2025
EDITION

# INDUSTRIAL CONNECTORS & CABLES

FINECABLES®

TO BOOST CUSTOMERS，SUCCESS

WITH OUR UTMOST ENTHUSIASM!

# INDUSTRIAL CONNECTORS & CABLES



www.finecables.com

# ABOUT FINECABLES

Finecables, established in 2003, is committed to being the world's leading manufacturer in industrial connectivity. At Finecables, we combine a strong customer focus along with a wealth of practical industry experience in order to provide our clients all around the world with reliable and innovative connectivity products as well as excellent customer service. Additionally, we continue to extend our self-owned brand @ Finecables® in various applications by developing customized products, which cover not only Push Pull connectors & industrial connectors, but also electronic interconnection and data networking. Our yearly production capacity is already more than 50 million PCS .

## PRODUCTS SERIES

Through continuous innovation and cutting edge research and development, we continue to expand our product portfolio vastly beyond wire harnesses and industrial connectors. Our current portfolio includes:

- Circular Connectors for industrial applications:(M5/M8/M9/M10/SPE/M12/M16/M20/7/8"/M23/RD24)
- Solenoid Valve Connectors for Pneumatic, hydraulic and electro-magnetic applications (Size A/B/C)
- Industrial I/O Connectors for data transmission network (USB/RJ45/Mini-Din/D-SUB/UHF)
- ISO-BUS Connectors and Junction Boxes for field-BUS networkcontrol (4/6/8-port M5/M8/M12 connectors with 7/8"/M23 connectors)
- Push Pull Connectors for Medical/Measuring & Testing Applications: Series B/K/T/S/00 Coaxial/E/L/Q/R/P
- NMEA 2000 cable connectors for marine & vessels
- Temperature Sensor Probe and Wire/Cable Harness
- Customized Solutions

## CORPORATE CULTURE

Finecables' corporate culture consists of passion, dedication and commitment. We are greatly enthusiastic about what we do and helping our customers realize their dreams and ambitions. We are committed to industrial connectivity and place great emphasis on building long-term partnerships and mutually beneficial relationships with both customers and suppliers. Very simply, we are your ideal business partner!

## R & D

With years of experience and technological acquisition and accumulation in industrial connectivity, the R&D team at Finecables utilizes powerful tooling ability and productivity to continue to raise the bar for industry standards. Our unique competitive advantage allows us to research and develop innovative total solutions and fully realize our customer's specific requirements and requests. So far, Finecables has developed over 20,000 kinds of connectors totally.

## QUALITY

Quality to finecables is what health is to human beings; the core competence of products shall base on its superior performance and reliable quality. Our commitments on "high quality" come from our team's comprehensive understanding in quality. We have designed strict audit and quality control process to assure ourselves and our suppliers are offering the best practice. ISO9001, ISO14001, ISO45001, ISO13485, ESD20.20 Certificate and NMEA, CE, UKCA, UL represent our quality value.

Finecables fulfills the core value of "Promptness, Excellence, Awareness, and Gratitude", by insisting our long-term partnership and win-win cooperation with both customers and suppliers.

## QUALIFICATION CERTIFICATE

# UL Certificates

UL(Underwriters Laboratories) is a safety consulting and certification company headquartered in the United States. UL , established in 1894, provides safety-related certification, validation, testing, inspection, auditing, advising and training services to a wide range of clients, including manufacturers, retailers, policymakers, regulators, service companies, and consumers.

Since 2007 when our Wiring Hareness were awarded UL certification, Finecables has applied many UL certificates to ensure our high-quality products are UL approved. For more detail, please visit at: http://database.ul.com

## UL Overview Table

| Company Name | Category Name | Link to File |
|---|---|---|
| DONGGUAN FINECABLES CO LTD | Appliance Wiring Material - Component | AVLV2.E343967 |
| DONGGUAN FINECABLES CO LTD | Appliance Wiring Material Certified for Canada - Component | AVLV8.E343967 |
| DONGGUAN FINECABLES CO LTD | Cable Assemblies and Fittings for Industrial Control and Signal Distribution | CYJV.E321413 |
| DONGGUAN FINECABLES CO LTD | Cable Assemblies and Fittings for Industrial Control and Signal Distribution - Component | CYJV2.E321413 |
| DONGGUAN FINECABLES CO LTD | Cable Assemblies and Fittings for Industrial Control and Signal Distribution Certified for Canada | CYJV7.E321413 |
| DONGGUAN FINECABLES CO LTD | Cable Assemblies and Fittings for Industrial Control and Signal Distribution Certified for Canada - Component | CYJV8.E321413 |
| DONGGUAN FINECABLES CO LTD | Communications Cable | DUZX.E466854 |
| DONGGUAN FINECABLES CO LTD | Communications Cable Certified for Canada | DUZX7.E466854 |
| DONGGUAN FINECABLES CO LTD | Connectors for Use in Data, Signal, Control and Power Applications - Component | ECBT2.E364453 |
| DONGGUAN FINECABLES CO LTD | Connectors for Use in Data, Signal, Control and Power Applications Certified for Canada - Component | ECBT8.E364453 |
| DONGGUAN FINECABLES CO LTD | Multi-point Interconnection Power Cable Assemblies for Industrial Machinery | PVVA.E496340 |
| DONGGUAN FINECABLES CO LTD | Multi- point Interconnection Power Cable Assemblies for Industrial Machinery Certified for Canada | PVVA7.E496340 |
| DONGGUAN FINECABLES CO LTD | Wiring Harnesses - Component | ZPFW2.E310634 |
| DONGGUAN FINECABLES CO LTD | Wiring Harnesses Certified for Canada - Component | ZPFW8.E310634 |
| FINECABLES INC | Connectors for Use in Data, Signal, Control and Power Applications - Component | ECBT2.E473386 |
| FINECABLES INC | Connectors for Use in Data, Signal, Control and Power Applications Certified for Canada - Component | ECBT8.E473386 |
| FINECABLES INC | Cable Assemblies and Fittings for Industrial Control and Signal Distribution | CYJV.E526268 |
| FINECABLES INC | Cable Assemblies and Fittings for Industrial Control and Signal Distribution Certified for Canada | CYJV7.E526268 |
| FINECABLES INC | Communications-, Audio/Video-, Data- and Other Signaling-circuit Accessories | DUXR.E532733 |
| FINECABLES INC | Communications-, Audio/Video-, Data- and Other Signaling-circuit Accessories Certified for Canada | DUXR7.E532733 |

# UL Certificates

CE marking is mandatory for certain product groups within the European Economic Area (EEA; the 28 member states of the EU plus EFTA countries Iceland, Norway, Switzerland and Liechtenstein, plus Turkey). The manufacturer of products made within the EEA and the importer of goods made in other countries must ensure that CE-marked goods conform to standards.

Finecables connectors below have been granted of CE EMC/LVD certification, comply with the Low Voltage Directive and the EMC Directive. For more details, please visit at http://www.bst-test.com/index.aspx

## CE Overview Table

| Product Series | Certificates | Certificate No. |
|---|---|---|
| M5 | CE-LVD | BST12110270Y-1SC-2 |
| M8 | CE-LVD | BTRL0707310407 |
| M8 | CE-LVD | BST12110268Y-1SC-2 |
| M12 | CE-LVD | BTRE0706071108 |
| 7/8" | CE-LVD | BST12110269Y-1SC-2 |
| M23 | CE-LVD | BST12060106Y-1ER-1 |
| M23 | CE-LVD | BST12060107Y-1SC-2 |
| RJ45 | CE-LVD | BST11070093Y-1SC-2 |
| Solenoid Valve | CE-LVD | BST10120464Y-1SR-2 |
| Solenoid Valve | CE-LVD | BST10120465Y-1SR-2 |
| Solenoid Valve | CE-LVD | BST10120466Y-1SR-2 |

# UL Certificates

## Table of UL Recognized Styles

| Single-conductor, thermoplastic insulation | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1007 | 1185 | 1533 | 1618 | 1789 | 10070 | 10515 | 10937 |
| 1015 | 1269 | 1569 | 1640 | 1870 | 10173 | 10533 | 10938 |
| 1037 | 1331 | 1571 | 1672 | 1950 | 10198 | 10602 | 11187 |
| 1061 | 1332 | 1589 | 1674 | 1987 | 10250 | 10603 | 11193 |
| 1095 | 1354 | 1598 | 1691 | 10005 | 10368 | 10795 | |
| 1122 | 1365 | 1617 | 1728 | 10064 | 10449 | 10800 | |
| 3132 | 3135 | 3173 | 3302 | 3321 | 3385 | 3386 | |

| Multiple-conductor, thermoplastic insulation | | | | | | | |
|---|---|---|---|---|---|---|---|
| 2092 | 2789 | 20256 | 20558 | 20936 | 21140 | 21315 | 21456 |
| 2093 | 2791 | 20276 | 20563 | 20937 | 21142 | 21316 | 21457 |
| 2095 | 2835 | 20279 | 20567 | 20938 | 21143 | 21317 | 21458 |
| 2096 | 2838 | 20280 | 20604 | 20939 | 21144 | 21318 | 21462 |
| 2101 | 2841 | 20281 | 20617 | 20940 | 21149 | 21319 | 21466 |
| 2102 | 2844 | 20292 | 20618 | 20948 | 21161 | 21320 | 21468 |
| 2103 | 2845 | 20308 | 20625 | 20955 | 21165 | 21322 | 21469 |
| 2127 | 2851 | 20317 | 20626 | 20963 | 21183 | 21323 | 21484 |
| 2128 | 2084 | 20318 | 20640 | 20968 | 21184 | 21324 | 21498 |
| 2129 | 2877 | 20327 | 20694 | 20978 | 21198 | 21325 | 21503 |
| 2405 | 2919 | 20328 | 20698 | 20979 | 21223 | 21326 | 21509 |
| 2464 | 2951 | 20329 | 20710 | 21002 | 21238 | 21327 | 21515 |
| 2468 | 2960 | 20330 | 20724 | 21007 | 21252 | 21328 | 21516 |
| 2493 | 2969 | 20346 | 20730 | 21016 | 21253 | 21329 | 21517 |
| 2516 | 2990 | 20350 | 20733 | 21029 | 21284 | 21330 | 21518 |
| 2517 | 20050 | 20351 | 20745 | 21030 | 21285 | 21371 | 21520 |
| 2547 | 20057 | 20352 | 20806 | 21031 | 21286 | 21381 | 21556 |
| 2552 | 20080 | 20353 | 20820 | 21032 | 21287 | 21387 | 21557 |
| 2562 | 20084 | 20358 | 20841 | 21060 | 21292 | 21388 | 21565 |
| 2576 | 20095 | 20368 | 20842 | 21064 | 21293 | 21394 | 21572 |
| 2587 | 20137 | 20369 | 20843 | 21080 | 21294 | 21408 | 21573 |
| 2592 | 20139 | 20379 | 20844 | 21083 | 21296 | 21409 | 21576 |
| 2598 | 20152 | 20387 | 20850 | 21088 | 21303 | 21411 | 21532 |
| 2614 | 20197 | 20390 | 20851 | 21089 | 21304 | 21412 | 21633 |
| 2651 | 20200 | 20410 | 20854 | 21099 | 21305 | 21414 | 21686 |
| 2655 | 20233 | 20411 | 20855 | 21100 | 21306 | 21415 | 21687 |
| 2661 | 20234 | 20413 | 20862 | 21101 | 21307 | 21416 | 21697 |
| 2662 | 20235 | 20417 | 20863 | 21118 | 21308 | 21445 | 21705 |
| 2678 | 20236 | 20445 | 20866 | 21119 | 21309 | 21451 | 21707 |
| 2717 | 20251 | 20475 | 20868 | 21120 | 21310 | 21452 | 21714 |
| 2725 | 20253 | 20512 | 20886 | 21126 | 21311 | 21453 | 21715 |
| 2733 | 20254 | 20549 | 20904 | 21127 | 21313 | 21454 | 21741 |
| 2785 | 20255 | 20554 | 20911 | 21139 | 21314 | 21455 | |

| Multiple-conductor, communications cables: | | | | |
|---|---|---|---|---|
| CMP | CMR | CMG | CM | CMX |

# Applications

Finecables truly understands the cost, time and quality is important to customers. Our customized solutions and one-stop services will help you reach your objective by reducing the installation time of products by 20% to 80%, field assembly labor costs for numerous application fields: Sensors & Industrial Automation Control, Telecommunications & Network, HVAC & Refrigeration, LED Lighting, Railway Transportation System, Marine & Ship Engineering, Medical Devices, Renewable Energy, Measuring & Testing and Package conveyor and so on.

Industrial
Automation & Sensors

Drone

Package Conveyor &
Logistic System

Test Measurement

Elevator

Telecommunication System

LED Display & Lighting

Audio Video & Broadcasting

Renewable Energy

Automobile

Medical Healthy

Railway Transportation System

HVAC & Refrigeration

Marine & Ships Engineering

Agricultural Machinery

Food&BeverageIndustry

# COMPREHENSIVE AND DIVERSE CONNECTOR FOR SIGNALS DATA & POWER TRANSMISSION

# How to find the product you need

## ■ Step1: Image Index (Next page)

| Method 1. | Method 2. |
|---|---|
| 1.Series | 1.Series |
| 2.Name index | 2.Image |
| 3.Step 2 | 3.Page number |
| | 4.Step 3 |

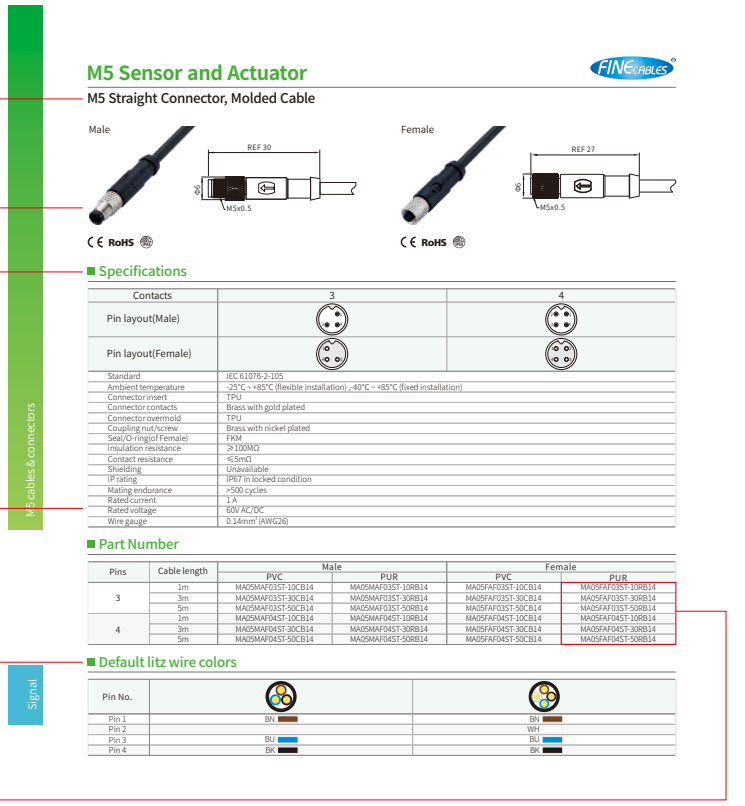
## ■ Step 2: Name Index

Name
Pins
Coding
Pin layout
Page

| | | | |
|---|---|---|---|
| Coding | Available Coding | A-coding | |
| Specifications | Rated Current | 4A | |
| | Voltage | 60V | |
| | Wire Gauge / size | 26AWG / 0.14mm² | |
| Pin layout | Pin layout | Male | Female |
| Pins | | 03 Pins | |
| Name | Male Molded Cable Straight | 046 | 046 |
| Page | | | |

## ■ Step 3: Product details page

Product description
Connectors
General information
Electrical data & Mechanical data
Default wire colors
Part No. Refer How to Order Part Number



# MAIN PRODUCT AT A GLANCE

**M5**
Cables & connectors
PAGE 043~053

RoHS
Male
M5 A-Coding 046
Locking type: Fix screw
Mounting type: Straight

RoHS
Female
M5A-Coding 046
Locking type: Fix screw
Mounting type: Straight

RoHS
Male
M5 A-Coding 047
Locking type: Fix screw
Mounting type: Straight

RoHS
Female
M5 A-Coding 047
Locking type: Fix screw
Mounting type: Straight

RoHS
Male
M5 A-Coding 048
Locking type: Fix screw
Mounting type: Right angled

RoHS
Female
M5 A-Coding 048
Locking type: Fix screw
Mounting type: Right angled

RoHS
Male
M5 A-Coding 049
Locking type: Fix screw(Solder)
Mounting type: Front fastened

RoHS
Female
M5 A-Coding 049
Locking type: Fix screw(Solder)
Mounting type: Front fastened

RoHS
Male
M5 A-Coding 050
Locking type: Fix screw(Solder)
Mounting type: Rear fastened

RoHS
Female
M5 A-Coding 050
Locking type: Fix screw(Solder)
Mounting type: Rear fastened

RoHS
Male
M5 A-Coding 051
Locking type: Fix screw(PCB)
Mounting type: Front fastened

RoHS
Female
M5 A-Coding 051
Locking type: Fix screw(PCB)
Mounting type: Front fastened

RoHS
Male
M5 A-Coding 052
Locking type: Fix screw(PCB)
Mounting type: Front fastened

RoHS
Female
M5 A-Coding 052
Locking type: Fix screw(PCB)
Mounting type: Front fastened

for Male

M5 Protection Cap 053
Locking type: Plastic Fix screw
Mounting type:

for Female

M5 Protection Cap 053
Locking type: Plastic Fix screw
Mounting type:

**M8**
Cables & connectors
PAGE 055~115

RoHS
Male
M8 A-Coding 059
Locking type: Fix screw
Mounting type: Straight

RoHS
Female
M8 A-Coding 059
Locking type: Fix screw
Mounting type: Straight

RoHS
Female
M8 A-Coding 060
Locking type: Plastic Fix screw
Mounting type: Straight

RoHS
Male
M8 A-Coding 061
Locking type: Fix screw
Mounting type: Straight

RoHS
Female
M8 A-Coding 061
Locking type: Fix screw
Mounting type: Straight

RoHS
Male
M8 A-Coding 062
Locking type: Snap-in
Mounting type: Straight

RoHS
Female
M8 A-Coding 062
Locking type: Snap-in
Mounting type: Straight

RoHS
Male
M8 A-Coding 063
Locking type: Fix screw
Mounting type: Right angled

RoHS
Female
M8 A-Coding 063
Locking type: Fix screw
Mounting type: Right angled

RoHS
Female
M8 A-Coding 064
Locking type: Plastic Fix screw
Mounting type: Right angled

RoHS
Male
M8 A-Coding 065
Locking type: Fix screw
Mounting type: Right angled

RoHS
Female
M8 A-Coding 065
Locking type: Fix screw
Mounting type: Right angled

# MAIN PRODUCT AT A GLANCE

RoHS
Male

M8 A-Coding 066
Locking type: Snap-in
Mounting type: Right angled

RoHS
Female

M8 A-Coding 066
Locking type: Snap-in
Mounting type: Right angled

RoHS
Female

M8 A-Coding 067
Locking type: Fix screw
Mounting type: Right angled

RoHS
Male

M8 A-Coding 068
Locking type: Fix screw(Thin type)
Mounting type: Straight

RoHS
Female

M8 A-Coding 068
Locking type: Fix screw(Thin type)
Mounting type: Straight

RoHS
Male

M8 A-Coding 069
Locking type: Fix screw(Solder)
Mounting type: Straight

RoHS
Female

M8 A-Coding 069
Locking type: Fix screw(Solder)
Mounting type: Straight

RoHS
Male

M8 A-Coding 070
Locking type: Fix screw(Screw joint)
Mounting type: Straight

RoHS
Female

M8 A-Coding 070
Locking type: Fix screw(Screw joint)
Mounting type: Straight

RoHS
Male

M8 A-Coding 071
Locking type: Fix screw(Screw joint)
Mounting type: Right angled

RoHS
Female

M8 A-Coding 071
Locking type: Fix screw(Screw joint)
Mounting type: Right angled

RoHS
Male

M8 A-Coding 072
Locking type: Fix screw(Solder)
Mounting type: Right angled

RoHS
Female

M8 A-Coding 072
Locking type: Fix screw(Solder)
Mounting type: Right angled

RoHS
Male

M8 A-Coding 073
Locking type: Fix screw(Screw joint)
Mounting type: Straight

RoHS
Female

M8 A-Coding 073
Locking type: Fix screw(Screw joint)
Mounting type: Straight

RoHS
Male

M8 A-Coding 074
Locking type: Fix screw(Solder)
Mounting type: Front fastened

RoHS
Female

M8 A-Coding 074
Locking type: Fix screw(Solder)
Mounting type: Front fastened

RoHS
Male

M8 A-Coding 075
Locking type: Fix screw(Solder)
Mounting type: Rear fastened

RoHS
Female

M8 A-Coding 075
Locking type: Fix screw(Solder)
Mounting type: Rear fastened

RoHS
Male

M8 A-Coding 076
Locking type: Snap-in(Solder)
Mounting type: Front fastened

RoHS
Male

M8 A-Coding 076
Locking type: Snap-in(Solder)
Mounting type: Rear fastened

RoHS
Male

M8 A-Coding 077
Locking type: Snap-in(Solder)
Mounting type: Rear fastened

RoHS
Male

M8 A-Coding 078
Locking type: Fix screw(PCB)
Mounting type: Front fastened

RoHS
Female

M8 A-Coding 078
Locking type: Fix screw(PCB)
Mounting type: Front fastened

RoHS
Male

M8 A-Coding 079
Locking type: Fix screw(PCB)
Mounting type: Front fastened

RoHS
Male

M8 A-Coding 080
Locking type: Fix screw
Mounting type: Front fastened

RoHS
Female

M8 A-Coding 080
Locking type: Fix screw
Mounting type: Front fastened

RoHS
Male

M8 A-Coding 081
Locking type: Fix screw
Mounting type: Front fastened

RoHS
Female

M8 A-Coding 081
Locking type: Fix screw
Mounting type: Front fastened

RoHS
Male

M8 A-Coding 082
Locking type: SMT Type
Mounting type: Straight

# MAIN PRODUCT AT A GLANCE

RoHS
Female

M8 A-Coding 082
Locking type: SMT Type
Mounting type: Straight

RoHS
Male

M8 A-Coding 083
Locking type: Fix screw
Mounting type: Straight

RoHS
Male

M8 B-Coding 084
Locking type: Fix screw
Mounting type: Straight

RoHS
Female

M8 B-Coding 084
Locking type: Fix screw
Mounting type: Straight

RoHS
Female

M8 B-Coding 085
Locking type: Plastic Fix screw
Mounting type: Straight

RoHS
Male

M8 B-Coding 086
Locking type: Fix screw
Mounting type: Straight

RoHS
Female

M8 B-Coding 086
Locking type: Fix screw
Mounting type: Straight

RoHS
Male

M8 B-Coding 087
Locking type: Fix screw
Mounting type: Right angled

RoHS
Female

M8 B-Coding 087
Locking type: Fix screw
Mounting type: Right angled

RoHS
Female

M8 B-Coding 088
Locking type: Plastic Fix screw
Mounting type: Right angled

RoHS
Male

M8 B-Coding 089
Locking type: Fix screw
Mounting type: Right angled

RoHS
Female

M8 B-Coding 089
Locking type: Fix screw
Mounting type: Right angled

RoHS
Male

M8 B-Coding 090
Locking type: Fix screw(Solder)
Mounting type: Straight

RoHS
Female

M8 B-Coding 090
Locking type: Fix screw(Solder)
Mounting type: Straight

RoHS
Male

M8 B-Coding 091
Locking type: Fix screw(Solder)
Mounting type: Right angled

RoHS
Female

M8 B-Coding 091
Locking type: Fix screw(Solder)
Mounting type: Right angled

RoHS
Male

M8 B-Coding 092
Locking type: Fix screw(Solder)
Mounting type: Front fastened

RoHS
Female

M8 B-Coding 092
Locking type: Fix screw(Solder)
Mounting type: Front fastened

RoHS
Male

M8 B-Coding 093
Locking type: Fix screw(Solder)
Mounting type: Rear fastened

RoHS
Female

M8 B-Coding 093
Locking type: Fix screw(Solder)
Mounting type: Rear fastened

RoHS
Male

M8 B-Coding 094
Locking type: Fix screw(PCB)
Mounting type: Front fastened

RoHS
Female

M8 B-Coding 094
Locking type: Fix screw(PCB)
Mounting type: Front fastened

RoHS
Male

M8 B-Coding 095
Locking type: Fix screw(PCB)
Mounting type: Front fastene

RoHS
Male

M8 B-Coding 096
Locking type: Fix screw
Mounting type: Front fastened

RoHS
Female

M8 B-Coding 096
Locking type: Fix screw
Mounting type: Front fastened

RoHS
Male

M8 B-Coding 097
Locking type: Fix screw
Mounting type: Front fastened

RoHS
Female

M8 B-Coding 097
Locking type: Fix screw
Mounting type: Front fastened

RoHS
Male

M8 B-Coding 098
Locking type: Fix screw
Mounting type: Straight

RoHS
Male

M8 D-Coding 099
Locking type: Fix screw
Mounting type: Straight

RoHS
Female

M8 D-Coding 099
Locking type: Fix screw
Mounting type: Straight

# MAIN PRODUCT AT A GLANCE

CE RoHS
Male

M8 D-Coding 100
Locking type: Fix screw
Mounting type: Straight

CE RoHS
Female

M8 D-Coding 100
Locking type: Fix screw
Mounting type: Straight

CE RoHS
Male

M8 D-Coding 101
Locking type: Fix screw
Mounting type: Right angled

CE RoHS
Female

M8 D-Coding 101
Locking type: Fix screw
Mounting type: Right angled

CE RoHS
Male

M8 D-Coding 102
Locking type: Fix screw(Solder)
Mounting type: Front fastened

CE RoHS
Female

M8 D-Coding 102
Locking type: Fix screw(Solder)
Mounting type: Front fastened

Male

M8 P-coding 103
Locking type: Fix screw
Mounting type: Front fastened

Female

M8 P-coding 103
Locking type: Fix screw
Mounting type: Front fastened

Female

M8 P-coding 104
Locking type: Fix screw
Mounting type: Rear fastened

Male

M8 P-coding 105
Locking type: Fix screw
Mounting type: Front fastened

Female

M8 P-coding 105
Locking type: Fix screw
Mounting type: Front fastened

CE RoHS
Male-Female

M8 Adapter 106
Locking type: Fix screw
Mounting type: Straight

RoHS
Male -2*Female

M8 Splitter 107
Locking type: Fix screw
Mounting type: Y-Splitter

RoHS
Male-Female

M8 Splitter 108
Locking type: Fix screw
Mounting type: Right angled

for Female

M8 Protection Cap 109
Locking type: Fix screw
Mounting type:

for Female

M8 Protection Cap 109
Locking type: Fix screw
Mounting type:

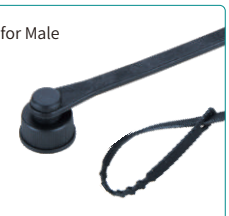
for Male

M8 Protection Cap 110
Locking type: Plastic Fix screw
Mounting type:

for Female

M8 Protection Cap 110
Locking type: Plastic Fix screw
Mounting type:

for Male



M8 Protection Cap 111
Locking type: Plastic Fix screw
Mounting type:

for Female

M8 Protection Cap 111
Locking type: Plastic Fix screw
Mounting type:

for Male

M8 Protection Cap 112
Locking type: Plastic Fix screw
Mounting type:

for Female

M8 Protection Cap 112
Locking type: Plastic Fix screw
Mounting type:

for Male

M8 Protection Cap 113
Locking type: Plastic Fix screw
Mounting type:

for Female

M8 Protection Cap 113
Locking type: Plastic Fix screw
Mounting type:

M9
Cables & connectors
PAGE 117~125

RoHS
Male

M9 A-Coding 120
Locking type: Fix screw
Mounting type: Straight

RoHS
Female

M9 A-Coding 120
Locking type: Fix screw
Mounting type: Straight

RoHS
Male

M9 A-Coding 121
Locking type: Fix screw(Solder)
Mounting type: Rear fastened

RoHS
Female

M9 A-Coding 121
Locking type: Fix screw(Solder)
Mounting type: Rear fastened

RoHS
Female

M9 A-Coding 122
Locking type: Fix screw(Solder)
Mounting type: Front fastened

# MAIN PRODUCT AT A GLANCE

RoHS
Male

M9 A-Coding 123
Locking type: Fix screw(PCB)
Mounting type: Front fastened

RoHS
Female

M9 A-Coding 123
Locking type: Fix screw(PCB)
Mounting type: Front fastened

RoHS
Female

M9 A-Coding 124
Locking type: Fix screw(PCB)
Mounting type: Front fastened

for Male

M9 Protection Cap 125
Locking type: Fix screw
Mounting type:

for Male

M9 Protection Cap 125
Locking type: Fix screw
Mounting type:

for Female

M9 125
Locking type: Fix screw
Mounting type:

M10
Cables & connectors
PAGE 127~134

RoHS
Male

M10 A-Coding 130
Locking type: Snap-in
Mounting type: Straight

RoHS
Female

M10 A-Coding 130
Locking type: Snap-in
Mounting type: Straight

RoHS
Male

M10 A-Coding 131
Locking type: Snap-in(Solder)
Mounting type: Rear fastened

RoHS
Female

M10 A-Coding 131
Locking type: Snap-in(Solder)
Mounting type: Rear fastened

RoHS
Male

M10 A-Coding 132
Locking type: Snap-in(PCB)
Mounting type: Rear fastened

RoHS
Female

M10 A-Coding 132
Locking type: Snap-in(PCB)
Mounting type: Rear fastened

RoHS
Male & Female

M10 A-Coding 133
Locking type: Snap-in
Mounting type: T-type

for Female

M10 Protection Cap 134
Locking type: Snap-in
Mounting type:

SPE
Cables & connectors
PAGE 135~150

RoHS
Male

SPE 6P-S8 138
Locking type: Snap-in
Mounting type: Straight

RoHS
Male

SPE 6P-P8 139
Locking type: Push Pull
Mounting type: Straight

RoHS
Female

SPE M8 Hybrid 140
Locking type: Fixed screw
Mounting type: Straight

RoHS
Male

SPE M8 2P 141
Locking type: Fix screw
Mounting type: Straight

RoHS
Male

SPE M8 2P 142
Locking type: Fix screw
Mounting type: Straight

RoHS
Male

SPE M8 2P 143
Locking type: Fix screw
Mounting type: Straight

RoHS
Male

SPE 144
Locking type: Latch
Mounting type: Straight

CE RoHS
Female

SPE M8 2P 145
Locking type: Fix screw
Mounting type: Rear fastened

CE RoHS
Female

SPE 6J-S8 146
Locking type: Snap-in
Mounting type: Rear fastened

CE RoHS
Female

SPE 6J-P8 147
Locking type: Push Pull
Mounting type: Rear fastened

CE RoHS
Female

SPE M12 2P 148
Locking type: Fix screw
Mounting type: Rear fastened

CE RoHS
Male

SPE M8 Hybrid 149
Locking type: Fix screw
Mounting type: Front fastened

CE RoHS
Female

SPE M8 Hybrid 149
Locking type: Fix screw
Mounting type: Front fastened

CE RoHS
Female

SPE 150
Locking type: Latch
Mounting type: Front fastened

# MAIN PRODUCT AT A GLANCE

M12

Cables & connectors

PAGE 151~416

Male

M12 A-Coding 161

Locking type: Fix screw
Mounting type: Straight

Female

M12 A-Coding 161

Locking type: Fix screw
Mounting type: Straight

Male

M12 A-Coding 162

Locking type: Fix screw
Mounting type: Straight

Female

M12 A-Coding 162

Locking type: Fix screw
Mounting type: Straight

Male

M12 A-Coding 163

Locking type: Plastic Fix screw
Mounting type: Straight

Female

M12 A-Coding 163

Locking type: Plastic Fix screw
Mounting type: Straight

Male

M12 A-Coding 164

Locking type: Fix screw
Mounting type: Right angled

Female

M12 A-Coding 164

Locking type: Fix screw
Mounting type: Right angled

Male

M12 A-Coding 165

Locking type: Fix screw
Mounting type: Right angled

Female

M12 A-Coding 165

Locking type: Fix screw
Mounting type: Right angled

Male

M12 A-Coding 166

Locking type: Plastic Fix screw
Mounting type: Right angled

Female

M12 A-Coding 166

Locking type: Plastic Fix screw
Mounting type: Right angled

Male

M12 A-Coding 167

Locking type: Push Pull
Mounting type: Straight

Male

M12 A-Coding 168

Locking type: Fix screw
Mounting type: Straight

Female

M12 A-Coding 168

Locking type: Fix screw
Mounting type: Straight

Female

M12 A-Coding 169

Locking type: Fix screw
Mounting type: Right angled

Male

M12 A-Coding 170

Locking type: Fix screw
Mounting type: Straight

Female

M12 A-Coding 170

Locking type: Fix screw
Mounting type: Straight

Male

M12 A-Coding 171

Locking type: Fix screw
Mounting type: Right angled

Female

M12 A-Coding 171

Locking type: Fix screw
Mounting type: Right angled

Male

M12 A-Coding 172

Locking type: Snap-in
Mounting type: Straight

Female

M12 A-Coding 172

Locking type: Snap-in
Mounting type: Straight

Male

M12 B-Coding 173

Locking type: Fix screw
Mounting type: Straight

Female

M12 B-Coding 173

Locking type: Fix screw
Mounting type: Straight

Male

M12 B-Coding 174

Locking type: Fix screw
Mounting type: Straight

Female

M12 B-Coding 174

Locking type: Fix screw
Mounting type: Straight

Male

M12 B-Coding 175

Locking type: Plastic Fix screw
Mounting type: Straight

Female

M12 B-Coding 175

Locking type: Plastic Fix screw
Mounting type: Straight

Male

M12 B-Coding 176

Locking type: Fix screw
Mounting type: Right angled

# MAIN PRODUCT AT A GLANCE

Female

M12 B-Coding 176

Locking type: Fix screw
Mounting type: Right angled

Male

M12 B-Coding 177

Locking type: Fix screw
Mounting type: Right angled

Female

M12 B-Coding 177

Locking type: Fix screw
Mounting type: Right angled

Male

M12 B-Coding 178

Locking type: Plastic Fix screw
Mounting type: Right angled

Female

M12 B-Coding 178

Locking type: Plastic Fix screw
Mounting type: Right angled

Male

M12 B-Coding 179

Locking type: Push Pull
Mounting type: Straight

Male

M12 B-Coding 180

Locking type: Fix screw
Mounting type: Straight

Female

M12 B-Coding 180

Locking type: Fix screw
Mounting type: Straight

Male

M12 B-Coding 181

Locking type: Fix screw
Mounting type: Right angled

Female

M12 B-Coding 181

Locking type: Fix screw
Mounting type: Right angled

Male

M12 B-Coding 182

Locking type: Snap-in
Mounting type: Straight

Female

M12 B-Coding 182

Locking type: Snap-in
Mounting type: Straight

Male

M12 Quick-lock 183

Locking type: Quick-lock
Mounting type: Straight

Female

M12 Quick-lock 183

Locking type: Quick-lock
Mounting type: Straight

Female

M12 Quick-lock 184

Locking type: Quick-lock
Mounting type: Straight

Male

M12 C-Coding 185

Locking type: Fix screw
Mounting type: Straight

Female

M12 C-Coding 185

Locking type: Fix screw
Mounting type: Straight

Male

M12 C-Coding 186

Locking type: Fix screw
Mounting type: Straight

Female

M12 C-Coding 186

Locking type: Fix screw
Mounting type: Straight

Male

M12 C-Coding 187

Locking type: Plastic Fix screw
Mounting type: Straight

Female

M12 C-Coding 187

Locking type: Plastic Fix screw
Mounting type: Straight

Male

M12 C-Coding 188

Locking type: Fix screw
Mounting type: Right angled

Female

M12 C-Coding 188

Locking type: Fix screw
Mounting type: Right angled

Male

M12 C-Coding 189

Locking type: Fix screw
Mounting type: Right angled

Female

M12 C-Coding 189

Locking type: Fix screw
Mounting type: Right angled

Male

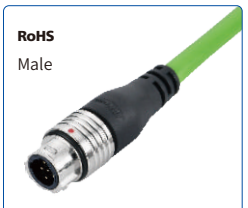
M12 C-Coding 190

Locking type: Plastic Fix screw
Mounting type: Right angled

Female

M12 C-Coding 190

Locking type: Plastic Fix screw
Mounting type: Right angled


Male

M12 C-Coding 191

Locking type: Push Pull
Mounting type: Straight

Male

M12 C-Coding 192

Locking type: Fix screw
Mounting type: Straight

Female

M12 C-Coding 192

Locking type: Fix screw
Mounting type: Straight

# MAIN PRODUCT AT A GLANCE

RoHS
Male

M12 C-Coding 193

Locking type: Fix screw
Mounting type: Straight

RoHS
Female

M12 C-Coding 193

Locking type: Fix screw
Mounting type: Straight

RoHS
Male

M12 C-Coding 194

Locking type: Fix screw
Mounting type: Straight

RoHS
Female

M12 C-Coding 194

Locking type: Fix screw
Mounting type: Straight

CE RoHS
Male

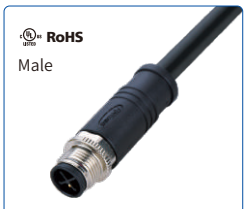
M12 M-Coding 195

Locking type: Fix screw
Mounting type: Straight

CE RoHS
Female

M12 M-Coding 195

Locking type: Fix screw
Mounting type: Straight



cULus RoHS
Male

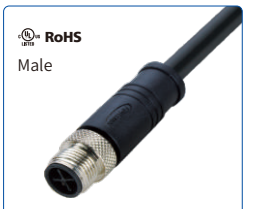
M12 S-Coding 196

Locking type: Fix screw
Mounting type: Straight

cULus RoHS
Female

M12 S-Coding 196

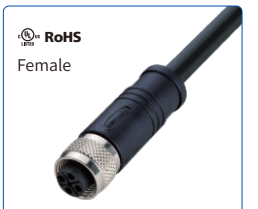
Locking type: Fix screw
Mounting type: Straight



cULus RoHS
Male

M12 S-Coding 197

Locking type: Fix screw
Mounting type: Straight



cULus RoHS
Female

M12 S-Coding 197

Locking type: Fix screw
Mounting type: Straight

cULus RoHS
Male

M12 S-Coding 198

Locking type: Fix screw
Mounting type: Straight

cULus RoHS
Female

M12 S-Coding 198

Locking type: Fix screw
Mounting type: Straight

cULus RoHS
Male

M12 S-Coding 199

Locking type: Fix screw
Mounting type: Right angled

cULus RoHS
Female

M12 S-Coding 199

Locking type: Fix screw
Mounting type: Right angled

cULus RoHS
Male

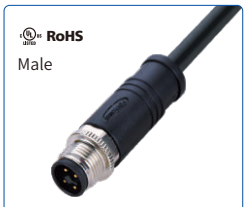
M12 S-Coding 200

Locking type: Fix screw
Mounting type: Right angled

cULus RoHS
Female

M12 S-Coding 200

Locking type: Fix screw
Mounting type: Right angled



cULus RoHS
Male

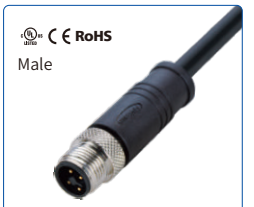
M12 T-Coding 201

Locking type: Fix screw
Mounting type: Straight

cULus CE RoHS
Female

M12 T-Coding 201

Locking type: Fix screw
Mounting type: Straight



cULus CE RoHS
Male

M12 T-Coding 202

Locking type: Fix screw
Mounting type: Straight

cULus CE RoHS
Female

M12 T-Coding 202

Locking type: Fix screw
Mounting type: Straight

CE RoHS
Male

M12 K-Coding 203

Locking type: Fix screw
Mounting type: Straight

CE RoHS
Female

M12 K-Coding 203

Locking type: Fix screw
Mounting type: Straight

cULus CE RoHS
Male

M12 L-Coding 204

Locking type: Fix screw
Mounting type: Straight

cULus CE RoHS
Female

M12 L-Coding 204

Locking type: Fix screw
Mounting type: Straight

cULus cULus CE RoHS
Male

M12 D-Coding 205

Locking type: Fix screw
Mounting type: Straight

cULus cULus CE RoHS
Female

M12 D-Coding 205

Locking type: Fix screw
Mounting type: Straight

cULus cULus CE RoHS
Male

M12 D-Coding 206

Locking type: Fix screw
Mounting type: Straight

cULus cULus CE RoHS
Female

M12 D-Coding 206

Locking type: Fix screw
Mounting type: Straight

cULus cULus CE RoHS
Male

M12 D-Coding 207

Locking type: Plastic Fix screw
Mounting type: Straight

cULus cULus CE RoHS
Female

M12 D-Coding 207

Locking type: Plastic Fix screw
Mounting type: Straight

# MAIN PRODUCT AT A GLANCE

Male

M12 D-Coding 208

Locking type: Fix screw
Mounting type: Right angled

Female

M12 D-Coding 208

Locking type: Fix screw
Mounting type: Right angled

Male

M12 D-Coding 209

Locking type: Fix screw
Mounting type: Right angled

Female

M12 D-Coding 209

Locking type: Fix screw
Mounting type: Right angled

Male

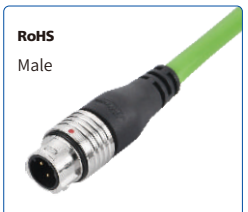
M12 D-Coding 210

Locking type: Plastic Fix screw
Mounting type: Right angled

Female

M12 D-Coding 210

Locking type: Plastic Fix screw
Mounting type: Right angled



Male

M12 D-Coding 211

Locking type: Push Pull
Mounting type: Straight

Male

M12 D-Coding 212

Locking type: Fix screw
Mounting type: Straight

Female

M12 D-Coding 212

Locking type: Fix screw
Mounting type: Straight

Male

M12 D-Coding 213

Locking type: Fix screw
Mounting type: Right angled

Female

M12 D-Coding 213

Locking type: Fix screw
Mounting type: Right angled

Male

M12 D-Coding 214

Locking type: Snap-in
Mounting type: Straight

Female

M12 D-Coding 214

Locking type: Snap-in
Mounting type: Straight

Male

M12 X-Coding 215

Locking type: Fix screw
Mounting type: Straight

Female

M12 X-Coding 215

Locking type: Fix screw
Mounting type: Straight

Female

M12 X-Coding 216

Locking type: Fix screw
Mounting type: Straight

Male

M12 X-Coding 217

Locking type: Fix screw
Mounting type: Right angled

Female

M12 X-Coding 217

Locking type: Fix screw
Mounting Right angled

Male

M12 Y1-Coding 218

Locking type: Fix screw
Mounting type: Straight

Female

M12 Y1-Coding 218

Locking type: Fix screw
Mounting type: Straight

Male

M12 Y1-Coding 219

Locking type: Fix screw
Mounting type: Right angled

Female

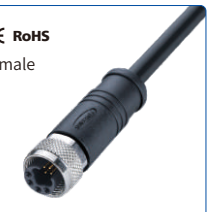
M12 Y1-Coding 219

Locking type: Fix screw
Mounting type: Right angled

Male

M12 Y2-Coding 220

Locking type: Fix screw
Mounting type: Straight



Female

M12 Y2-Coding 220

Locking type: Fix screw
Mounting type: Straight

Male

M12 Y2-Coding 221

Locking type: Fix screw
Mounting type: Right angled

Female

M12 Y2-Coding 221

Locking type: Fix screw
Mounting type: Right angled

Male

M12Y3-Coding 222

Locking type: Fix screw
Mounting type: Straight

Female

M12Y3-Coding 222

Locking type: Fix screw
Mounting type: Straight

Male

M12 Y3-Coding 223

Locking type: Fix screw
Mounting type: Right angled

Female

M12 Y3-Coding 223

Locking type: Fix screw
Mounting type: Right angled

# MAIN PRODUCT AT A GLANCE

Male

M12 Y4-Coding 224

Locking type: Fix screw
Mounting type: Straight

Female

M12 Y4-Coding 224

Locking type: Fix screw
Mounting type: Straight

Male

M12 Y4-Coding 225

Locking type: Fix screw
Mounting type: Right angled

Female

M12 Y4-Coding 225

Locking type: Fix screw
Mounting type: Right angled

Male

M12 A-Coding 226

Locking type: Fix screw(Solder)
Mounting type: Straight

Female

M12 A-Coding 226

Locking type: Fix screw(Solder)
Mounting type: Straight

Male

M12 A-Coding 227

Locking type: Fix screw(Solder)
Mounting type: Right angled

Female

M12 A-Coding 227

Locking type: Fix screw(Solder)
Mounting type: Right angled

Male

M12 A-Coding 228

Locking type: Fix screw(Screw joint)
Mounting type: Straight

Female

M12 A-Coding 228

Locking type: Fix screw(Screw joint)
Mounting type: Straight

Male

M12 A-Coding 229

Locking type: Push-pull
Mounting type: Straight

Male

M12 A-Coding 230

Locking type: Fix screw(Crimp)
Mounting type: Straight

Female

M12 A-Coding 230

Locking type: Fix screw(Crimp)
Mounting type: Straight

Male

M12 A-Coding 231

Locking type: Fix screw(Piercing)
Mounting type: Straight

Female

M12 A-Coding 231

Locking type: Fix screw(Piercing)
Mounting type: Straight

Male

M12 A-Coding 232

Locking type: Fix screw(Screw joint)
Mounting type: Right angled

Female

M12 A-Coding 232

Locking type: Fix screw(Screw joint)
Mounting type: Right angled

Male

M12 A-Coding 233

Locking type: Fix screw(Screw joint)
Mounting type: Straight

Female

M12 A-Coding 233

Locking type: Fix screw(Screw joint)
Mounting type: Straight

Male

M12 A-Coding 234

Locking type: Fix screw(Screw joint)
Mounting type: Straight

Female

M12 A-Coding 234

Locking type: Fix screw(Screw joint)
Mounting type: Straight

Male

M12 A-Coding 235

Locking type: Fix screw(Spring clamp)
Mounting type: Straight

Female

M12 A-Coding 235

Locking type: Fix screw(Spring clamp)
Mounting type: Straight

Male

M12 A-Coding 236

Locking type: Plastic Fix screw(Screw joint)
Mounting type: Straight

Female

M12 A-Coding 236

Locking type: Plastic Fix screw(Screw joint)
Mounting type: Straight

Male

M12 A-Coding 237

Locking type: Fix screw(Screw joint)
Mounting type: Right angled

Female

M12 A-Coding 237

Locking type: Fix screw(Screw joint)
Mounting type: Right angled

Male

M12 A-Coding 238

Locking type: Fix screw(Screw joint)
Mounting type: Right angled

Female

M12 A-Coding 238

Locking type: Fix screw(Screw joint)
Mounting type: Right angled

Male

M12 A-Coding 239

Locking type: Plastic Fix screw
Mounting type: Right angled

# MAIN PRODUCT AT A GLANCE

Female

**M12 A-Coding** 239

Locking type: Plastic Fix screw
Mounting type: Right angled

Male

**M12 B-Coding** 240

Locking type: Fix screw(Solder)
Mounting type: Straight

Female

**M12 B-Coding** 240

Locking type: Fix screw(Solder)
Mounting type: Straight

Male

**M12 B-Coding** 241

Locking type: Fix screw(Solder)
Mounting type: Right angled

Female

**M12 B-Coding** 241

Locking type: Fix screw(Solder)
Mounting type: Right angled

Male

**M12 B-Coding** 242

Locking type: Fix screw(Screw joint)
Mounting type: Straight

Female

**M12 B-Coding** 242

Locking type: Fix screw(Screw joint)
Mounting type: Straight

Male

**M12 B-Coding** 243

Locking type: Fix screw(Crimp)
Mounting type: Straight

Female

**M12 B-Coding** 243

Locking type: Fix screw(Crimp)
Mounting type: Straight

Male

**M12 B-Coding** 244

Locking type: Fix screw(Screw joint)
Mounting type: Right angled

Female

**M12 B-Coding** 244

Locking type: Fix screw(Screw joint)
Mounting type: Right angled

Male

**M12 B-Coding** 245

Locking type: Fix screw(Screw joint)
Mounting type: Straight

Female

**M12 B-Coding** 245

Locking type: Fix screw(Screw joint)
Mounting type: Straight

Male

**M12 B-Coding** 246

Locking type: Fix screw(Screw joint)
Mounting type: Straight

Female

**M12 B-Coding** 246

Locking type: Fix screw(Screw joint)
Mounting type: Straight

Male

**M12 B-Coding** 247

Locking type: Fix screw(Spring clamp)
Mounting type: Straight

Female

**M12 B-Coding** 247

Locking type: Fix screw(Spring clamp)
Mounting type: Straight

Male

**M12 B-Coding** 248

Locking type: Plastic Fix screw(Screw joint)
Mounting type: Straight

Female

**M12 B-Coding** 248

Locking type: Plastic Fix screw(Screw joint)
Mounting type: Straight

Male

**M12 B-Coding** 249

Locking type: Fix screw(Screw joint)
Mounting type: Right angled

Female

**M12 B-Coding** 249

Locking type: Fix screw(Screw joint)
Mounting type: Right angled

Male

**M12 B-Coding** 250

Locking type: Fix screw(Screw joint)
Mounting type: Right angled

Female

**M12 B-Coding** 250

Locking type: Fix screw(Screw joint)
Mounting type: Right angled

Male

**M12 B-Coding** 251

Locking type: Plastic Fix screw
Mounting type: Right angled

Female

**M12 B-Coding** 251

Locking type: Plastic Fix screw
Mounting type: Right angled

Male

**M12 Quick-lock** 252

Locking type: Quick-lock(Solder)
Mounting type: Plastic mounting

Female

**M12 Quick-lock** 252

Locking type: Quick-lock(Solder)
Mounting type: Plastic mounting

Female

**M12 Quick-lock** 253

Locking type: Quick-lock(Solder)
Mounting type: Plastic mounting

Male

**M12 C-Coding** 254

Locking type: Fix screw
Mounting type: Straight

Female

**M12 C-Coding** 254

Locking type: Fix screw
Mounting type: Straight

# MAIN PRODUCT AT A GLANCE

CE RoHS
Male

M12 C-Coding 255
Locking type: Fix screw
Mounting type: Right angled

CE RoHS
Female

M12 C-Coding 255
Locking type: Fix screw
Mounting type: Right angled

CE RoHS
Male

M12 S-Coding 256
Locking type: Fix screw
Mounting type: Straight

CE RoHS
Female

M12 S-Coding 256
Locking type: Fix screw
Mounting type: Straight

CE RoHS
Male

M12 S-Coding 257
Locking type: Fix screw
Mounting type: Right angled

CE RoHS
Female

M12 S-Coding 257
Locking type: Fix screw
Mounting type: Right angled

CE RoHS
Male

M12 T-Coding 258
Locking type: Fix screw
Mounting type: Straight

CE RoHS
Female

M12 T-Coding 258
Locking type: Fix screw
Mounting type: Straight

CE RoHS
Male

M12 T-Coding 259
Locking type: Fix screw
Mounting type: Right angled

CE RoHS
Female

M12 T-Coding 259
Locking type: Fix screw
Mounting type: Right angled

CE RoHS
Male

M12 K-Coding 260
Locking type: Fix screw
Mounting type: Straight

CE RoHS
Female

M12 K-Coding 260
Locking type: Fix screw
Mounting type: Straight

CE RoHS
Male

M12 K-Coding 261
Locking type: Fix screw
Mounting type: Right angled

CE RoHS
Female

M12 K-Coding 261
Locking type: Fix screw
Mounting type: Right angled

CE RoHS
Male

M12 L-Coding 262
Locking type: Fix screw
Mounting type: Straight

CE RoHS
Female

M12 L-Coding 262
Locking type: Fix screw
Mounting type: Straight

CE RoHS
Male

M12 L-Coding 263
Locking type: Fix screw
Mounting type: Right angled

CE RoHS
Female

M12 L-Coding 263
Locking type: Fix screw
Mounting type: Right angled

CE RoHS
Male

M12 D-Coding 264
Locking type: Fix screw
Mounting type: Straight

CE RoHS
Female

M12 D-Coding 264
Locking type: Fix screw
Mounting type: Straight

CE RoHS
Male

M12 D-Coding 265
Locking type: Fix screw
Mounting type: Right angled

CE RoHS
Female

M12 D-Coding 265
Locking type: Fix screw
Mounting type: Right angled

CE RoHS
Male

M12 D-Coding 266
Locking type: Fix screw
Mounting type: Straight

CE RoHS
Female

M12 D-Coding 266
Locking type: Fix screw
Mounting type: Straight

CE RoHS
Male

M12 D-Coding 267
Locking type: Fix screw
Mounting type: Straight

CE RoHS
Female

M12 D-Coding 267
Locking type: Fix screw
Mounting type: Straight

CE RoHS
Male

M12 D-Coding 268
Locking type: Push Pull
Mounting type: Straight

CE RoHS
Male

M12 D-Coding 269
Locking type: Push Pull
Mounting type: Straight

CE RoHS
Male

M12 D-Coding 270
Locking type: Fix screw
Mounting type: Right angled

CE RoHS
Female

M12 D-Coding 270
Locking type: Fix screw
Mounting type: Right angled

# MAIN PRODUCT AT A GLANCE

Male

**M12 D-Coding** 271

Locking type: Fix screw(Screw joint)
Mounting type: Straight

Female

**M12 D-Coding** 271

Locking type: Fix screw(Screw joint)
Mounting type: Straight

Male

**M12 D-Coding** 272

Locking type: Fix screw(Screw joint)
Mounting type: Straight

Female

**M12 D-Coding** 272

Locking type: Fix screw(Screw joint)
Mounting type: Straight

Male

**M12 D-Coding** 273

Locking type: Fix screw(Spring clamp)
Mounting type: Straight

Female

**M12 D-Coding** 273

Locking type: Fix screw(Spring clamp)
Mounting type: Straight

Male

**M12 D-Coding** 274

Locking type: Plastic Fix screw(Screw joint)
Mounting type: Straight

Female

**M12 D-Coding** 274

Locking type: Plastic Fix screw(Screw joint)
Mounting type: Straight

Male

**M12 D-Coding** 275

Locking type: Fix screw
Mounting type: Right angled

Female

**M12 D-Coding** 275

Locking type: Fix screw
Mounting type: Right angled

Male

**M12 D-Coding** 276

Locking type: Fix screw
Mounting type: Right angled

Female

**M12 D-Coding** 276

Locking type: Fix screw
Mounting type: Right angled

Male

**M12 D-Coding** 277

Locking type: Plastic Fix screw
Mounting type: Right angled

Female

**M12 D-Coding** 277

Locking type: Plastic Fix screw
Mounting type: Right angled

Male

**M12 X-Coding** 278

Locking type: Fix screw
Mounting type: Straight

Male

**M12 A-Coding** 279

Locking type: Fix screw (Solder)
Mounting type: Front fastened

Female

**M12 A-Coding** 279

Locking type: Fix screw (Solder)
Mounting type: Front fastened

Male

**M12 A-Coding** 280

Locking type: Plastic Fix screw
Mounting type: Front fastened

Female

**M12 A-Coding** 280

Locking type: Plastic Fix screw
Mounting type: Front fastened

Male

**M12 A-Coding** 281

Locking type: Fix screw (Solder)
Mounting type: Rear fastened

Female

**M12 A-Coding** 281

Locking type: Fix screw (Solder)
Mounting type: Rear fastened

Male

**M12 A-Coding** 282

Locking type: Fix screw (Solder)
Mounting type: Front fastened

Female

**M12 A-Coding** 282

Locking type: Fix screw (Solder)
Mounting type: Front fastened

Male

**M12 A-Coding** 283

Locking type: Plastic Fix screw
Mounting type: Rear fastened

Male

**M12 A-Coding** 283

Locking type: Plastic Fix screw (Solder)
Mounting type: Rear fastened

Male

**M12 A-Coding** 284

Locking type: Fix screw (Solder)
Mounting type: Rear fastened

Female

**M12 A-Coding** 284

Locking type: Fix screw (Solder)
Mounting type: Rear fastened

Male

**M12 A-Coding** 285

Locking type: Fix screw (Solder)
Mounting type: Rear fastened

Female

**M12 A-Coding** 285

Locking type: Fix screw (Solder)
Mounting type: Rear fastened

Female

**M12 A-Coding** 286

Locking type: Push Pull
Mounting type: Rear fastened

# MAIN PRODUCT AT A GLANCE

Female

M12 A-Coding 287

Locking type: Fix screw (Solder)
Mounting type: Rear fastened

Male

M12 A-Coding 288

Locking type: Fix screw (Solder)
Mounting type: Flange

Female

M12 A-Coding 288

Locking type: Fix screw (Solder)
Mounting type: Flange

Male

M12 A-Coding 289

Locking type: Fix screw(PCB)
Mounting type: Front fastened

Female

M12 A-Coding 289

Locking type: Fix screw(PCB)
Mounting type: Front fastened

Male

M12 A-Coding 290

Locking type: Plastic Fix screw(PCB)
Mounting type: Front fastened

Female

M12 A-Coding 290

Locking type: Plastic Fix screw(PCB)
Mounting type: Front fastened

Male

M12 A-Coding 291

Locking type: Fix screw(PCB)
Mounting type: Rear fastened

Female

M12 A-Coding 291

Locking type: Fix screw(PCB)
Mounting type: Rear fastened

Male

M12 A-Coding 292

Locking type: Fix screw(PCB)
Mounting type: Front fastened

Female

M12 A-Coding 292

Locking type: Fix screw(PCB)
Mounting type: Front fastened

Male

M12 A-Coding 293

Locking type: Fix screw(PCB)
Mounting type: Front fastened

Female

M12 A-Coding 293

Locking type: Fix screw(PCB)
Mounting type: Front fastened

Male

M12 A-Coding 294

Locking type: Fix screw(PCB)
Mounting type: Front fastened

Male

M12 A-Coding 294

Locking type: Fix screw(PCB)
Mounting type: Front fastened

Male

M12 A-Coding 295

Locking type: Plastic Fix screw(PCB)
Mounting type: Front fastened

Male

M12 A-Coding 296

Locking type: Fix screw(PCB)
Mounting type: Front fastened

Female

M12 A-Coding 296

Locking type: Fix screw(PCB)
Mounting type: Front fastened

Male

M12 A-Coding 297

Locking type: Fix screw(PCB)
Mounting type: Front fastened

Female

M12 A-Coding 297

Locking type: Fix screw(PCB)
Mounting type: Front fastened

Male

M12 A-Coding 298

Locking type: Fix screw(PCB)
Mounting type: Front fastened

Female

M12 A-Coding 298

Locking type: Fix screw(PCB)
Mounting type: Front fastened

Male

M12 A-Coding 299

Locking type: Fix screw(PCB)
Mounting type: Front fastened

Female

M12 A-Coding 299

Locking type: Fix screw(PCB)
Mounting type: Front fastened

Female

M12 A-Coding 300

Locking type: Push pull(PCB)
Mounting type: Front fastened

Male

M12 A-Coding 301

Locking type: Snap-in(PCB)
Mounting type: Straight

Male

M12 A-Coding 301

Locking type: Snap-in(PCB)
Mounting type: Straight

Male

M12 B-Coding 302

Locking type: Fix screw (Solder)
Mounting type: Front fastened

Female

M12 B-Coding 302

Locking type: Fix screw (Solder)
Mounting type: Front fastened

Male

M12 B-Coding 303

Locking type: Plastic Fix screw
Mounting type: Front fastened

# MAIN PRODUCT AT A GLANCE

Female

**M12 B-Coding** 303

Locking type: Plastic Fix screw
Mounting type: Front fastened

Male

**M12 B-Coding** 304

Locking type: Fix screw (Solder)
Mounting type: Rear fastened

Female

**M12 B-Coding** 304

Locking type: Fix screw (Solder)
Mounting type: Rear fastened

Male

**M12 B-Coding** 305

Locking type: Fix screw (Solder)
Mounting type: Front fastened

Female

**M12 B-Coding** 305

Locking type: Fix screw (Solder)
Mounting type: Front fastened

Male

**M12 B-Coding** 306

Locking type: Fix screw (Solder)
Mounting type: Rear fastened

Female

**M12 B-Coding** 306

Locking type: Fix screw (Solder)
Mounting type: Rear fastened

Male

**M12 B-Coding** 307

Locking type: Fix screw (Solder)
Mounting type: Rear fastened

Female

**M12 B-Coding** 307

Locking type: Fix screw (Solder)
Mounting type: Rear fastened

RoHS

Female

**M12 B-Coding** 308

Locking type: Push Pull
Mounting type: Rear fastened

Male

**M12 B-Coding** 309

Locking type: Fix screw (Solder)
Mounting type: Flange

Female

**M12 B-Coding** 309

Locking type: Fix screw (Solder)
Mounting type: Flange

Male

**M12 B-Coding** 310

Locking type: Fix screw(PCB)
Mounting type: Front fastened

Female

**M12 B-Coding** 310

Locking type: Fix screw(PCB)
Mounting type: Front fastened

Male

**M12 B-Coding** 311

Locking type: Plastic Fix screw(PCB)
Mounting type: Front fastened

Female

**M12 B-Coding** 311

Locking type: Plastic Fix screw(PCB)
Mounting type: Front fastened

Male

**M12 B-Coding** 312

Locking type: Fix screw(PCB)
Mounting type: Rear fastened

Female

**M12 B-Coding** 312

Locking type: Fix screw(PCB)
Mounting type: Rear fastened

Male

**M12 B-Coding** 313

Locking type: Fix screw(PCB)
Mounting type: Front fastened

Female

**M12 B-Coding** 313

Locking type: Fix screw(PCB)
Mounting type: Front fastened

Male

**M12 B-Coding** 314

Locking type: Fix screw(PCB)
Mounting type: Front fastened

Female

**M12 B-Coding** 314

Locking type: Fix screw(PCB)
Mounting type: Front fastened

Male

**M12 B-Coding** 315

Locking type: Fix screw(PCB)
Mounting type: Front fastened

Male

**M12 B-Coding** 315

Locking type: Fix screw(PCB)
Mounting type: Front fastened

Male

**M12 B-Coding** 316

Locking type: Fix screw(PCB)
Mounting type: Front fastened

Female

**M12 B-Coding** 316

Locking type: Fix screw(PCB)
Mounting type: Front fastened

Male

**M12 B-Coding** 317

Locking type: Fix screw(PCB)
Mounting type: Front fastened

Female

**M12 B-Coding** 317

Locking type: Fix screw(PCB)
Mounting type: Front fastened

Male

**M12 B-Coding** 318

Locking type: Fix screw(PCB)
Mounting type: Front fastened

Female

**M12 B-Coding** 318

Locking type: Fix screw(PCB)
Mounting type: Front fastened

# MAIN PRODUCT AT A GLANCE

RoHS
Male

M12 B-Coding 319

Locking type: Fix screw(PCB)
Mounting type: Front fastened

RoHS
Female

M12 B-Coding 319

Locking type: Fix screw(PCB)
Mounting type: Front fastened

RoHS
Male

M12 B-Coding 320

Locking type: Fix screw(PCB)
Mounting type: Front fastened

RoHS
Female

M12 B-Coding 320

Locking type: Fix screw(PCB)
Mounting type: Front fastened

RoHS
Male

M12 B-Coding 321

Locking type: Snap-in(PCB)
Mounting type: Straight

RoHS
Male

M12 B-Coding 321

Locking type: Snap-in(PCB)
Mounting type: Straight

RoHS
Male

M12 Quick-lock 322

Locking type: Quick-lock (Solder)
Mounting type: Front fastened

RoHS
Female

M12 Quick-lock 322

Locking type: Quick-lock (Solder)
Mounting type: Front fastened

RoHS
Male

M12 Quick-lock 323

Locking type: Quick-lock (PCB)
Mounting type: Front fastened

RoHS
Female

M12 Quick-lock 323

Locking type: Quick-lock(PCB)
Mounting type: Front fastened

RoHS
Male

M12 C-Coding 324

Locking type: Fix screw (Solder)
Mounting type: Front fastened

RoHS
Female

M12 C-Coding 324

Locking type: Fix screw (Solder)
Mounting type: Front fastened

RoHS
Male

M12 C-Coding 325

Locking type: Plastic Fix screw
Mounting type: Front fastened

RoHS
Female

M12 C-Coding 325

Locking type: Plastic Fix screw
Mounting type: Front fastened

RoHS
Male

M12 C-Coding 326

Locking type: Fix screw (Solder)
Mounting type: Rear fastened

RoHS
Female

M12 C-Coding 326

Locking type: Fix screw (Solder)
Mounting type: Rear fastened

RoHS
Male

M12 C-Coding 327

Locking type: Fix screw (Solder)
Mounting type: Front fastened

RoHS
Female

M12 C-Coding 327

Locking type: Fix screw (Solder)
Mounting type: Front fastened

RoHS
Male

M12 C-Coding 328

Locking type: Fix screw (Solder)
Mounting type: Rear fastened

RoHS
Female

M12 C-Coding 328

Locking type: Fix screw (Solder)
Mounting type: Rear fastened

RoHS
Male

M12 C-Coding 329

Locking type: Fix screw (Solder)
Mounting type: Rear fastened

RoHS
Female

M12 C-Coding 329

Locking type: Fix screw (Solder)
Mounting type: Rear fastened

RoHS
Female

M12 C-Coding 330

Locking type: Push Pull
Mounting type: Rear fastened

RoHS
Male

M12 C-Coding 331

Locking type: Fix screw (Solder)
Mounting type: Flange

RoHS
Female

M12 C-Coding 331

Locking type: Fix screw (Solder)
Mounting type: Flange

RoHS
Male

M12 C-Coding 332

Locking type: Fix screw(PCB)
Mounting type: Front fastened

RoHS
Female

M12 C-Coding 332

Locking type: Fix screw(PCB)
Mounting type: Front fastened

RoHS
Male

M12 C-Coding 333

Locking type: Plastic Fix screw(PCB)
Mounting type: Front fastened

RoHS
Female

M12 C-Coding 333

Locking type: Plastic Fix screw(PCB)
Mounting type: Front fastened

RoHS
Male

M12 C-Coding 334

Locking type: Fix screw(PCB)
Mounting type: Rear fastened

# MAIN PRODUCT AT A GLANCE

Female

M12 C-Coding 334

Locking type: Fix screw(PCB)
Mounting type: Rear fastened

Male

M12 C-Coding 335

Locking type: Fix screw(PCB)
Mounting type: Front fastened

Female

M12 C-Coding 335

Locking type: Fix screw(PCB)
Mounting type: Front fastened

Male

M12 C-Coding 336

Locking type: Fix screw(PCB)
Mounting type: Front fastened

Female

M12 C-Coding 336

Locking type: Fix screw(PCB)
Mounting type: Front fastened

Male

M12 C-Coding 337

Locking type: Fix screw(PCB)
Mounting type: Front fastened

Male

M12 C-Coding 337

Locking type: Fix screw(PCB)
Mounting type: Front fastened

Male

M12 C-Coding 338

Locking type: Fix screw(PCB)
Mounting type: Front fastened

Female

M12 C-Coding 338

Locking type: Fix screw(PCB)
Mounting type: Front fastened

Male

M12 C-Coding 339

Locking type: Fix screw(PCB)
Mounting type: Front fastened

Female

M12 C-Coding 339

Locking type: Fix screw(PCB)
Mounting type: Front fastened

Male

M12 C-Coding 340

Locking type: Fix screw(PCB)
Mounting type: Front fastened

Female

M12 C-Coding 340

Locking type: Fix screw(PCB)
Mounting type: Front fastened

Male

M12 M-Coding 341

Locking type: Fix screw
Mounting type: Front fastened

Female

M12 M-Coding 341

Locking type: Fix screw
Mounting type: Front fastened

Male

M12 M-Coding 342

Locking type: Fix screw
Mounting type: Rear fastened

Female

M12 M-Coding 342

Locking type: Fix screw
Mounting type: Rear fastened

Male

M12 S-Coding 343

Locking type: Fix screw (Solder&Crimp)
Mounting type: Front fastened

Female

M12 S-Coding 343

Locking type: Fix screw (Solder&Crimp)
Mounting type: Front fastened

Male

M12 T-Coding 344

Locking type: Fix screw (Solder&Crimp)
Mounting type: Front fastened

Female

M12 T-Coding 344

Locking type: Fix screw (Solder&Crimp)
Mounting type: Front fastened

Male

M12 T-Coding 345

Locking type: Fix screw(PCB)
Mounting type: Front fastened

Female

M12 T-Coding 345

Locking type: Fix screw(PCB)
Mounting type: Front fastened

Male

M12 K-Coding 346

Locking type: Fix screw (Solder&Crimp)
Mounting type: Front fastened

Female

M12 K-Coding 346

Locking type: Fix screw (Solder&Crimp)
Mounting type: Front fastened

Male

M12 K-Coding 347

Locking type: Fix screw (Solder&Crimp)
Mounting type: Rear fastened

Female

M12 K-Coding 347

Locking type: Fix screw (Solder&Crimp)
Mounting type: Rear fastened

Male

M12 K-Coding 348

Locking type: Fix screw(PCB)
Mounting type: Front fastened

Female

M12 K-Coding 348

Locking type: Fix screw(PCB)
Mounting type: Front fastened

Male

M12 K-Coding 349

Locking type: Fix screw(PCB)
Mounting type: Rear fastened

# MAIN PRODUCT AT A GLANCE

Female

M12 K-Coding 349

Locking type: Fix screw(PCB)
Mounting type: Rear fastened

Male

M12 L-Coding 350

Locking type: Fix screw (Solder&Crimp)
Mounting type: Front fastened

Female

M12 L-Coding 350

Locking type: Fix screw (Solder&Crimp)
Mounting type: Front fastened

Male

M12 L-Coding 351

Locking type: Fix screw (Solder&Crimp)
Mounting type: Rear fastened

Female

M12 L-Coding 351

Locking type: Fix screw (Solder&Crimp)
Mounting type: Rear fastened

Male

M12 L-Coding 352

Locking type: Fix screw(PCB)
Mounting type: Front fastened

Female

M12 L-Coding 352

Locking type: Fix screw(PCB)
Mounting type: Front fastened

Male

M12 L-Coding 353

Locking type: Fix screw(PCB)
Mounting type: Rear fastened

Female

M12 L-Coding 353

Locking type: Fix screw(PCB)
Mounting type: Rear fastened

Male

M12 D-Coding 354

Locking type: Fix screw (Solder)
Mounting type: Front fastened

Female

M12 D-Coding 354

Locking type: Fix screw (Solder)
Mounting type: Front fastened

Male

M12 D-Coding 355

Locking type: Plastic Fix screw
Mounting type: Front fastened

Female

M12 D-Coding 35

Locking type: Plastic Fix screw
Mounting type: Front fastened

Male

M12 D-Coding 356

Locking type: Fix screw (Solder)
Mounting type: Rear fastened

Female

M12 D-Coding 356

Locking type: Fix screw (Solder)
Mounting type: Rear fastened

Male

M12 D-Coding 357

Locking type: Fix screw (Solder)
Mounting type: Front fastened

Female

M12 D-Coding 357

Locking type: Fix screw (Solder)
Mounting type: Front fastened

Male

M12 D-Coding 358

Locking type: Fix screw (Solder)
Mounting type: Rear fastened

Female

M12 D-Coding 358

Locking type: Fix screw (Solder)
Mounting type: Rear fastened

Male

M12 D-Coding 359

Locking type: Fix screw (Solder)
Mounting type: Rear fastened

Female

M12 D-Coding 359

Locking type: Fix screw (Solder)
Mounting type: Rear fastened

Female

M12 D-Coding 360

Locking type: Push Pull
Mounting type: Rear fastened

Male

M12 D-Coding 361

Locking type: Fix screw (Solder)
Mounting type: Flange

Female

M12 D-Coding 361

Locking type: Fix screw (Solder)
Mounting type: Flange

Male

M12 D-Coding 362

Locking type: Fix screw(PCB)
Mounting type: Front fastened

Female

M12 D-Coding 362

Locking type: Fix screw(PCB)
Mounting type: Front fastened

Male

M12 D-Coding 363

Locking type: Plastic Fix screw(PCB)
Mounting type: Front fastened

Female

M12 D-Coding 363

Locking type: Plastic Fix screw(PCB)
Mounting type: Front fastened

Male

M12 D-Coding 364

Locking type: Fix screw(PCB)
Mounting type: Rear fastened

Female

M12 D-Coding 364

Locking type: Fix screw(PCB)
Mounting type: Rear fastened

# MAIN PRODUCT AT A GLANCE

Male

M12 D-Coding 365

Locking type: Fix screw(PCB)
Mounting type: Front fastened

Female

M12 D-Coding 365

Locking type: Fix screw(PCB)
Mounting type: Front fastened

Male

M12 D-Coding 366

Locking type: Fix screw(PCB)
Mounting type: Front fastened

Female

M12 D-Coding 366

Locking type: Fix screw(PCB)
Mounting type: Front fastened

Male

M12 D-Coding 367

Locking type: Fix screw(PCB)
Mounting type: Front fastened

Male

M12 D-Coding 367

Locking type: Fix screw(PCB)
Mounting type: Front fastened

Male

M12 D-Coding 368

Locking type: Fix screw(PCB)
Mounting type: Front fastened

Female

M12 D-Coding 368

Locking type: Fix screw(PCB)
Mounting type: Front fastened

Male

M12 D-Coding 369

Locking type: Fix screw(PCB)
Mounting type: Front fastened

Female

M12 D-Coding 369

Locking type: Fix screw(PCB)
Mounting type: Front fastened

Male

M12 D-Coding 370

Locking type: Fix screw(PCB)
Mounting type: Front fastened

Female

M12 D-Coding 370

Locking type: Fix screw(PCB)
Mounting type: Front fastened

Male

M12 D-Coding 371

Locking type: Fix screw(PCB)
Mounting type: Front fastened

Female

M12 D-Coding 371

Locking type: Fix screw(PCB)
Mounting type: Front fastened

Female

M12 D-Coding 372

Locking type: Fix screw(PCB)
Mounting type: Front fastened

Female

M12 D-Coding 372

Locking type: Fix screw(PCB)
Mounting type: Front fastened

Female

M12 D-Coding 373

Locking type: Fix screw(PCB)
Mounting type: Front fastened

Female

M12 D-Coding 374

Locking type: Push-pull
Mounting type: Front fastened

Female

M12 D-Coding 375

Locking type: Push-pull
Mounting type: Front fastened

Male

M12 D-Coding 376

Locking type: Snap-in(PCB)
Mounting type: Straight

Male

M12 D-Coding 376

Locking type: Snap-in(PCB)
Mounting type: Straight

Male

M12 X-Coding 377

Locking type: Fix screw(PCB)
Mounting type: Front fastened

Female

M12 X-Coding 377

Locking type: Fix screw(PCB)
Mounting type: Front fastened

Female

M12 X-Coding 378

Locking type: Fix screw(PCB)
Mounting type: Rear fastened

Female

M12 X-Coding 379

Locking type: Fix screw(PCB)
Mounting type: Straight

Female

M12 X-Coding 380

Locking type: Fix screw(PCB)
Mounting type: Front fastened

Female

M12 X-Coding 381

Locking type: Fix screw
Mounting type: Front fastened

Male

M12 Y1-Coding 382

Locking type: Fix screw
Mounting type: Front fastened

Female

M12 Y1-Coding 382

Locking type: Fix screw
Mounting type: Front fastened

Male

M12 Y1-Coding 383

Locking type: Fix screw(PCB)
Mounting type: Front fastened

# MAIN PRODUCT AT A GLANCE

RoHS
Female

M12 Y1-Coding 383
Locking type: Fix screw(PCB)
Mounting type: Front fastened

RoHS
Male

M12 Y1-Coding 384
Locking type: Fix screw(PCB)
Mounting type: Rear fastened

RoHS
Female

M12 Y1-Coding 384
Locking type: Fix screw(PCB)
Mounting type: Rear fastened

RoHS
Male

M12 Y2-Coding 385
Locking type: Fix screw
Mounting type: Front fastened

RoHS
Female

M12 Y2-Coding 385
Locking type: Fix screw
Mounting type: Front fastened

RoHS
Male

M12 Y2-Coding 386
Locking type: Fix screw(PCB)
Mounting type: Front fastened

RoHS
Female

M12 Y2-Coding 386
Locking type: Fix screw(PCB)
Mounting type: Front fastened

RoHS
Male

M12 Y2-Coding 387
Locking type: Fix screw(PCB)
Mounting type: Rear fastened

RoHS
Female

M12 Y2-Coding 387
Locking type: Fix screw(PCB)
Mounting type: Rear fastened

RoHS
Male

M12 Y3-Coding 388
Locking type: Fix screw
Mounting type: Front fastened

RoHS
Female

M12 Y3-Coding 388
Locking type: Fix screw
Mounting type: Front fastened

RoHS
Male

M12 Y3-Coding 389
Locking type: Fix screw(PCB)
Mounting type: Front fastened

RoHS
Female

M12 Y3-Coding 389
Locking type: Fix screw(PCB)
Mounting type: Front fastened

RoHS
Male

M12 Y3-Coding 390
Locking type: Fix screw(PCB)
Mounting type: Rear fastened

RoHS
Female

M12 Y3-Coding 390
Locking type: Fix screw(PCB)
Mounting type: Rear fastened

RoHS
Male

M12 Y4-Coding 391
Locking type: Fix screw
Mounting type: Front fastened

RoHS
Female

M12 Y4-Coding 391
Locking type: Fix screw
Mounting type: Front fastened

RoHS
Male

M12 Y4-Coding 392
Locking type: Fix screw(PCB)
Mounting type: Front fastened

RoHS
Female

M12 Y4-Coding 392
Locking type: Fix screw(PCB)
Mounting type: Front fastened

RoHS
Male

M12 Y4-Coding 393
Locking type: Fix screw(PCB)
Mounting type: Rear fastened

RoHS
Female

M12 Y4-Coding 393
Locking type: Fix screw(PCB)
Mounting type: Rear fastened

RoHS
Male-Female

M12 A-Coding 394
Locking type: Fix screw
Mounting type: Straight

RoHS
Male-Female

M12 A-Coding 395
Locking type: Fix screw
Mounting type: Straight

RoHS
Male-Female

M12 A-Coding 396
Locking type: Fix screw
Mounting type: Straight

RoHS
Female-Female

M12 X-Coding 397
Locking type: Fix screw
Mounting type: Straight

RoHS
Female-Female

M12 A-Coding 398
Locking type: Fix screw
Mounting type: I-Adapter

RoHS
Male-Male

M12 I-Adapter 399
Locking type: Fix screw
Mounting type: I-Adapter

RoHS
Male-Female

M12 I-Adapter 400
Locking type: Fix screw
Mounting type: I-Adapter

RoHS
Male-Female

M12 I-Adapter 400
Locking type: Plastic Fix screw
Mounting type: I-Adapter

RoHS
Male-Female

M12 L-Adapter 401
Locking type: Fix screw
Mounting type: L-Adapter

# MAIN PRODUCT AT A GLANCE

RoHS
Male-Female

M12 L-Adapter 401
Locking type: Plastic Fix screw
Mounting type: L-Adapter

RoHS
Male-2*Female

M12 Y-Splitter 402
Locking type: Fix screw
Mounting type: Y-Splitter

RoHS
Female-Male-Female

M12 Y-Splitter 402
Locking type: Fix screw
Mounting type: Y-Splitter

RoHS
Female-Male-Female

M12 T-Splitter 403
Locking type: Fix screw
Mounting type: T-Splitter

RoHS
Female-Male-Female

M12 T-Splitter 403
Locking type: Plastic Fix screw
Mounting type: T-Splitter

RoHS
Female-Male-Female

M12 T-Splitter 404
Locking type: Fix screw
Mounting type: T-Splitter

RoHS
Male

M12 T-Splitter 405
Locking type: Fix screw
Mounting type: T-Splitter

RoHS
Female

M12 T-Splitter 405
Locking type: Fix screw
Mounting type: T-Splitter

RoHS
Male

M12 T-Splitter 406
Locking type: Plastic Fix screw
Mounting type: T-Splitter

RoHS
Female

M12 T-Splitter 406
Locking type: Plastic Fix screw
Mounting type: T-Splitter

RoHS
Male-Female

M12 T-Splitter 407
Locking type: Fix screw
Mounting type: T-Splitter

RoHS
Male-Female

M12 T-Splitter 407
Locking type: Plastic Fix screw
Mounting type: T-Splitter

RoHS
Male-3*Female

M12 4T-Splitter 408
Locking type: Fix screw
Mounting type: T-Splitter

RoHS
Male-3*Female

M12 4T-Splitter 408
Locking type: Fix screw
Mounting type: T-Splitter

RoHS
Male-5*Female

M12 6T-Splitter 409
Locking type: Plastic Fix screw
Mounting type: T-Splitter

RoHS
Male-5*Female

M12 6T-Splitter 409
Locking type: Plastic Fix screw
Mounting type: T-Splitter

RoHS
Male

M12 Terminator 410
Locking type: Fix screw
Mounting type: Straight

RoHS
Female

M12 Terminator 410
Locking type: Fix screw
Mounting type: Straight

RoHS
Male

M12 Terminator 411
Locking type: Plastic Fix screw
Mounting type: Straight

RoHS
Female

M12 Terminator 411
Locking type: Plastic Fix screw
Mounting type: Straight

for Male

M12 Protection Cap 412
Locking type: Plastic Fix screw
Mounting type:

for Female

M12 Protection Cap 412
Locking type: Plastic Fix screw
Mounting type:

for Male

M12 Protection Cap 412
Locking type: Plastic Fix screw
Mounting type:

for Male

M12 Protection Cap 413
Locking type: Plastic Fix screw
Mounting type:

for Female

M12 Protection Cap 413
Locking type: Plastic Fix screw
Mounting type:

for Male

M12 Protection Cap 413
Locking type: Plastic Fix screw
Mounting type:

for Female

M12 Protection Cap 414
Locking type: Plastic Fix screw
Mounting type:

M16
Cables & connectors
PAGE 417~438

RoHS
Male

M16 A-Coding 421
Locking type: Fix screw
Mounting type: Straight

RoHS
Female

M16 A-Coding 421
Locking type: Fix screw
Mounting type: Straight

# MAIN PRODUCT AT A GLANCE

RoHS
Male

M16 A-Coding 422
Locking type: Fix screw
Mounting type: Straight

RoHS
Female

M16 A-Coding 422
Locking type: Fix screw
Mounting type: Straight

RoHS
Male

M16 A-Coding 423
Locking type: Fix screw
Mounting type: Right angled

RoHS
Female

M16 A-Coding 423
Locking type: Fix screw
Mounting type: Right angled

RoHS
Male

M16 A-Coding 424
Locking type: Fix screw
Mounting type: Right angled

RoHS
Female

M16 A-Coding 424
Locking type: Fix screw
Mounting type: Right angled

RoHS
Male

M16 A-Coding 425
Locking type: Fix screw(Solder)
Mounting type: Straight

RoHS
Female

M16 A-Coding 425
Locking type: Fix screw(Solder)
Mounting type: Straight

RoHS
Male

M16 A-Coding 426
Locking type: Fix screw(Solder)
Mounting type: Front fastened

RoHS
Female

M16 A-Coding 426
Locking type: Fix screw(Solder)
Mounting type: Front fastened

RoHS
Male

M16 A-Coding 427
Locking type: Fix screw(Solder)
Mounting type: Rear fastened

RoHS
Female

M16 A-Coding 427
Locking type: Fix screw(Solder)
Mounting type: Rear fastened

RoHS
Male

M16 Quick-lock 428
Locking type: Quick-lock(Solder)
Mounting type: Straight

RoHS
Female

M16 Quick-lock 428
Locking type: Quick-lock(Solder)
Mounting type: Straight

RoHS
Female

M16 Quick-lock 429
Locking type: Quick-lock(Solder)
Mounting type: Straight

RoHS
Male

M16 Quick-lock 430
Locking type: Quick-lock(Solder)
Mounting type: Straight

RoHS
Female

M16 Quick-lock 430
Locking type: Quick-lock(Solder)
Mounting type: Straight

RoHS
Female

M16 Quick-lock 431
Locking type: Quick-lock(Solder)
Mounting type: Straight

RoHS
Male

M16 Quick-lock 432
Locking type: Quick-lock(Solder)
Mounting type: Front fastened

RoHS
Female

M16 Quick-lock 432
Locking type: Quick-lock(Solder)
Mounting type: Front fastened

RoHS
Male

M16 Quick-lock 433
Locking type: Quick-lock(PCB)
Mounting type: Front fastened

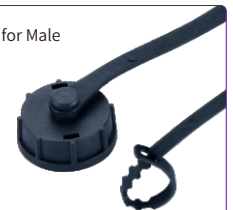
RoHS
Female

M16 Quick-lock 433
Locking type: Quick-lock(PCB)
Mounting type: Front fastened

for Male

M16 Protection Cap 434
Locking type: Plastic Fix screw
Mounting type:

for Male



M16 Protection Cap 434
Locking type: Plastic Fix screw
Mounting type:

for Male &Female

M16 Protection Cap 435
Locking type: Plastic Fix screw
Mounting type:

for Male

M16 Protection Cap 435
Locking type: Plastic Fix screw
Mounting type:

for Female

M16 Protection Cap 436
Locking type: Plastic Fix screw
Mounting type:

for Male

M16 Protection Cap 436
Locking type: Plastic Fix screw
Mounting type:

for Female

M16 Protection Cap 437
Locking type: Plastic Fix screw
Mounting type:

With Male

M16 Protection Cap 437
Locking type:
Mounting type:

# MAIN PRODUCT AT A GLANCE

With Female

M16 Protection Cap 437

Locking type:
Mounting type:

M20

Cables & connectors
PAGE 439~445

RoHS
Male

M20 3+5-Coding 442

Locking type: Fix screw
Mounting type: Straight

RoHS
Female

M20 3+5-Coding 442

Locking type: Fix screw
Mounting type: Straight

RoHS
Male

M20 3+5-Coding 443

Locking type: Fix screw
Mounting type: Straight

RoHS
Female

M20 3+5-Coding 443

Locking type: Fix screw
Mounting type: Straight

RoHS
Male

M20 3+5-Coding 444

Locking type: Fix screw(Solder)
Mounting type: Rear fastened

RoHS
Male

M20 3+5-Coding 444

Locking type: Fix screw(Solder)
Mounting type: Rear fastened

RoHS
Male-Female

M20 3+5-Coding 445

Locking type: Fix screw(Solder)
Mounting type: U-Adapter

Mini-change (7/8")

Cables & connectors
PAGE 447~470

RoHS
Male

Mini-change(7/8")
A-Coding 451

Locking type: Fix screw
Mounting type: Straight

RoHS
Female

Mini-change(7/8")
A-Coding 451

Locking type: Fix screw
Mounting type: Straight

RoHS
Male

Mini-change(7/8")
A-Coding 452

Locking type: Fix screw
Mounting type: Right angled

RoHS
Female

Mini-change(7/8")
A-Coding 452

Locking type: Fix screw
Mounting type: Right angled

RoHS
Male

Mini-change(7/8")
A-Coding 453

Locking type: Fix screw (Screw joint)
Mounting type: Straight

RoHS
Female

Mini-change(7/8")
A-Coding 453

Locking type: Fix screw (Screw joint)
Mounting type: Straight

RoHS
Male

Mini-change(7/8")
A-Coding 454

Locking type: Fix screw (Screw joint)
Mounting type: Right angled

RoHS
Female

Mini-change(7/8")
A-Coding 454

Locking type: Fix screw (Screw joint)
Mounting type: Right angled

RoHS
Male

Mini-change(7/8")
A-Coding 455

Locking type: Fix screw (Screw joint)
Mounting type:Straight

RoHS
Female

Mini-change(7/8")
A-Coding 455

Locking type: Fix screw (Screw joint)
Mounting type: Straight

RoHS
Male

Mini-change(7/8")
A-Coding 456

Locking type: Fix screw (Screw joint)
Mounting type: Right angled

RoHS
Female

Mini-change(7/8")
A-Coding 456

Locking type: Fix screw (Screw joint)
Mounting type: Right angled

RoHS
Male

Mini-change(7/8")
A-Coding 457

Locking type: Fix screw (Screw joint)
Mounting type: Straight

RoHS
Female

Mini-change(7/8")
A-Coding 457

Locking type: Fix screw (Screw joint)
Mounting type:Straight

RoHS
Male

Mini-change(7/8")
A-Coding 458

Locking type: Fix screw (Crimp)
Mounting type: Front fastened

RoHS
Female

Mini-change(7/8")
A-Coding 458

Locking type: Fix screw (Crimp)
Mounting type: Front fastened

RoHS
Male

Mini-change(7/8")
A-Coding 459

Locking type: Fix screw (Crimp)
Mounting type: Rear fastened

RoHS
Female

Mini-change(7/8")
A-Coding 459

Locking type: Fix screw (Crimp)
Mounting type: Rear fastened

RoHS
Male

Mini-change(7/8")
A-Coding 460

Locking type: Fix screw (Crimp)
Mounting type:Rear fastened

RoHS
Female

Mini-change(7/8")
A-Coding 460

Locking type: Fix screw (Crimp)
Mounting type: Front fastened

# MAIN PRODUCT AT A GLANCE

RoHS
Male-Female

Mini-change(7/8") A-Coding 461
Locking type: Fix screw (PCB)
Mounting type: Straight

RoHS
Female-Female

Mini-change(7/8") A-Coding 462
Locking type: Fix screw
Mounting type: I-Adapter

RoHS
Female-Male

Mini-change(7/8") A-Coding 463
Locking type: Fix screw
Mounting type: Y-Splitter

RoHS
Female-2*Male

Mini-change(7/8") A-Coding 467
Locking type: Fix screw
Mounting type: Y-Splitter

RoHS
Male-Female

Mini-change(7/8") A-Coding 465
Locking type: Fix screw
Mounting type: T-Splitter

RoHS
Female-Male-Female

Mini-change(7/8") A-Coding 466
Locking type: Fix screw
Mounting type: T-Splitter

RoHS
Male-Female-Female

Mini-change(7/8") A-Coding 467
Locking type: Fix screw
Mounting type: T-Splitter

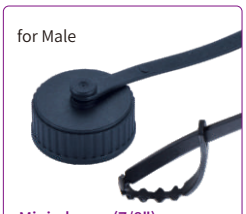
RoHS
Male

Mini-change(7/8") A-Coding 468
Locking type: Fix screw
Mounting type: Straight

RoHS
Female

Mini-change(7/8") A-Coding 468
Locking type: Fix screw
Mounting type: Straight

for Male



Mini-change(7/8") Protection Cap 469
Locking type: Fix screw
Mounting type:

for Female

Mini-change(7/8") Protection Cap 469
Locking type: Fix screw
Mounting type:

M23
Cables & connectors
PAGE 471~514

RoHS
Pin

M23 Signal 478
Locking type: Fix screw
Mounting type: Straight

RoHS
Pin

M23 Signal 478
Locking type: Fix screw
Mounting type: Straight

RoHS
Pin

M23 Signal 479
Locking type: Fix screw
Mounting type: Straight

RoHS
Pin

M23 Signal 479
Locking type: Fix screw
Mounting type: Straight

RoHS
Socket

M23 Signal 480
Locking type: Fix screw
Mounting type: Straight

RoHS
Socket

M23 Signal 480
Locking type: Fix screw
Mounting type: Straight

RoHS
Socket

M23 Signal 481
Locking type: Fix screw
Mounting type: Straight

RoHS
Socket

M23 Signal 481
Locking type: Fix screw
Mounting type: Straight

RoHS
Pin

M23 Signal 482
Locking type: Fix screw
Mounting type: Right angled

RoHS
Pin

M23 Signal 482
Locking type: Fix screw
Mounting type: Right angled

RoHS
Pin

M23 Signal 483
Locking type: Fix screw
Mounting type: Right angled

RoHS
Pin

M23 Signal 483
Locking type: Fix screw
Mounting type: Right angled

RoHS
Socket

M23 Signal 484
Locking type: Fix screw
Mounting type: Right angled

RoHS
Socket

M23 Signal 484
Locking type: Fix screw
Mounting type: Right angled

RoHS
Socket

M23 Signal 485
Locking type: Fix screw
Mounting type: Right angled

RoHS
Socket

M23 Signal 485
Locking type: Fix screw
Mounting type: Right angled

RoHS
Pin

M23 Signal 486
Locking type: Fix screw
Mounting type: Straight

RoHS
Pin

M23 Signal 486
Locking type: Fix screw
Mounting type: Straight

# MAIN PRODUCT AT A GLANCE

Socket

M23 Signal 487

Locking type: Fix screw
Mounting type: Straight

Socket

M23 Signal 487

Locking type: Fix screw
Mounting type: Straight

Male

M23 Signal 488

Locking type: Fix screw
Mounting type: Right angled

Female

M23 Signal 488

Locking type: Fix screw
Mounting type: Right angled

Male

M23 Signal 489

Locking type: Fix screw
Mounting type: Right angled

Female

M23 Signal 489

Locking type: Fix screw
Mounting type: Right angled

Male

M23 Signal 490

Locking type: Fix screw
Mounting type: Straight

Female

M23 Signal 491

Locking type: Quick-lock
Mounting type: Straight

Male

M23 Signal 492

Locking type: Fix screw
Mounting type: Straight

Female

M23 Signal 492

Locking type: Fix screw
Mounting type: Straight

Male

M23 Signal 493

Locking type: Fix screw
Mounting type: Straight

Female

M23 Signal 493

Locking type: Fix screw
Mounting type: Straight

Male

M23 Signal 494

Locking type: Fix screw
Mounting type: Front fastened

Female

M23 Signal 494

Locking type: Fix screw
Mounting type: Front fastened

Male

M23 Signal 495

Locking type: Fix screw
Mounting type: Rear mount

Female

M23 Signal 495

Locking type: Fix screw
Mounting type: Rear mount

Male

M23 Signal 496

Locking type: Fix screw(PCB)
Mounting type: Rear fastened

Female

M23 Signal 496

Locking type: Fix screw
Mounting type: Rear fastened

Male

M23 Signal 497

Locking type: Fix screw(PCB)
Mounting type: Front fastened

Female

M23 Signal 497

Locking type: Fix screw(PCB)
Mounting type: Front fastened

Male

M23 Signal 498

Locking type: Fix screw(PCB)
Mounting type: Front fastened

Female

M23 Signal 498

Locking type: Fix screw(PCB)
Mounting type: Front fastened

Male

M23 Signal 499

Locking type: Fix screw(PCB)
Mounting type: Front fastened

Female

M23 Signal 499

Locking type: Fix screw(PCB)
Mounting type: Front fastened

Male

M23 Signal 500

Locking type: Fix screw(PCB)
Mounting type: Front fastened

Female

M23 Signal 500

Locking type: Fix screw(PCB)
Mounting type: Front fastened

Male

M23 Signal 501

Locking type: Fix screw(PCB)
Mounting type: Front fastened

Male

M23 Power 502

Locking type: Fix screw
Mounting type: Straight

Female

M23 Power 502

Locking type: Fix screw
Mounting type: Straight

Male

M23 Power 503

Locking type: Fix screw
Mounting type: Right angled

# MAIN PRODUCT AT A GLANCE

RoHS
Female

M23 Power 503
Locking type: Fix screw
Mounting type: Right angled

RoHS
Male

M23 Power 504
Locking type: Fix screw
Mounting type: Straight

RoHS
Female

M23 Power 504
Locking type: Fix screw
Mounting type: Straight

RoHS
Male

M23 Power 505
Locking type: Fix screw
Mounting type: Straight

RoHS
Female

M23 Power 505
Locking type: Fix screw
Mounting type: Straight

RoHS
Male

M23 Power 506
Locking type: Fix screw
Mounting type: Right angled

RoHS
Female

M23 Power 506
Locking type: Fix screw
Mounting type: Right angled

RoHS
For Male

M23 Signal/Power 507
Locking type: Fix screw
Mounting type:

For Female

M23 Signal/Power 507
Locking type: Fix screw
Mounting type:

with Female

M23 Signal 508
Locking type: Fix screw
Mounting type:

with Male

M23 Signal 508
Locking type: Fix screw
Mounting type:

RD24
Cables & connectors
PAGE 519~528

RoHS
Male

RD24 A-Coding 522
Locking type: Fix screw
Mounting type: Straight

RoHS
Female

RD24 A-Coding 522
Locking type: Fix screw
Mounting type: Straight

RoHS
Male

RD24 A-Coding 523
Locking type: Fix screw (Solder)
Mounting type: Straight

RoHS
Female

RD24 A-Coding 523
Locking type: Fix screw (Solder)
Mounting type: Straight

RoHS
Male

RD24 A-Coding 524
Locking type: Fix screw (Solder)
Mounting type: Front fastened

RoHS
Male

RD24 A-Coding 525
Locking type: Fix screw (Solder)
Mounting type: Front fastened

RoHS
Female

RD24 A-Coding 525
Locking type: Fix screw (Solder)
Mounting type: Front fastened

RoHS
Male

RD24 B-Coding 526
Locking type: Fix screw
Mounting type: Straight

RoHS
Female

RD24 B-Coding 526
Locking type: Fix screw
Mounting type: Straight

RoHS
Male

RD24 B-Coding 527
Locking type: Fix screw (Solder)
Mounting type: Straight

RoHS
Female

RD24 B-Coding 527
Locking type: Fix screw (Solder)
Mounting type: Straight

RoHS
Male

RD24 B-Coding 528
Locking type: Fix screw (Solder)
Mounting type: Front fastened

Solenoid valve
connectors
PAGE 529~543

RoHS
Female

Valve plug Type A 532
Connector series: Valve plug
Locking system: Central screw

RoHS
Female

Valve plug Type B 533
Connector series: Valve plug
Locking system: Central screw

RoHS
Female

Valve plug Type C 534
Connector series: Valve plug
Locking system: Central screw

RoHS
Female

Valve plug Type A 535
Connector series: Valve plug
Locking system: Central screw

RoHS
Female

Valve plug Type A 536
Connector series: Valve plug
Locking system: Central screw

# MAIN PRODUCT AT A GLANCE

RoHS
Female

Valve plug Type B 537
Connector series: Valve plug
Locking system: Central screw

RoHS
Female

Valve plug Type C 538
Connector series: Valve plug
Locking system: Central screw

RoHS
Male

Valve plug Type A 539
Connector series: Valve plug
Locking system: Central nut

RoHS
Male

Valve plug Type A 540
Connector series: Valve plug
Locking system: Central nut

RoHS
Male

Valve plug Type A 541
Connector series: Valve plug
Locking system: Central nut

RoHS
Male

Valve plug Type B 542
Connector series: Valve plug
Locking system: Central nut

RoHS
Male

Valve plug Type C 543
Connector series: Valve plug
Locking system: Central nut

Industrial I/O
connectors
PAGE 545~586

RoHS
Male

Mini-Din 549
Locking type: Fix screw
Mounting type: Straight

RoHS
Female

Mini-Din 549
Locking type: Fix screw
Mounting type: Straight

RoHS
Female

Mini-Din 550
Locking type: Fix screw
Mounting type: Front fastened

RoHS
Male

USB 2.0 551
Locking type: Fix screw
Mounting type: Straight

RoHS
Male

USB 3.0 551
Locking type: Fix screw
Mounting type: Straight

RoHS
Male

USB 2.0 552
Locking type: Fix screw
Mounting type: Straight

RoHS
Male

USB 2.0 552
Locking type: Fix screw
Mounting type: Straight

RoHS
Male

USB 2.0 553
Locking type: Fix screw
Mounting type: Straight

RoHS
Male

USB 3.0 553
Locking type: Fix screw
Mounting type: Straight

RoHS
Female

USB 2.0 554
Locking type: Fix screw
Mounting type: Front fastened

RoHS
Female

USB 3.0 554
Locking type: Fix screw
Mounting type: Front fastened

RoHS
Female

USB 2.0 555
Locking type: Fix screw
Mounting type: Rear fastened

RoHS
Female

USB 3.0 556
Locking type: Fix screw
Mounting type: Rear fastened

RoHS
Female

USB 2.0 557
Locking type: Fix screw
Mounting type: Front fastened

RoHS
Female

USB 3.0 557
Locking type: Fix screw
Mounting type: Front fastened

RoHS
Male

Micro-USB 558
Locking type: Fix screw
Mounting type: Straight

RoHS
Male

Mini-USB 559
Locking type: Fix screw
Mounting type: Straight

RoHS
Female

Micro-USB 560
Locking type: Fix screw
Mounting type: Front fastened

RoHS
Female

Mini-USB 561
Locking type: Fix screw
Mounting type: Front fastened

RoHS
Male

RJ45 562
Locking type: Fix screw
Mounting type: Straight

RoHS
Male

RJ45 563
Locking type: Fix screw
Mounting type: Straight

RoHS
Female

RJ45 563
Locking type: Fix screw
Mounting type: Straight

# MAIN PRODUCT AT A GLANCE

RoHS
Male

RJ45 564
Locking type: Fix screw
Mounting type: Straight

RoHS
Female

RJ45 565
Locking type: Fix screw
Mounting type: Front fastened

RoHS
Female

RJ45 566
Locking type: Fix screw
Mounting type: Front fastened

RoHS
Male-Female

M12-RJ45 Adapter 567
Coding: D-Coding
Mounting type: Straight

RoHS
Female-Female

M12-RJ45 Adapter 567
Coding: D-Coding
Mounting type: Straightd

RoHS
Male-Female

M12-RJ45 Adapter 568
Coding: D-Coding
Mounting type: Straight

RoHS
Male-Female

M12-RJ45 Adapter 568
Coding: D-Coding
Mounting type: Right angled

RoHS
Male-Female

M12-RJ45 Adapter 569
Coding: D-Coding
Mounting type: Right angled

RoHS
Female-Female

M12-RJ45 Adapter 569
Coding: D-Coding
Mounting type: Right angled

RoHS
Female-Female

M12-RJ45 Adapter 570
Coding: X-Coding
Mounting type: Right angled

for Male

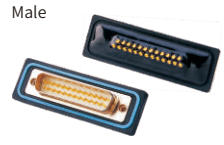
USB/RJ45 571
Locking type: Fix screw
Mounting type:

for Male

Mini-USB / Micor-USB / Mini-Din 571
Locking type: Fix screw
Mounting type:

RoHS
Female

UHF 572
Locking type: Fix screw
Mounting type: Front fastened

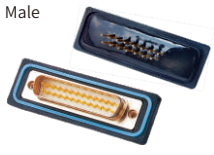
RoHS
Male

D-Sub 573
Locking type: Fix screw
Mounting type: Front fastened

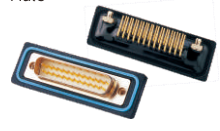
RoHS
Male

D-Sub 574
Locking type: Fix screw
Mounting type: Front fastened

RoHS
Female

D-Sub 575
Locking type: Fix screw
Mounting type: Front fastened

RoHS
Male

D-Sub 576
Locking type: Fix screw
Mounting type: Front fastened

RoHS
Male

D-Sub 577
Locking type: Fix screw
Mounting type: Front fastened

RoHS
Female

D-Sub 578
Locking type: Fix screw
Mounting type: Front fastened

RoHS
Female

D-Sub 579
Locking type: Fix screw
Mounting type: Front fastened

RoHS
Male

D-Sub 580
Locking type: Fix screw
Mounting type: Front fastened

RoHS
Female

D-Sub 581
Locking type: Fix screw
Mounting type: Straight

RoHS
Female

Micro D-Sub 582
Locking type: Fix screw
Mounting type: Straight

RoHS
Female

Micro D-Sub 583
Locking type: Fix screw
Mounting type: Right angled

RoHS
Jack

Optical fiber 584
Mating style: 3 Points lock bayonet
Mounting type: Rear fastened

RoHS
Jack

Optical fiber 585
Mating style: 3 Points lock bayonet
Mounting type: Rear fastened

RoHS
Jack

Optical fiber 585
Mating style: 3 Points lock bayonet
Mounting type: Rear fastened

for Male

Optical fiber 586
Locking type: Fix screw
Mounting type: Straight

ISO-BUS 11783
connectors
PAGE 587~590

RoHS
Plug

ISO-BUS Break way 588
Locking type: Quick-lock
Mounting type: Straight

# MAIN PRODUCT AT A GLANCE

RoHS
Receptacle

ISO-BUS Break way 589
Locking type: Quick-lock
Mounting type: Straight

RoHS
Plug

ISO-BUS Break way 590
Locking type: Quick-lock
Mounting type: Panle

Junction
Boxes
PAGE 591~614

RoHS

M5 (8 Ports) 593
Input: Molded cable
Locking type: Fix screw

RoHS

M5 (8 Ports) 594
Input: M12 connector
Locking type: Fix screw

RoHS

M5 (6 Ports) 595
Input: Molded cable
Locking type: Fix screw

RoHS

M5 6 Ports) 596
Input: M12 connector
Locking type: Fix screw

RoHS

M5 (4 Ports) 597
Input: Molded cable
Locking type: Fix screw

RoHS

M5 (4 Ports) 598
Input: M12 connector
Locking type: Fix screw

RoHS

M8 (8 Ports) 599
Input: Molded cable
Locking type: Fix screw

RoHS

M8 (8 Ports) 600
Input: M12 connector
Locking type: Fix screw

RoHS

M8 (6 Ports) 601
Input: Molded cable
Locking type: Fix screw

RoHS

M8 (6 Ports) 602
Input: M12 connector
Locking type: Fix screw

RoHS

M8 (4 Ports) 603
Input: Molded cable
Locking type: Fix screw

RoHS

M8 (4 Ports) 604
Input: M12 connector
Locking type: Fix screw

CE RoHS

M12 (8 Ports) 605
Input: M12 Termination
Locking type: Fix screw

CE RoHS

M12 (8 Ports) 606
Input: M12 Termination
Locking type: Fix screw

RoHS

M12 (8 Ports) 607
Input: Molded cable
Locking type: Fix screw

RoHS

M12 (8 Ports) 608
Input: M23 connector
Locking type: Fix screw

RoHS

M12 (8 Ports) 609
Input: Mini-Change 7/8" connector
Locking type: Fix screw

RoHS

M12 (6 Ports) 610
Input: Molded cable
Locking type: Fix screw

RoHS

M12 (6 Ports) 611
Input: M23 connector
Locking type: Fix screw

RoHS

M12 (4 Ports) 612
Input: Molded cable
Locking type: Fix screw

RoHS

M12 (4 Ports) 613
Input: M23 connector
Locking type: Fix screw

RoHS

M12 (6 Ports) 614
Input: Molded cable
Locking type: Fix screw

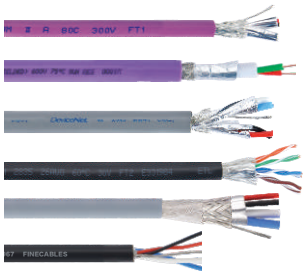
Cables
& Connectors
PAGE 615~688

BUS Cables

Plenum Cables

Drag Chain Cables

Data Cables



RoHS
M12 Male

CAN-BUS cables 618
Contact No.: 5 Pins
Coding: A-Coding

RoHS
M12 Female

CAN-BUS cables 619
Contact No.: 5 Pins
Coding: A-Coding

# MAIN PRODUCT AT A GLANCE

RoHS
M12 male & female

CAN-BUS cables 620

Contact No.: 5 Pins
Coding: A-Coding

RoHS
M12 Male

Profibus cables 623

Contact No.: 5 Pins
Coding: B-Coding

RoHS
M12 Female

Profibus cables 624

Contact No.: 5 Pins
Coding:B-Coding

RoHS
M12 male & female

Profibus cables 625

Contact No.: 5 Pins
Coding: B-Coding

RoHS
M12 Male

DeviceNet cables 628

Contact No.: 5 Pins
Coding: A-Coding

RoHS
M12 Female

DeviceNet cables 629

Contact No.: 5 Pins
Coding: A-Coding

RoHS
M12 male & female

DeviceNet cables 630

Contact No.: 5 Pins
Coding: A-Coding

RoHS
7/8" Male

DeviceNet cables 631

Contact No.: 5 Pins
Coding: A-Coding

RoHS
7/8" female

DeviceNet cables 632

Contact No.: 5 Pins
Coding: A-Coding

RoHS
7/8" male & female

DeviceNet cables 633

Contact No.: 5 Pins
Coding: A-Coding

RoHS
M12 male; RJ45

Industrial EtherNet Cables 641

Contact No.: 8 Pins
Coding: M12 X-Coding

RoHS
M12 Female; RJ45

Industrial EtherNet Cables 642

Contact No.: 8 Pins
Coding: M12 X-Coding

RoHS
M12 male; RJ45

Industrial EtherNet Cables 643

Contact No.: 4 Pins
Coding: M12 D-Coding

RoHS
M12 Female; RJ45

Industrial EtherNet Cables 644

Contact No.: 4 Pins
Coding: M12 D-Coding

RoHS
M8 Male

Plenum Cables 647

Contact No.: 5 Pins
Coding: B-Coding

RoHS
M8 Female

Plenum Cables 648

Contact No.: 5 Pins
Coding: B-Coding

RoHS
M8 male & female

Plenum Cables 649

Contact No.: 5 Pins
Coding: B-Coding

RoHS
M12 Male

Plenum Cables 650

Contact No.: 5 Pins
Coding: A-Coding

RoHS
M12 Female

Plenum Cables 651

Contact No.: 5 Pins
Coding: A-Coding

RoHS
M12 Male &Female

Plenum Cables 652

Contact No.: 5 Pins
Coding: A-Coding

RoHS
7/8" Female

Plenum Cables 653

Contact No.: 5 Pins
Coding: M12 A-Coding

RoHS
7/8" Male

Plenum Cables 654

Contact No.: 5 Pins
Coding: A-Coding

RoHS
7/8" male & female

Plenum Cables 655

Contact No.: 5 Pins
Coding: A-Coding

RoHS
M8 Male

Drag Chain Cable 660

Contact No.: 5 Pins
Coding: A-Coding

RoHS
M8 Female

Drag Chain Cable 661

Contact No.: 5 Pins
Coding: A-Coding

RoHS
M8 male & female

Drag Chain Cable 662

Contact No.: 5 Pins
Coding: A-Coding

RoHS
M12 Male

Drag Chain Cable 663

Contact No.: 5 Pins
Coding: A-Coding

RoHS
M12 Female

Drag Chain Cable 664

Contact No.: 5 Pins
Coding: M12 A-Coding

RoHS
M12 Male &Female

Drag Chain Cable 665

Contact No.: 5 Pins
Coding: A-Coding

RoHS
7/8" Female

Drag Chain Cable 666

Contact No.: 5 Pins
Coding: M12 A-Coding

CE RoHS
7/8" Male

Drag Chain Cable 667

Contact No.: 5 Pins
Coding: A-Coding

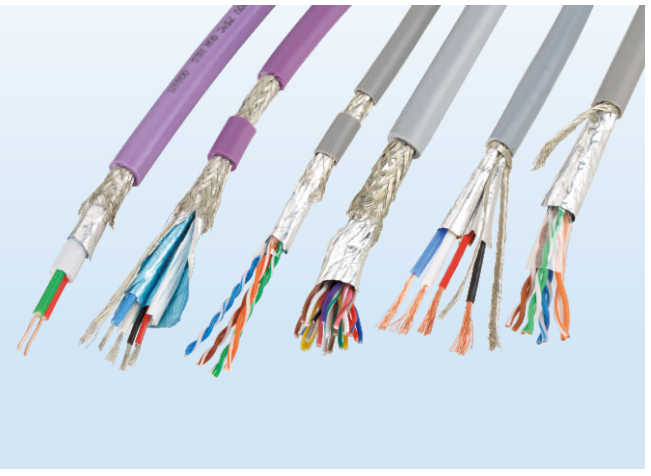
CE RoHS
7/8" male & female

Drag Chain Cable 668

Contact No.: 5 Pins
Coding: A-Coding

## Multi-conductor Cable

### 100M/Reel PUR Cables for Field Installable/Assembly Connectors



- Do you ever have this experience: after buying field installable/assembly connectors, you haveto purchase related cables from another supplier?
- Finecables is now offering real one-stop service by providing a wide range of 100M/Reel PUR cables in cartons to meet customer demands. Thus enables you to buy not only field installable/assembly connectors, but also cables at a more competitive price from only a single source. The package unit contains a cable length of 100M/Reel.
- You can select exactly the right cable for your application from a range of core counts, cross-sections, wire gauges and wire structures. All of the cables are UL-approved and used forapplicable connector of M8/M12/M16/7/8"/Industrial I/O series etc.
- One-stop services are always at your disposal. Look forward to further cooperation with you.

# Circular **sensor**
## connectors

## M5 cables & connectors

The M5 Series is specifically developed for the miniature sensor market and any similar applications that require multiple sensors within a miniaturized area. This product line offers both 3 and 4 Pins cable cord-sets and a range of panel-mount receptacles. All connectors are either over-molded on PUR/PVC cables or panel-mount receptacles with a solder-cup for wire connecting or with PCB termination for dip solder. In locked condition, this series can meet IP67 rating.

- Design as per IEC 61076-2-105
- Degree of protection IP67
- 3, 4 poles are available
- TPU over-molded
- Cable length customized, PUR and PVC cable options

# M5 Quick Search Table

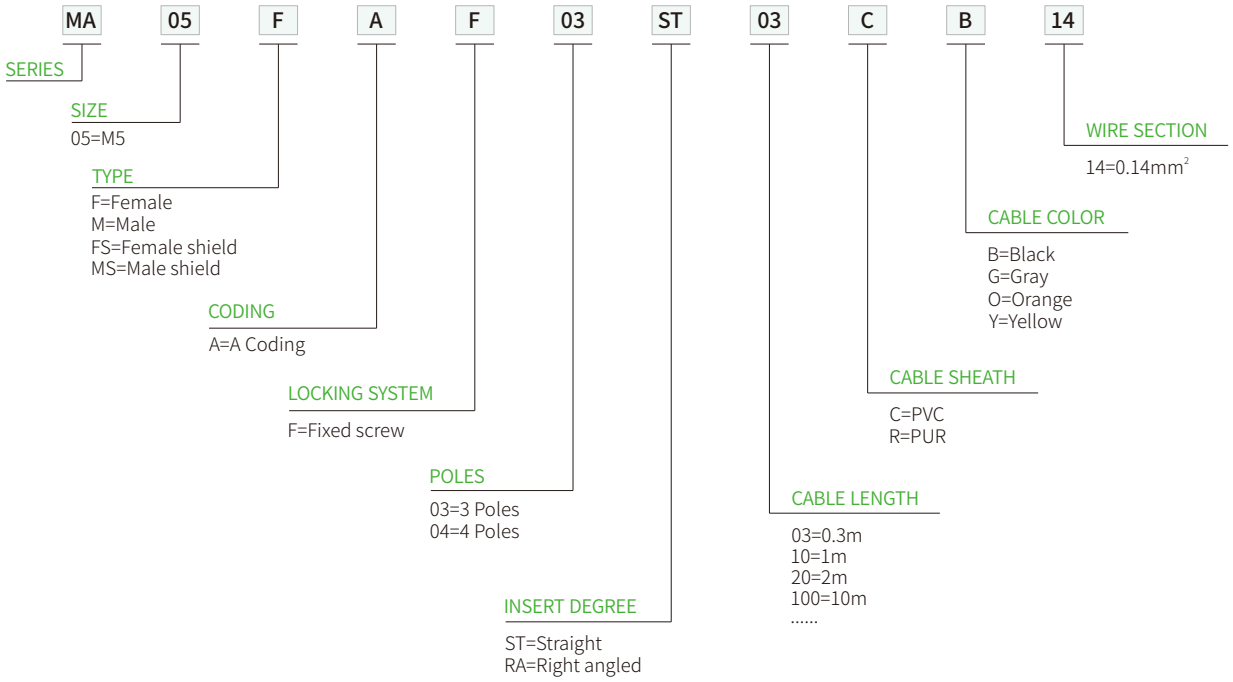
## M5 cables & connectors

| M5 Quick Search Table | | | | | |
|---|---|---|---|---|---|
| | Available Coding | A-coding | | | |
| | Rated Current | 1A | | | |
| | Voltage | 60V | | | |
| | Wire Gauge / size | 26AWG / 0.14mm² | | | |
| | Pin layout | Male | Female | Male | Female |
| **Molded Cable** | | 03 Pins | | 04 Pins | |
| | Straight Connector, Molded Cable | 046 | 046 | 046 | 046 |
| | Straight Connector, Molded Cable, Shielded | 047 | 047 | 047 | 047 |
| | Angled Connector, Molded Cable | 048 | 048 | 048 | 048 |
| **Panel Mount Type** | | 03 Pins | | 04 Pins | |
| | Straight Connector, Panel Mount, Solder, Front fastened | 049 | 049 | 049 | 049 |
| | Straight Connector, Panel Mount, Solder, Rear fastened | 050 | 050 | 050 | 050 |
| | Straight Connector, Panel Mount, PCB Type, Front fastened | 051 | 051 | 051 | 051 |
| | Straight Connector, Panel Mount, PCB Type, Front fastened With Earth Pin | 052 | 052 | 052 | 052 |
| **ProtectionCap** | | | | | |
| | Protection Cap for Male Connector | 053 | | | |
| | Protection Cap for Female Connector | 053 | | | |

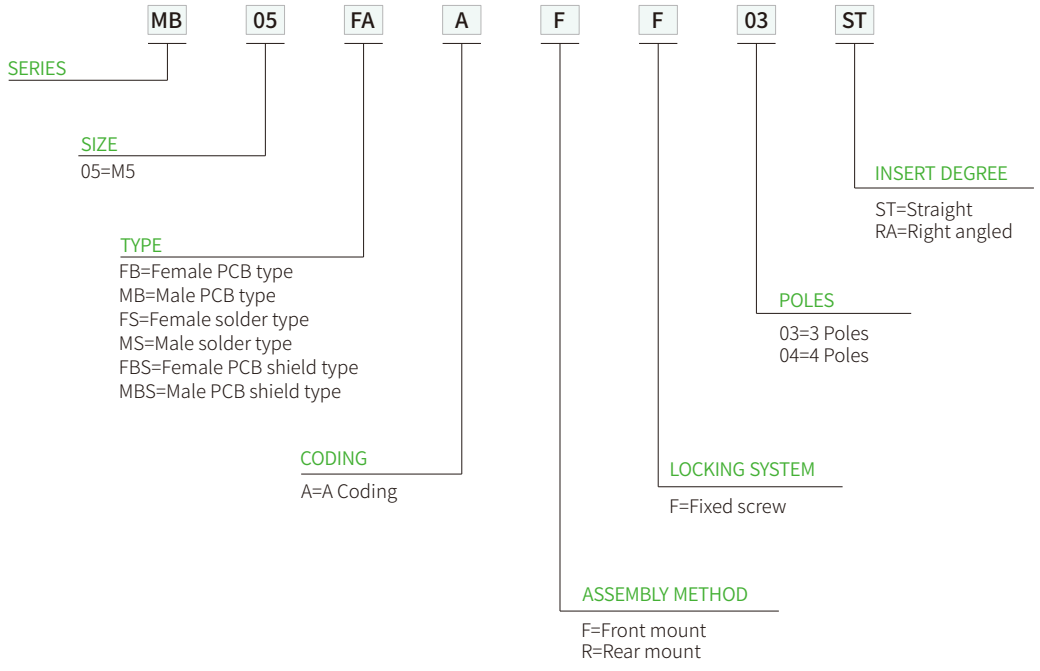
# M5 Sensor and Actuator

## How to Order Part Number

### M5 Series with cable molded



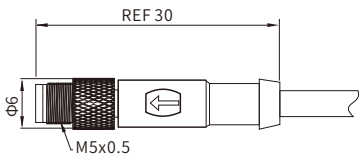

### M5 Series Assembly / Panel-mount type



# M5 Sensor and Actuator

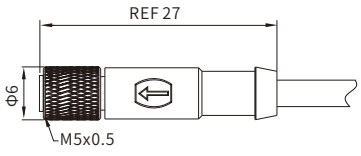
## M5 Straight Connector, Molded Cable

Male




CE RoHS

Female




CE RoHS

## Specifications

| Contacts | 3 | 4 |
|---|---|---|
| Pin layout(Male) | | |
| Pin layout(Female) | | |
| Standard | IEC 61076-2-105 | |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | |
| Connector insert | TPU | |
| Connector contacts | Brass with gold plated | |
| Connector overmold | TPU | |
| Coupling nut/screw | Brass with nickel plated | |
| Seal/O-ring(of Female) | FKM | |
| Insulation resistance | ⩾100MΩ | |
| Contact resistance | ⩽5mΩ | |
| Shielding | Unavailable | |
| IP rating | IP67 in locked condition | |
| Mating endurance | >500 cycles | |
| Rated current | 1 A | |
| Rated voltage | 60V AC/DC | |
| Wire gauge | 0.14mm²(AWG26) | |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 3 | 1m | MA05MAF03ST-10CB14 | MA05MAF03ST-10RB14 | MA05FAF03ST-10CB14 | MA05FAF03ST-10RB14 |
| | 3m | MA05MAF03ST-30CB14 | MA05MAF03ST-30RB14 | MA05FAF03ST-30CB14 | MA05FAF03ST-30RB14 |
| | 5m | MA05MAF03ST-50CB14 | MA05MAF03ST-50RB14 | MA05FAF03ST-50CB14 | MA05FAF03ST-50RB14 |
| 4 | 1m | MA05MAF04ST-10CB14 | MA05MAF04ST-10RB14 | MA05FAF04ST-10CB14 | MA05FAF04ST-10RB14 |
| | 3m | MA05MAF04ST-30CB14 | MA05MAF04ST-30RB14 | MA05FAF04ST-30CB14 | MA05FAF04ST-30RB14 |
| | 5m | MA05MAF04ST-50CB14 | MA05MAF04ST-50RB14 | MA05FAF04ST-50CB14 | MA05FAF04ST-50RB14 |

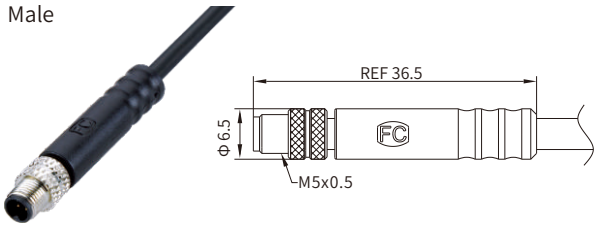
## Default wire colors

| Pin No. | | |
|---|---|---|
| Pin 1 | BN | BN |
| Pin 2 | | WH |
| Pin 3 | BU | BU |
| Pin 4 | BK | BK |

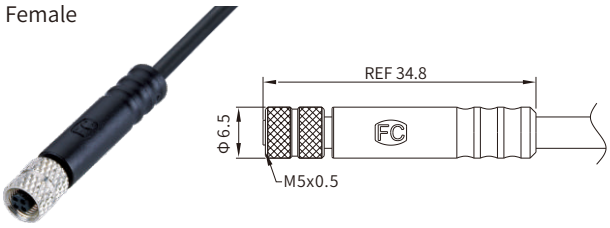
# M5 Sensor and Actuator

## M5 Straight Connector, Molded Cable, Shielded

Male




Female




CE RoHS

CE RoHS

## Specifications

| Contacts | 3 | 4 |
|---|---|---|
| Pin layout(Male) | | |
| Pin layout(Female) | | |
| Standard | IEC 61076-2-105 | |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | |
| Connector insert | TPU | |
| Connector contacts | Brass with gold plated | |
| Connector overmold | TPU; PA | |
| Coupling nut/screw | Brass with nickel plated | |
| Seal/O-ring(of Female) | FKM | |
| Insulation resistance | ⩾100MΩ | |
| Contact resistance | ⩽5mΩ | |
| Shielding | Available | |
| IP rating | IP67 in locked condition | |
| Mating endurance | >500 cycles | |
| Rated current | 1 A | |
| Rated voltage | 60V AC/DC | |
| Wire gauge | 0.14mm$^2$(AWG26) | |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 3 | 1m | MA05MSAF03ST-10CB14 | MA05MSAF03ST-10RB14 | MA05FSAF03ST-10CB14 | MA05FSAF03ST-10RB14 |
| | 3m | MA05MSAF03ST-30CB14 | MA05MSAF03ST-30RB14 | MA05FSAF03ST-30CB14 | MA05FSAF03ST-30RB14 |
| | 5m | MA05MSAF03ST-50CB14 | MA05MSAF03ST-50RB14 | MA05FSAF03ST-50CB14 | MA05FSAF03ST-50RB14 |
| 4 | 1m | MA05MSAF04ST-10CB14 | MA05MSAF04ST-10RB14 | MA05FSAF04ST-10CB14 | MA05FSAF04ST-10RB14 |
| | 3m | MA05MSAF04ST-30CB14 | MA05MSAF04ST-30RB14 | MA05FSAF04ST-30CB14 | MA05FSAF04ST-30RB14 |
| | 5m | MA05MSAF04ST-50CB14 | MA05MSAF04ST-50RB14 | MA05FSAF04ST-50CB14 | MA05FSAF04ST-50RB14 |

## Default wire colors

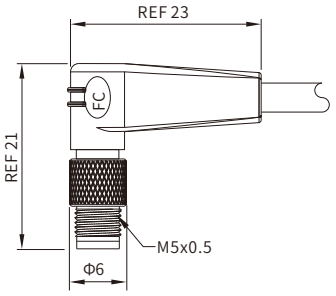
| Pin No. | | |
|---|---|---|
| Pin 1 | BN | BN |
| Pin 2 | | WH |
| Pin 3 | BU | BU |
| Pin 4 | BK | BK |
| Shell | Braid | |

# M5 Sensor and Actuator

## M5 Angled Connector, Molded Cable

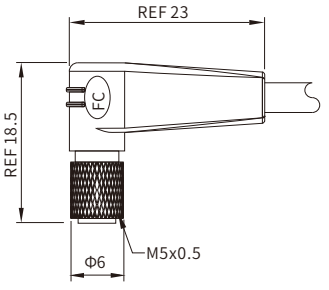
Male

RoHS




Female

RoHS




## Specifications

| Contacts | 3 | 4 |
|---|---|---|
| Pin layout(Male) | | |
| Pin layout(Female) | | |
| Standard | IEC 61076-2-105 | |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | |
| Connector insert | TPU | |
| Connector contacts | Brass with gold plated | |
| Connector overmold | TPU | |
| Coupling nut/screw | Brass with nickel plated | |
| Seal/O-ring(of Female) | FKM | |
| Insulation resistance | ⩾100MΩ | |
| Contact resistance | ⩽5mΩ | |
| Shielding | Unavailable | |
| IP rating | IP67 in locked condition | |
| Mating endurance | >500 cycles | |
| Rated current | 1 A | |
| Rated voltage | 60V AC/DC | |
| Wire gauge | 0.14mm²(AWG26) | |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 3 | 1m | MA05MAF03RA-10CB14 | MA05MAF03RA-10RB14 | MA05FAF03RA-10CB14 | MA05FAF03RA-10RB14 |
| | 3m | MA05MAF03RA-30CB14 | MA05MAF03RA-30RB14 | MA05FAF03RA-30CB14 | MA05FAF03RA-30RB14 |
| | 5m | MA05MAF03RA-50CB14 | MA05MAF03RA-50RB14 | MA05FAF03RA-50CB14 | MA05FAF03RA-50RB14 |
| 4 | 1m | MA05MAF04RA-10CB14 | MA05MAF04RA-10RB14 | MA05FAF04RA-10CB14 | MA05FAF04RA-10RB14 |
| | 3m | MA05MAF04RA-30CB14 | MA05MAF04RA-30RB14 | MA05FAF04RA-30CB14 | MA05FAF04RA-30RB14 |
| | 5m | MA05MAF04RA-50CB14 | MA05MAF04RA-50RB14 | MA05FAF04RA-50CB14 | MA05FAF04RA-50RB14 |

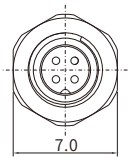
## Default wire colors

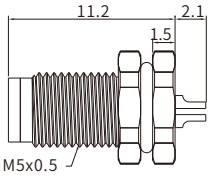
| Pin No. | | |
|---|---|---|
| Pin 1 | BN | BN |
| Pin 2 | | WH |
| Pin 3 | BU | BU |
| Pin 4 | BK | BK |

# M5 Sensor and Actuator

## M5 Straight Connector, Panel Mount, Solder, Front fastened

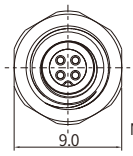
Male

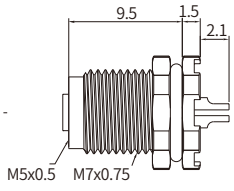



CE RoHS IP68

Female




CE RoHS IP68

## Specifications

| Contacts | 3 | 4 |
|---|---|---|
| Pin layout(Male) | | |
| Pin layout(Female) | | |
| Standard | IEC 61076-2-105 | |
| Ambient temperature | -15°C~+85°C (flexible installation), -30°C~+85°C (fixed installation) | |
| Customized temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | |
| Connector insert | TPU; PA+GF | |
| Connector contacts | Brass with gold plated | |
| Coupling nut/screw | Brass with nickel plated | |
| Seal/O-ring | Epoxy resin / FKM | |
| Insulation resistance | ⩾100MΩ | |
| Contact resistance | ⩽5mΩ | |
| Earth tag/pin | Unavailable | |
| IP rating | IP67 in locked condition | |
| Mating endurance | >500 cycles | |
| Rated current | 1 A | |
| Rated voltage | 60V AC/DC | |
| Wire gauge | 0.14mm$^2$(AWG26) | |

## Part Number

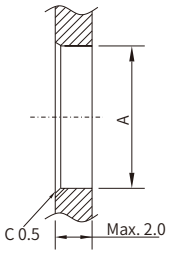
| Pins | Cable length | Male | Female |
|---|---|---|---|
| 3 | 0.1m | MB05MSAFF03ST-1401 | MB05FSAFF03ST-1401 |
| | 0.3m | MB05MSAFF03ST-1403 | MB05FSAFF03ST-1403 |
| 4 | 0.1m | MB05MSAFF04ST-1401 | MB05FSAFF04ST-1401 |
| | 0.3m | MB05MSAFF04ST-1403 | MB05FSAFF04ST-1403 |

## Default wire colors

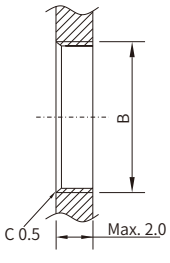
| Pin No. | | |
|---|---|---|
| Pin 1 | BN | BN |
| Pin 2 | | WH |
| Pin 3 | BU | BU |
| Pin 4 | BK | BK |

## Panel Cut-out Dimensions

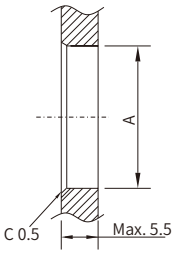
With bare hole



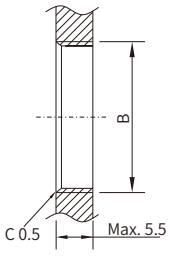

With thread to screw in




With bare hole




With thread to screw in

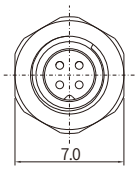


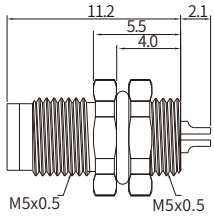

| | A | B |
|---|---|---|
| M5 | $5.0^{+0.1}_{-0}$ | M5x0.5 |
| M7 | $7.0^{+0.1}_{-0}$ | M7x0.75 |

# M5 Sensor and Actuator

## M5 Straight Connector, Panel Mount, Solder, Rear fastened

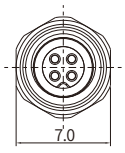
Male

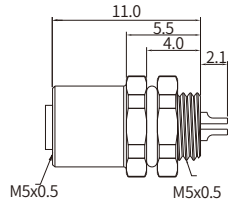



CE RoHS IP68

Female




CE RoHS IP68

## Specifications

| Contacts | 3 | 4 |
|---|---|---|
| Pin layout(Male) | | |
| Pin layout(Female) | | |
| Standard | IEC 61076-2-105 | |
| Ambient temperature | -15°C~+85°C (flexible installation), -30°C~+85°C (fixed installation) | |
| Customized temperature | -25°C ~ +85°C (flexible installation), -40°C ~ +85°C (fixed installation) | |
| Connector insert | TPU; PA+GF | |
| Connector contacts | Brass with gold plated | |
| Coupling nut/screw | Brass with nickel plated | |
| Seal/O-ring | Epoxy resin / FKM | |
| Insulation resistance | ⩾100MΩ | |
| Contact resistance | ⩽5mΩ | |
| Earth tag/pin | Unavailable | |
| IP rating | IP67 in locked condition | |
| Mating endurance | >500 cycles | |
| Rated current | 1 A | |
| Rated voltage | 60V AC/DC | |
| Wire gauge | 0.14mm²(AWG26) | |

## Part Number

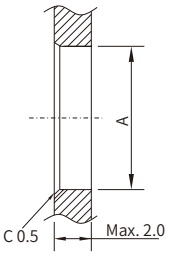
| Pins | Cable length | Male | Female |
|---|---|---|---|
| 3 | 0.1m | MB05MSARF03ST-1401 | MB05FSARF03ST-1401 |
| | 0.3m | MB05MSARF03ST-1403 | MB05FSARF03ST-1403 |
| 4 | 0.1m | MB05MSARF04ST-1401 | MB05FSARF04ST-1401 |
| | 0.3m | MB05MSARF04ST-1403 | MB05FSARF04ST-1403 |

## Default wire colors

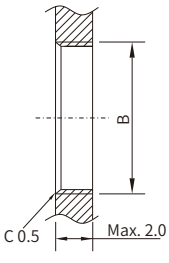
| Pin No. | | |
|---|---|---|
| Pin 1 | BN | BN |
| Pin 2 | | WH |
| Pin 3 | BU | BU |
| Pin 4 | BK | BK |

## Panel Cut-out Dimensions

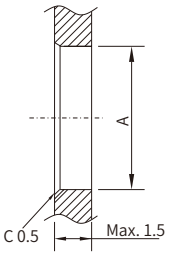
With bare hole



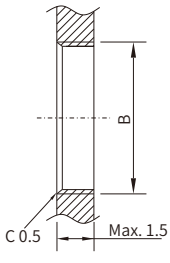

With thread to screw in




With bare hole




With thread to screw in

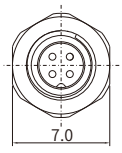


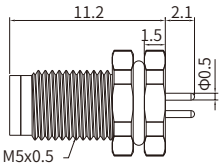

| | A | B |
|---|---|---|
| M5 | $5.0^{+0.1}_{-0}$ | M5x0.5 |
| M7 | $5.0^{+0.1}_{-0}$ | M5x0.75 |

# M5 Sensor and Actuator

## M5 Straight Connector, Panel Mount, PCB Type, Front fastened

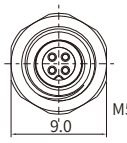
Male

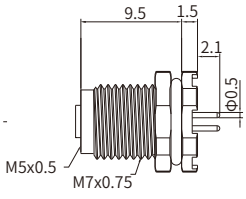



CE RoHS IP68

Female




CE RoHS IP68

## Specifications

| Contacts | 3 | 4 |
|---|---|---|
| Pin layout(Male) | | |
| Pin layout(Female) | | |

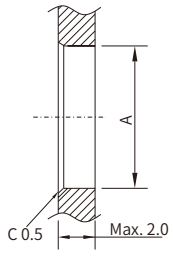
| | |
|---|---|
| Standard | IEC 61076-2-105 |
| Ambient temperature | -25°C ~ +90°C |
| Connector insert | TPU; PA+GF |
| Connector contacts | Brass with gold plated |
| Coupling nut/screw | Brass with nickel plated |
| Seal/O-ring | Epoxy resin / FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Earth tag/pin | Unavailable |
| IP rating | IP67 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 1 A |
| Rated voltage | 60V AC/DC |

## Part Number

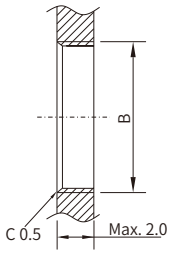
| Pins | Male | Female |
|---|---|---|
| 3 | MB05MBAFF03ST | MB05FBAFF03ST |
| 4 | MB05MBAFF04ST | MB05FBAFF04ST |

## Panel Cut-out Dimensions

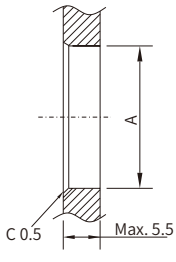
With bare hole



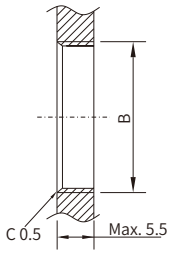

With thread to screw in




With bare hole

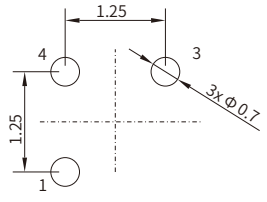



With thread to screw in

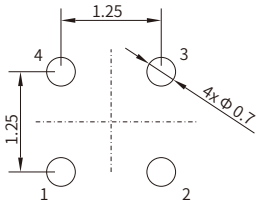



| | A | B |
|---|---|---|
| M5 | $5.0^{+0.1}_{-0}$ | M5x0.5 |
| M7 | $7.0^{+0.1}_{-0}$ | M7x0.75 |

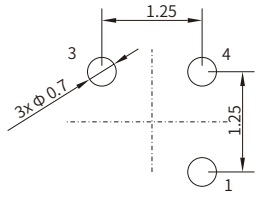
## PCB Layout



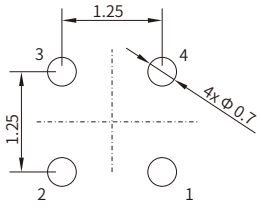

3P (Pin OD: Φ 0.5) Male




4P (Pin OD: Φ 0.5) Male




3P (Pin OD: Φ 0.5) Female

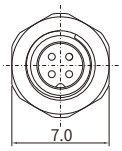


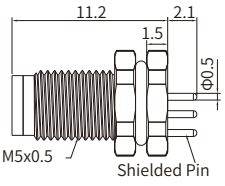

4P (Pin OD: Φ 0.5) Female

# M5 Sensor and Actuator

## M5 Straight Connector, Panel Mount, PCB Type, Front fastened, With Earth Pin

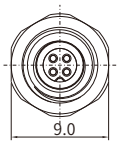
Male

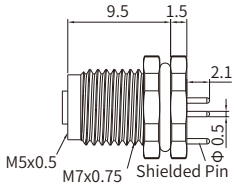



CE RoHS

Female




CE RoHS

## Specifications

| Contacts | 3 | 4 |
|---|---|---|
| Pin layout(Male) | | |
| Pin layout(Female) | | |

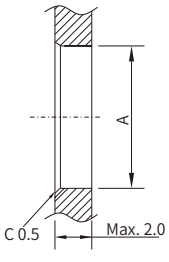
| | |
|---|---|
| Standard | IEC 61076-2-105 |
| Ambient temperature | -25°C ~ +90°C |
| Connector insert | TPU; PA+GF |
| Connector contacts | Brass with gold plated |
| Coupling nut/screw | Brass with nickel plated |
| Seal/O-ring | Epoxy resin / FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Earth tag/pin | Available |
| IP rating | IP67 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 1 A |
| Rated voltage | 60V AC/DC |

## Part Number

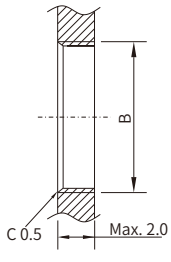
| Pins | Male | Female |
|---|---|---|
| 3 | MB05MBSAFF03ST | MB05FBSAFF03ST |
| 4 | MB05MBSAFF04ST | MB05FBSAFF04ST |

## Panel Cut-out Dimensions

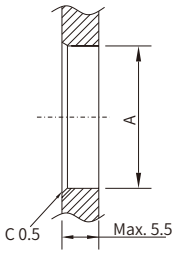
With bare hole



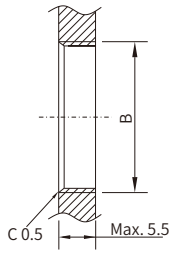

With thread to screw in




With bare hole

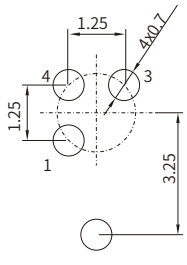



With thread to screw in

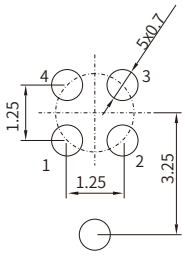



| | A | B |
|---|---|---|
| M5 | $5.0^{+0.1}_{-0}$ | M5x0.5 |
| M7 | $7.0^{+0.1}_{-0}$ | M7x0.75 |

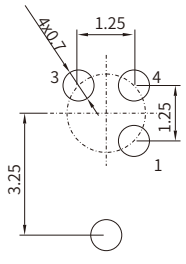
## PCB Layout



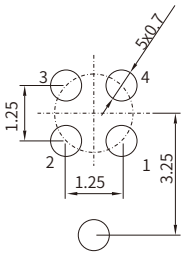

3P (Pin OD: Φ 0.5) Male




4P (Pin OD: Φ 0.5) Male




3P (Pin OD: Φ 0.5) Female

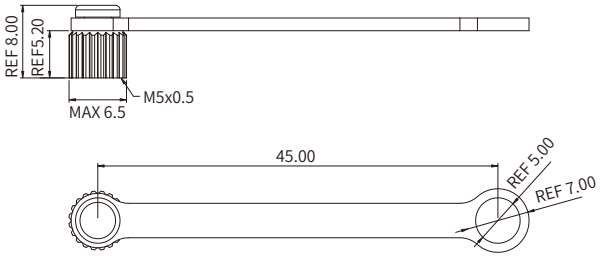



4P (Pin OD: Φ 0.5) Female

# M5 ProtectionCap

## M5 Protection Cap for Male Connector

- Connector series: M5
- Gender: For male
- Locking type: Fix screw
- Part No.: PCNM5x0.5-3

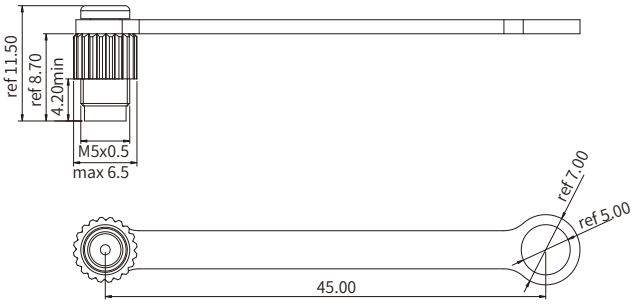



## General information

| | |
|---|---|
| Nut/Screw: | PA+GF |
| Line: | TPU |
| Gasket: | FKM |
| IP rating: | IP67 in locked condition |

## M5 Protection Cap for Female Connector

- Connector series: M5
- Gender: For female
- Locking type: Fix screw
- Part No.: PCSM5x0.5-3




## General information

| | |
|---|---|
| Nut/Screw: | PA+GF |
| Line: | TPU |
| IP rating: | IP67 in locked condition |

# Circular **sensor**
## connectors

## M8 cables & connectors

The M8 Series provides a wide range of metric M8 connectors for small sensors and actuators. Available in a shielded form and rated to IP67, these connectors are ideally suited for industrial control networks where small sensors are required. Connectors are either factory TPU over-molded or panel receptacle supplied with a solder-cup for wire connecting or with PCB panel solder contacts. A field attachable/mountable connector is also available.

- Design as per IEC 61076-2-104
- Degree of protection IP67
- 3, 4, 5, 6, 8 poles are available
- 360° EMC shielding is available for molded cable type
- TPU over molded or PA+GF shell
- Anti-vibration locking screw design
- Cable length customized, PUR and PVC cable options

# M8 Quick Search Table

## M8 cables & connectors

**M8**
**Quick Search Table**

| | Available Coding | A-coding | | A-coding | |
|---|---|---|---|---|---|
| | Rated Current | 3A | | 3A | |
| | Voltage | 50V(A/C), 60V(D/C) | | 50V(A/C), 60V(D/C) | |
| | Wire Gauge / size | 24AWG / 0.25mm² | | 24AWG / 0.25mm² | |
| | Pin layout | Male | Female | Male | Female |
| **Molded Cable** | | 03 Pins | | 04 Pins | |
| | Straight Connector, Molded Cable | 059 | 059 | 059 | 059 |
| | Straight Connector, Molded Cable, Plastic Nut | - | 060 | - | 060 |
| | Straight Connector, Molded Cable, Shielded | 061 | 061 | 061 | 061 |
| | Straight Connector, Molded Cable, Snap-in Type | 062 | 062 | 062 | 062 |
| | Angled Connector, Molded Cable | 063 | 063 | 063 | 063 |
| | Angled Connector, Molded Cable, Plastic | - | 064 | - | 064 |
| | Angled Connector, Molded Cable, Shielded | 065 | 065 | 065 | 065 |
| | Angled Connector, Molded Cable, Snap-in Type | 066 | 066 | 066 | 066 |
| | Angled Connector, Molded Cable, Plastic | - | 067 | - | 067 |
| **Assembly Type** | | 03 Pins | | 04 Pins | |
| | Straight Field Wirable Assembly, Screw joint, Thin type | 068 | 068 | 068 | 068 |
| | Straight Connector, Field Wirable Assembly, Solder | 069 | 069 | 069 | 069 |
| | Straight Field Wirable Assembly, Screw joint | 070 | 070 | 070 | 070 |
| | Angled Connector, Field Wirable Assembly, Screw joint | 071 | 071 | 071 | 071 |
| | Angled Connector, Field Wirable Assembly, Solder | - | 072 | - | 072 |
| | Straight Connector, Field Wirable Assembly, Screw joint, Shielded | 073 | 073 | 073 | 073 |
| **Panel Mount Type** | | 03 Pins | | 04 Pins | |
| | Straight Connector, Panel Mount, Solder, Front fastened | 074 | 074 | 074 | 074 |
| | Straight Connector, Panel Mount, Solder, Rear fastened | 075 | 075 | 075 | 075 |
| | Straight Connector, Panel Mount, Solder | 076 | 076 | 076 | 076 |
| | Straight Connector, Panel Mount, Solder, With LED indicator Rear fastened | - | - | 077 | - |
| | Straight Connector, Panel Mount, PCB Type, Front fastened | 078 | 078 | 078 | 078 |
| | Straight Connector, Panel Mount, PCB Type, Front fastened | 079 | - | 079 | - |
| | Straight Connector, Panel Mount, PCB Type, Front fastened, With Earth Pin | 080 | 080 | 080 | 080 |
| | Straight Connector, Panel Mount, PCB Type, Rear fastened, With Earth Pin | - | - | - | - |
| | Angled Connector, Panel Mount, Angled, PCB Type, Front fastened, With Earth Pin | 081 | 081 | 081 | 081 |
| | Straight Connector, SMT Type | 082 | 082 | 082 | 082 |
| | Terminator, Straight, with LED Indicator | 083 | - | 083 | - |
| **Splitter Connector** | | 03 Pins | | 04 Pins | |
| | Male-Female Panel Mount | 106 | 106 | 106 | 106 |
| | Y-Splitter, Male-2*Female | 107 | 107 | 107 | 107 |
| | L-Adapter, Male-Female | 108 | 108 | 108 | 108 |
| **Protection Cap** | | | | | |
| | Protection Cap for Female Connector | 109 | | | |
| | Protection Cap for Female Connector | 109 | | | |
| | Protection Cap for Male Snap in Connector | 110 | | | |
| | Protection Cap for Female Connector | 110 | | | |
| | Protection Cap for Male Molded Cable Connector | 111 | | | |
| | Protection Cap for Female Molded Cable Connector | 111 | | | |
| | Protection Cap for Male Panel-mount Connector | 112 | | | |
| | Protection Cap for Female Panel-mount Connector | 112 | | | |
| | Protection Cap for Male Panel-mount Connector | 113 | | | |
| | Protection Cap for Female Panel-mount Connector | 113 | | | |

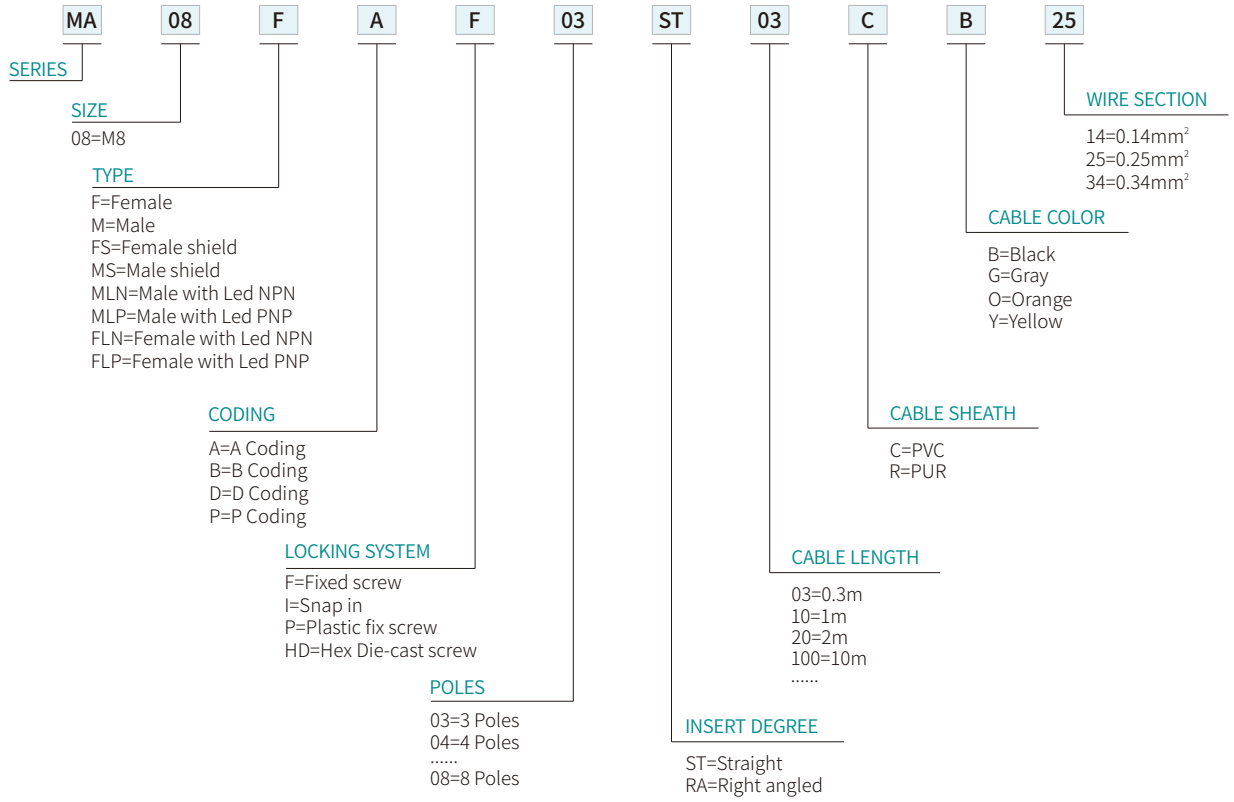
# M8 Quick Search Table

## M8 cables & connectors

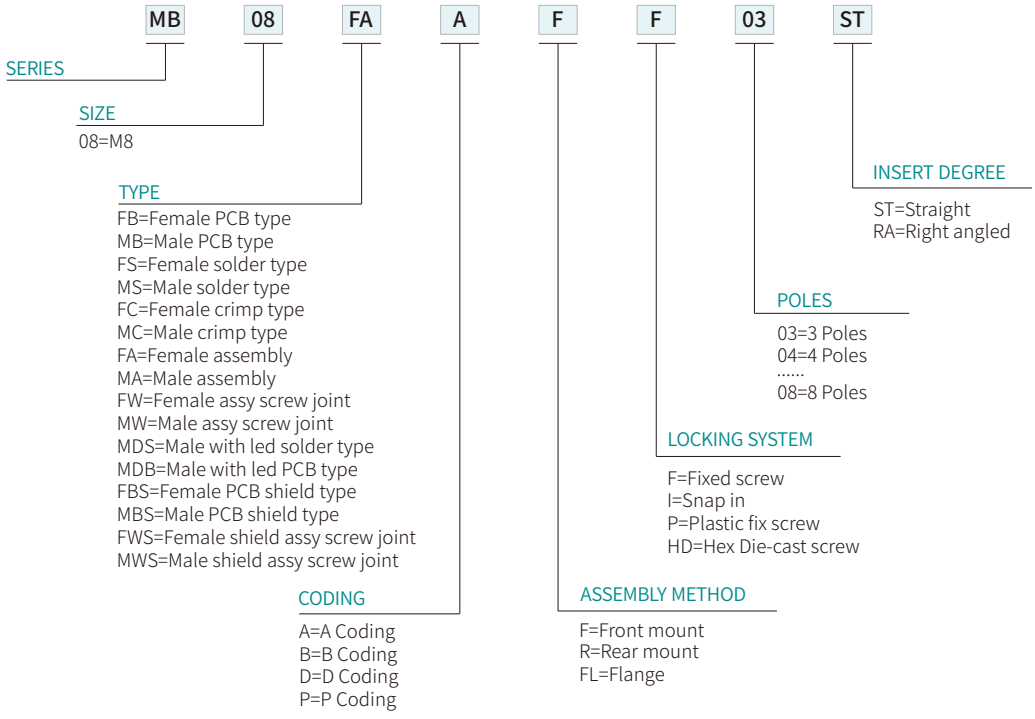
| D-coding | | P-coding | | B-coding | | A-coding | | | |
|---|---|---|---|---|---|---|---|---|---|
| 4A | | 3A | | 3A | | 1.5A | | | |
| 50V(A/C), 60V(D/C) | | 50V AC / 60V DC | | 30V(A/C), 30V(D/C) | | 30V(A/C), 30V(D/C) | | | |
| 22AWG / 0.34mm² | | | | 24AWG / 0.25mm² | | 26AWG / 0.14mm² | | | |
| | | | | | | | | | |
| Male | Female | Male | Female | Male | Female | Male | Female | Male | Female |
| 04 Pins | | | | 05 Pins | | 06 Pins | | 08 Pins | |
| 099 | 099 | - | - | 084 | 084 | 059 | 059 | 059 | 059 |
| - | - | - | - | - | 085 | - | 060 | - | 060 |
| 100 | 100 | - | - | 086 | 086 | 061 | 061 | 061 | 061 |
| - | - | - | - | - | - | - | - | - | - |
| 101 | 101 | - | - | 087 | 087 | 063 | 063 | 063 | 063 |
| - | - | - | - | 088 | 088 | - | 064 | - | 064 |
| - | - | - | - | 089 | 089 | 065 | 065 | 065 | 065 |
| - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - |
| 04 Pins | | | | 05 Pins | | 06 Pins | | 08 Pins | |
| - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | 090 | 090 | 069 | 069 | 069 | 069 |
| - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | 091 | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - |
| 04 Pins | | | | 05 Pins | | 06 Pins | | 08 Pins | |
| 102 | 102 | - | - | 092 | 092 | 074 | 074 | 074 | 074 |
| - | - | - | - | 093 | 093 | 075 | 075 | 075 | 075 |
| - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | 094 | 094 | 078 | 078 | 078 | 078 |
| - | - | - | - | 095 | - | - | - | - | - |
| - | - | 103 | 103 | 096 | 096 | 080 | 080 | 080 | 080 |
| - | - | - | 104 | 097 | 097 | 081 | 081 | 081 | 081 |
| - | - | 105 | 105 | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | 098 | - | - | - | - | - |
| 04 Pins | | | | 05 Pins | | 06 Pins | | 08 Pins | |
| - | - | - | - | 106 | 106 | - | - | - | - |
| - | - | - | - | 107 | 107 | - | - | - | - |
| - | - | - | - | 108 | 108 | - | - | - | - |

## How to Order Part Number

### M8 Series with cable molded



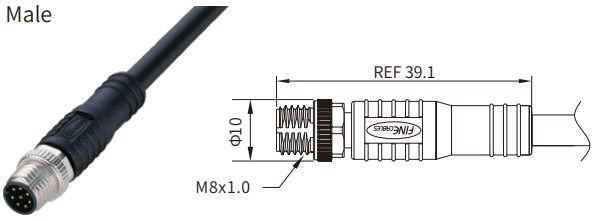

### M8 Series Assembly / Panel-mount type



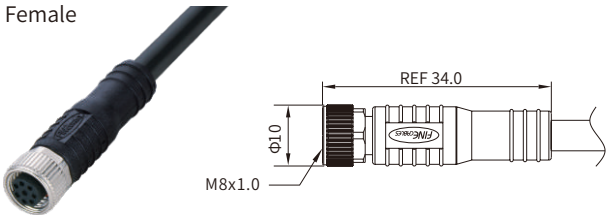
# M8 A-coding (Sensor and Actuator)

## M8 A-coding Straight Connector, Molded Cable

Male




Female




CE RoHS IP67

CE RoHS IP67

## Specifications

| Contacts | 3 | 4 | 6 | 8 |
|---|---|---|---|---|
| Certification | cULus LISTED CYJV(CYJV7).E321413 | | | |
| Pin layout(Male) | | | | |
| Pin layout(Female) | | | | |
| Standard | IEC 61076-2-104 | | | |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | | | |
| Connector insert | TPU | | | |
| Connector contacts | Brass with gold plated | | | |
| Connector overmold | TPU | | | |
| Coupling nut/screw | Zinc alloy with nickel plated | | | |
| Seal/O-ring(of Female) | FKM | | | |
| Insulation resistance | ⩾100MΩ | | | |
| Contact resistance | ⩽5mΩ | | | |
| Shielding | Unavailable | | | |
| IP rating | IP67 in locked condition | | | |
| Mating endurance | >500 cycles | | | |
| Rated current | 3 A | | 1.5 A | |
| Rated voltage | 50V AC/ 60V DC | | 30V | |
| Wire gauge | 0.25mm² (AWG24) | | 0.14mm² (AWG26) | |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 3 | 1m | MA08MAHD03ST10CB25 | MA08MAHD03ST10RB25 | MA08FAHD03ST10CB25 | MA08FAHD03ST10RB25 |
| | 3m | MA08MAHD03ST30CB25 | MA08MAHD03ST30RB25 | MA08FAHD03ST30CB25 | MA08FAHD03ST30RB25 |
| | 5m | MA08MAHD03ST50CB25 | MA08MAHD03ST50RB25 | MA08FAHD03ST50CB25 | MA08FAHD03ST50RB25 |
| 4 | 1m | MA08MAHD04ST10CB25 | MA08MAHD04ST10RB25 | MA08FAHD04ST10CB25 | MA08FAHD04ST10RB25 |
| | 3m | MA08MAHD04ST30CB25 | MA08MAHD04ST30RB25 | MA08FAHD04ST30CB25 | MA08FAHD04ST30RB25 |
| | 5m | MA08MAHD04ST50CB25 | MA08MAHD04ST50RB25 | MA08FAHD04ST50CB25 | MA08FAHD04ST50RB25 |
| 6 | 1m | MA08MAHD06ST10CB14 | MA08MAHD06ST10RB14 | MA08FAHD06ST10CB14 | MA08FAHD06ST10RB14 |
| | 3m | MA08MAHD06ST30CB14 | MA08MAHD06ST30RB14 | MA08FAHD06ST30CB14 | MA08FAHD06ST30RB14 |
| | 5m | MA08MAHD06ST50CB14 | MA08MAHD06ST50RB14 | MA08FAHD06ST50CB14 | MA08FAHD06ST50RB14 |
| 8 | 1m | MA08MAHD08ST10CB14 | MA08MAHD08ST10RB14 | MA08FAHD08ST10CB14 | MA08FAHD08ST10RB14 |
| | 3m | MA08MAHD08ST30CB14 | MA08MAHD08ST30RB14 | MA08FAHD08ST30CB14 | MA08FAHD08ST30RB14 |
| | 5m | MA08MAHD08ST50CB14 | MA08MAHD08ST50RB14 | MA08FAHD08ST50CB14 | MA08FAHD08ST50RB14 |

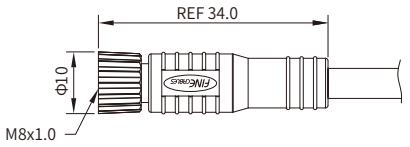
## Default wire colors

| Pin No. | | | | |
|---|---|---|---|---|
| Pin 1 | BN | BN | BN | WH |
| Pin 2 | | WH | WH | BN |
| Pin 3 | BU | BU | BU | GN |
| Pin 4 | BK | BK | BK | YE |
| Pin 5 | | | GY | GY |
| Pin 6 | | | RK | RK |
| Pin 7 | | | | BU |
| Pin 8 | | | | RD |

# M8 A-coding (Sensor and Actuator)

## M8 A-coding Straight Connector, Molded Cable, Plastic Nut

Female




CE RoHS

## Specifications

| Contacts | 3 | 4 | 6 | 8 |
|---|---|---|---|---|
| Pin layout(Female) | | | | |
| Standard | IEC 61076-2-104 | | | |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | | | |
| Connector insert | TPU | | | |
| Connector contacts | Brass with gold plated | | | |
| Connector overmold | TPU | | | |
| Coupling nut/screw | PA+GF | | | |
| Seal/O-ring(of Female) | FKM | | | |
| Insulation resistance | ⩾100MΩ | | | |
| Contact resistance | ⩽5mΩ | | | |
| Shielding | Unavailable | | | |
| IP rating | IP67 in locked condition | | | |
| Mating endurance | >500 cycles | | | |
| Rated current | 3 A | | 1.5 A | |
| Rated voltage | 50V AC/ 60V DC | | 30V | |
| Wire gauge | 0.25mm$^2$ (AWG24) | | 0.14mm$^2$ (AWG26) | |

## Part Number

| Pins | Cable length | Female | |
|---|---|---|---|
| | | PVC | PUR |
| 3 | 1m | MA08FAP03ST10CB25 | MA08FAP03ST10RB25 |
| | 3m | MA08FAP03ST30CB25 | MA08FAP03ST30RB25 |
| | 5m | MA08FAP03ST50CB25 | MA08FAP03ST50RB25 |
| 4 | 1m | MA08FAP04ST10CB25 | MA08FAP04ST10RB25 |
| | 3m | MA08FAP04ST30CB25 | MA08FAP04ST30RB25 |
| | 5m | MA08FAP04ST50CB25 | MA08FAP04ST50RB25 |
| 6 | 1m | MA08FAP06ST10CB14 | MA08FAP06ST10RB14 |
| | 3m | MA08FAP06ST30CB14 | MA08FAP06ST30RB14 |
| | 5m | MA08FAP06ST50CB14 | MA08FAP06ST50RB14 |
| 8 | 1m | MA08FAP08ST10CB14 | MA08FAP08ST10RB14 |
| | 3m | MA08FAP08ST30CB14 | MA08FAP08ST30RB14 |
| | 5m | MA08FAP08ST50CB14 | MA08FAP08ST50RB14 |

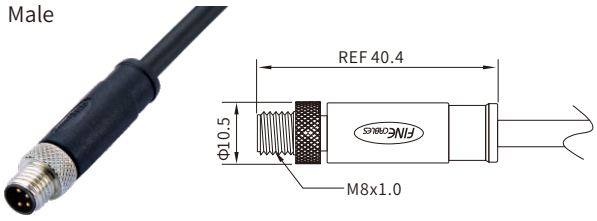
## Default wire colors

| Pin No. | | | | |
|---|---|---|---|---|
| Pin 1 | BN | BN | BN | WH |
| Pin 2 | | WH | WH | BN |
| Pin 3 | BU | BU | BU | GN |
| Pin 4 | BK | BK | BK | YE |
| Pin 5 | | | GY | GY |
| Pin 6 | | | RK | RK |
| Pin 7 | | | | BU |
| Pin 8 | | | | RD |

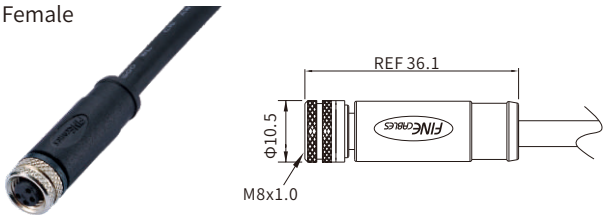
# M8 A-coding (Sensor and Actuator)

## M8 A-coding Straight Connector, Molded Cable, Shielded

Male




Female




CE RoHS IP67

CE RoHS IP67

## Specifications

| Contacts | 3 | 4 | 6 | 8 |
|---|---|---|---|---|
| Certification | cULus LISTED CYJV(CYJV7).E321413 | | | |
| Pin layout(Male) | | | | |
| Pin layout(Female) | | | | |
| Standard | IEC 61076-2-104 | | | |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | | | |
| Connector insert | TPU | | | |
| Connector contacts | Brass with gold plated | | | |
| Connector overmold | TPU | | | |
| Coupling nut/screw | Brass with nickel plated | | | |
| Seal/O-ring(of Female) | FKM | | | |
| Insulation resistance | ⩾100MΩ | | | |
| Contact resistance | ⩽5mΩ | | | |
| Shielding | Available | | | |
| IP rating | IP67 in locked condition | | | |
| Mating endurance | >500 cycles | | | |
| Rated current | 3 A | | 1.5 A | |
| Rated voltage | 50V AC/ 60V DC | | 30V | |
| Wire gauge | 0.25mm²(AWG24) | | 0.14mm²(AWG26) | |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 3 | 1m | MA08MSAF03ST10CB25 | MA08MSAF03ST10RB25 | MA08FSAF03ST10CB25 | MA08FSAF03ST10RB25 |
| | 3m | MA08MSAF03ST30CB25 | MA08MSAF03ST30RB25 | MA08FSAF03ST30CB25 | MA08FSAF03ST30RB25 |
| | 5m | MA08MSAF03ST50CB25 | MA08MSAF03ST50RB25 | MA08FSAF03ST50CB25 | MA08FSAF03ST50RB25 |
| 4 | 1m | MA08MSAF04ST10CB25 | MA08MSAF04ST10RB25 | MA08FSAF04ST10CB25 | MA08FSAF04ST10RB25 |
| | 3m | MA08MSAF04ST30CB25 | MA08MSAF04ST30RB25 | MA08FSAF04ST30CB25 | MA08FSAF04ST30RB25 |
| | 5m | MA08MSAF04ST50CB25 | MA08MSAF04ST50RB25 | MA08FSAF04ST50CB25 | MA08FSAF04ST50RB25 |
| 6 | 1m | MA08MSAF06ST10CB14 | MA08MSAF06ST10RB14 | MA08FSAF06ST10CB14 | MA08FSAF06ST10RB14 |
| | 3m | MA08MSAF06ST30CB14 | MA08MSAF06ST30RB14 | MA08FSAF06ST30CB14 | MA08FSAF06ST30RB14 |
| | 5m | MA08MSAF06ST50CB14 | MA08MSAF06ST50RB14 | MA08FSAF06ST50CB14 | MA08FSAF06ST50RB14 |
| 8 | 1m | MA08MSAF08ST10CB14 | MA08MSAF08ST10RB14 | MA08FSAF08ST10CB14 | MA08FSAF08ST10RB14 |
| | 3m | MA08MSAF08ST30CB14 | MA08MSAF08ST30RB14 | MA08FSAF08ST30CB14 | MA08FSAF08ST30RB14 |
| | 5m | MA08MSAF08ST50CB14 | MA08MSAF08ST50RB14 | MA08FSAF08ST50CB14 | MA08FSAF08ST50RB14 |

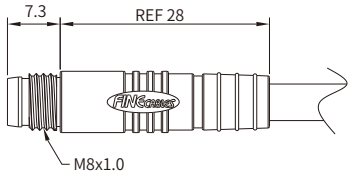
## Default wire colors

| Pin No. | | | | |
|---|---|---|---|---|
| Pin 1 | BN | BN | BN | WH |
| Pin 2 | | WH | WH | BN |
| Pin 3 | BU | BU | BU | GN |
| Pin 4 | BK | BK | BK | YE |
| Pin 5 | | | GY | GY |
| Pin 6 | | | RK | RK |
| Pin 7 | | | | BU |
| Pin 8 | | | | RD |
| Shell | Braid | | | |

# M8 A-coding (Sensor and Actuator)

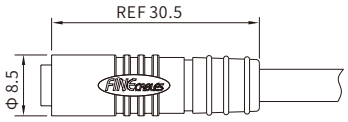
## M8 A-coding Straight Connector, Molded Cable, Snap-in Type

Male




CE RoHS IP67

Female




CE RoHS IP65

## Specifications

| Contacts | 3 | 4 |
|---|---|---|
| Certification | cULus LISTED CYJV(CYJV7).E321413 | |
| Pin layout(Male) | | |
| Pin layout(Female) | | |
| Standard | IEC 61076-2-104 | |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | |
| Connector insert | TPU;PA | |
| Connector contacts | Brass with gold plated | |
| Connector overmold | TPU | |
| Insulation resistance | ⩾100MΩ | |
| Contact resistance | ⩽5mΩ | |
| Shielding | Available | |
| IP rating | IP67 in locked condition/ IP65 snap in | |
| Mating endurance | >500 cycles | |
| Rated current | 3 A | |
| Rated voltage | 50V AC/ 60V DC | |
| Wire gauge | 0.25mm$^2$(AWG24) | |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 3 | 1m | MA08MAI03ST10CB25 | MA08MAI03ST10RB25 | MA08FAI03ST10CB25 | MA08FAI03ST10RB25 |
| | 3m | MA08MAI03ST30CB25 | MA08MAI03ST30RB25 | MA08FAI03ST30CB25 | MA08FAI03ST30RB25 |
| | 5m | MA08MAI03ST50CB25 | MA08MAI03ST50RB25 | MA08FAI03ST50CB25 | MA08FAI03ST50RB25 |
| 4 | 1m | MA08MAI04ST10CB25 | MA08MAI04ST10RB25 | MA08FAI04ST10CB25 | MA08FAI04ST10RB25 |
| | 3m | MA08MAI04ST30CB25 | MA08MAI04ST30RB25 | MA08FAI04ST30CB25 | MA08FAI04ST30RB25 |
| | 5m | MA08MAI04ST50CB25 | MA08MAI04ST50RB25 | MA08FAI04ST50CB25 | MA08FAI04ST50RB25 |

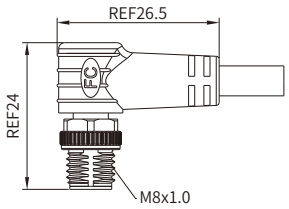
## Default wire colors

| Pin No. | | |
|---|---|---|
| Pin 1 | BN | BN |
| Pin 2 | | WH |
| Pin 3 | BU | BU |
| Pin 4 | BK | BK |

# M8 A-coding (Sensor and Actuator)

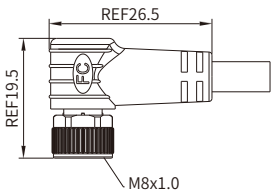
## M8 A-coding Angled Connector, Molded Cable

Male




CE RoHS IP67

Female




CE RoHS IP67

## Specifications

| Contacts | 3 | 4 | 6 | 8 |
|---|---|---|---|---|
| Certification | cULus LISTED CYJV(CYJV7).E321413 | | | |
| Pin layout(Male) | | | | |
| Pin layout(Female) | | | | |
| Standard | IEC 61076-2-104 | | | |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | | | |
| Connector insert | TPU;PA | | | |
| Connector contacts | Brass with gold plated | | | |
| Connector overmold | TPU | | | |
| Coupling nut/screw | Zinc alloy with nickel plated | | | |
| Seal/O-ring(of Female) | FKM | | | |
| Insulation resistance | ⩾100MΩ | | | |
| Contact resistance | ⩽5mΩ | | | |
| Shielding | Unavailable | | | |
| IP rating | IP67 in locked condition | | | |
| Mating endurance | >500 cycles | | | |
| Rated current | 3 A | | 1.5 A | |
| Rated voltage | 50V AC/ 60V DC | | 30V | |
| Wire gauge | 0.25mm²(AWG24) | | 0.14mm²(AWG26) | |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 3 | 1m | MA08MAHD03RA10CB25 | MA08MAHD03RA10RB25 | MA08FAHD03RA10CB25 | MA08FAHD03RA10RB25 |
| | 3m | MA08MAHD03RA30CB25 | MA08MAHD03RA30RB25 | MA08FAHD03RA30CB25 | MA08FAHD03RA30RB25 |
| | 5m | MA08MAHD03RA50CB25 | MA08MAHD03RA50RB25 | MA08FAHD03RA50CB25 | MA08FAHD03RA50RB25 |
| 4 | 1m | MA08MAHD04RA10CB25 | MA08MAHD04RA10RB25 | MA08FAHD04RA10CB25 | MA08FAHD04RA10RB25 |
| | 3m | MA08MAHD04RA30CB25 | MA08MAHD04RA30RB25 | MA08FAHD04RA30CB25 | MA08FAHD04RA30RB25 |
| | 5m | MA08MAHD04RA50CB25 | MA08MAHD04RA50RB25 | MA08FAHD04RA50CB25 | MA08FAHD04RA50RB25 |
| 6 | 1m | MA08MAHD06RA10CB14 | MA08MAHD06RA10RB14 | MA08FAHD06RA10CB14 | MA08FAHD06RA10RB14 |
| | 3m | MA08MAHD06RA30CB14 | MA08MAHD06RA30RB14 | MA08FAHD06RA30CB14 | MA08FAHD06RA30RB14 |
| | 5m | MA08MAHD06RA50CB14 | MA08MAHD06RA50RB14 | MA08FAHD06RA50CB14 | MA08FAHD06RA50RB14 |
| 8 | 1m | MA08MAHD08RA10CB14 | MA08MAHD08RA10RB14 | MA08FAHD08RA10CB14 | MA08FAHD08RA10RB14 |
| | 3m | MA08MAHD08RA30CB14 | MA08MAHD08RA30RB14 | MA08FAHD08RA30CB14 | MA08FAHD08RA30RB14 |
| | 5m | MA08MAHD08RA50CB14 | MA08MAHD08RA50RB14 | MA08FAHD08RA50CB14 | MA08FAHD08RA50RB14 |

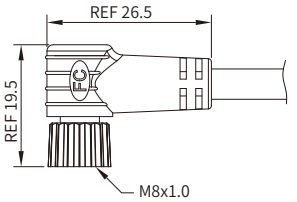
## Default wire colors

| Pin No. | | | | |
|---|---|---|---|---|
| Pin 1 | BN | BN | BN | WH |
| Pin 2 | | WH | WH | BN |
| Pin 3 | BU | BU | BU | GN |
| Pin 4 | BK | BK | BK | YE |
| Pin 5 | | | GY | GY |
| Pin 6 | | | RK | RK |
| Pin 7 | | | | BU |
| Pin 8 | | | | RD |

# M8 A-coding (Sensor and Actuator)

## M8 A-coding Angled Connector, Molded Cable, Plastic

Female




CE RoHS

## Specifications

| Contacts | 3 | 4 | 6 | 8 |
|---|---|---|---|---|
| Pin layout(Female) | | | | |
| Standard | IEC 61076-2-104 | | | |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | | | |
| Connector insert | TPU;PA | | | |
| Connector contacts | Brass with gold plated | | | |
| Connector overmold | TPU | | | |
| Coupling nut/screw | PA+GF | | | |
| Seal/O-ring(of Female) | FKM | | | |
| Insulation resistance | ⩾100MΩ | | | |
| Contact resistance | ⩽5mΩ | | | |
| Shielding | Unavailable | | | |
| IP rating | IP67 in locked condition | | | |
| Mating endurance | >500 cycles | | | |
| Rated current | 3 A | | 1.5 A | |
| Rated voltage | 50V AC/ 60V DC | | 30V | |
| Wire gauge | 0.25mm$^2$ (AWG24) | | 0.14mm$^2$ (AWG26) | |

## Part Number

| Pins | Cable length | Female | |
|---|---|---|---|
| | | PVC | PUR |
| 3 | 1m | MA08FAP03RA10CB25 | MA08FAP03RA10RB25 |
| | 3m | MA08FAP03RA30CB25 | MA08FAP03RA30RB25 |
| | 5m | MA08FAP03RA50CB25 | MA08FAP03RA50RB25 |
| 4 | 1m | MA08FAP04RA10CB25 | MA08FAP04RA10RB25 |
| | 3m | MA08FAP04RA30CB25 | MA08FAP04RA30RB25 |
| | 5m | MA08FAP04RA50CB25 | MA08FAP04RA50RB25 |
| 6 | 1m | MA08FAP06RA10CB14 | MA08FAP06RA10RB14 |
| | 3m | MA08FAP06RA30CB14 | MA08FAP06RA30RB14 |
| | 5m | MA08FAP06RA50CB14 | MA08FAP06RA50RB14 |
| 8 | 1m | MA08FAP08RA10CB14 | MA08FAP08RA10RB14 |
| | 3m | MA08FAP08RA30CB14 | MA08FAP08RA30RB14 |
| | 5m | MA08FAP08RA50CB14 | MA08FAP08RA50RB14 |

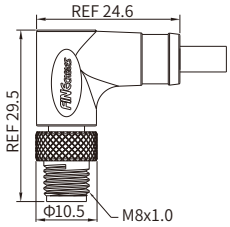
## Default wire colors

| Pin No. | | | | |
|---|---|---|---|---|
| Pin 1 | BN | BN | BN | WH |
| Pin 2 | | WH | WH | BN |
| Pin 3 | BU | BU | BU | GN |
| Pin 4 | BK | BK | BK | YE |
| Pin 5 | | | GY | GY |
| Pin 6 | | | RK | RK |
| Pin 7 | | | | BU |
| Pin 8 | | | | RD |

# M8 A-coding (Sensor and Actuator)

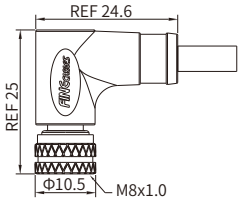
## M8 A-coding Angled Connector, Molded Cable, Shielded

Male




CE RoHS IP67

Female




CE RoHS IP67

## Specifications

| Contacts | 3 | 4 | 6 | 8 |
|---|---|---|---|---|
| Certification | cULus LISTED CYJV(CYJV7).E321413 | | | |
| Pin layout(Male) | | | | |
| Pin layout(Female) | | | | |
| Standard | IEC 61076-2-104 | | | |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | | | |
| Connector insert | TPU | | | |
| Connector contacts | Brass with gold plated | | | |
| Connector overmold | TPU | | | |
| Coupling nut/screw | Brass with nickel plated | | | |
| Seal/O-ring(of Female) | FKM | | | |
| Insulation resistance | ⩾100MΩ | | | |
| Contact resistance | ⩽5mΩ | | | |
| Shielding | Available | | | |
| IP rating | IP67 in locked condition | | | |
| Mating endurance | >500 cycles | | | |
| Rated current | 3 A | | 1.5 A | |
| Rated voltage | 50V AC/ 60V DC | | 30V | |
| Wire gauge | 0.25mm²(AWG24) | | 0.14mm²(AWG26) | |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 3 | 1m | MA08MSAF03RA10CB25 | MA08MSAF03RA10RB25 | MA08FSAF03RA10CB25 | MA08FSAF03RA10RB25 |
| | 3m | MA08MSAF03RA30CB25 | MA08MSAF03RA30RB25 | MA08FSAF03RA30CB25 | MA08FSAF03RA30RB25 |
| | 5m | MA08MSAF03RA50CB25 | MA08MSAF03RA50RB25 | MA08FSAF03RA50CB25 | MA08FSAF03RA50RB25 |
| 4 | 1m | MA08MSAF04RA10CB25 | MA08MSAF04RA10RB25 | MA08FSAF04RA10CB25 | MA08FSAF04RA10RB25 |
| | 3m | MA08MSAF04RA30CB25 | MA08MSAF04RA30RB25 | MA08FSAF04RA30CB25 | MA08FSAF04RA30RB25 |
| | 5m | MA08MSAF04RA50CB25 | MA08MSAF04RA50RB25 | MA08FSAF04RA50CB25 | MA08FSAF04RA50RB25 |
| 6 | 1m | MA08MSAF06RA10CB14 | MA08MSAF06RA10RB14 | MA08FSAF06RA10CB14 | MA08FSAF06RA10RB14 |
| | 3m | MA08MSAF06RA30CB14 | MA08MSAF06RA30RB14 | MA08FSAF06RA30CB14 | MA08FSAF06RA30RB14 |
| | 5m | MA08MSAF06RA50CB14 | MA08MSAF06RA50RB14 | MA08FSAF06RA50CB14 | MA08FSAF06RA50RB14 |
| 8 | 1m | MA08MSAF08RA10CB14 | MA08MSAF08RA10RB14 | MA08FSAF08RA10CB14 | MA08FSAF08RA10RB14 |
| | 3m | MA08MSAF08RA30CB14 | MA08MSAF08RA30RB14 | MA08FSAF08RA30CB14 | MA08FSAF08RA30RB14 |
| | 5m | MA08MSAF08RA50CB14 | MA08MSAF08RA50RB14 | MA08FSAF08RA50CB14 | MA08FSAF08RA50RB14 |

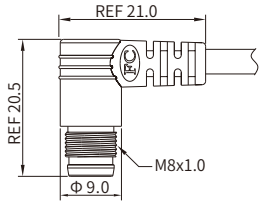
## Default wire colors

| Pin No. | | | | |
|---|---|---|---|---|
| Pin 1 | BN | BN | BN | WH |
| Pin 2 | | WH | WH | BN |
| Pin 3 | BU | BU | BU | GN |
| Pin 4 | BK | BK | BK | YE |
| Pin 5 | | | GY | GY |
| Pin 6 | | | RK | RK |
| Pin 7 | | | | BU |
| Pin 8 | | | | RD |
| Shell | Braid | | | |

# M8 A-coding (Sensor and Actuator)

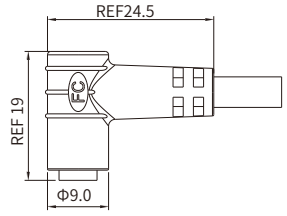
## M8 A-coding Angled Connector, Molded Cable, Snap-in Type

Male




CE RoHS

Female




CE RoHS

## Specifications

| Contacts | 3 | 4 |
|---|---|---|
| Pin layout(Male) | | |
| Pin layout(Female) | | |
| Standard | IEC 61076-2-104 | |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | |
| Connector insert | PA+GF; TPU;PA | |
| Connector contacts | Brass with gold plated | |
| Connector overmold | TPU | |
| Insulation resistance | ⩾100MΩ | |
| Contact resistance | ⩽5mΩ | |
| Shielding | Unavailable | |
| IP rating | IP67 in locked condition/ IP65 snap in | |
| Mating endurance | >500 cycles | |
| Rated current | 3 A | |
| Rated voltage | 50V AC/ 60V DC | |
| Wire gauge | 0.25mm²(AWG24) | |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 3 | 1m | MA08MAI03RA10CB25 | MA08MAI03RA10RB25 | MA08FAI03RA10CB25 | MA08FAI03RA10RB25 |
| | 3m | MA08MAI03RA30CB25 | MA08MAI03RA30RB25 | MA08FAI03RA30CB25 | MA08FAI03RA30RB25 |
| | 5m | MA08MAI03RA50CB25 | MA08MAI03RA50RB25 | MA08FAI03RA50CB25 | MA08FAI03RA50RB25 |
| 4 | 1m | MA08MAI04RA10CB25 | MA08MAI04RA10RB25 | MA08FAI04RA10CB25 | MA08FAI04RA10RB25 |
| | 3m | MA08MAI04RA30CB25 | MA08MAI04RA30RB25 | MA08FAI04RA30CB25 | MA08FAI04RA30RB25 |
| | 5m | MA08MAI04RA50CB25 | MA08MAI04RA50RB25 | MA08FAI04RA50CB25 | MA08FAI04RA50RB25 |

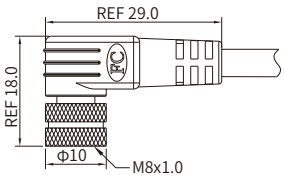
## Default wire colors

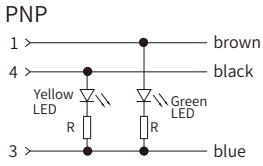
| Pin No. | | |
|---|---|---|
| Pin 1 | BN | BN |
| Pin 2 | | WH |
| Pin 3 | BU | BU |
| Pin 4 | BK | BK |

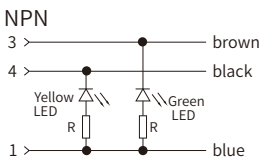
# M8 A-coding (Sensor and Actuator)

## M8 A-coding Angled Connector, Molded Cable, Plastic

Female




CE RoHS IP67

## Specifications

| Contacts | 3 | 4 |
|---|---|---|
| Pin layout(Female) | | |
| Standard | IEC 61076-2-104 | |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | |
| Connector insert | TPU;PA | |
| Connector contacts | Brass with gold plated | |
| Connector overmold | Transparent TPU | |
| Coupling nut/screw | Brass with nickel plated | |
| Seal/O-ring(of Female) | FKM | |
| Insulation resistance | ⩾100MΩ | |
| Contact resistance | ⩽5mΩ | |
| Shielding | Unavailable | |
| IP rating | IP67 in locked condition | |
| Mating endurance | >500 cycles | |
| Rated current | 3 A | |
| Rated voltage | 50V AC/ 60V DC | |
| Wire gauge | 0.25mm$^2$(AWG24) | |

## Part Number

| Pins | Cable length | PVC | | PUR | |
|---|---|---|---|---|---|
| | | PNP | NPN | PNP | NPN |
| 3 | 1m | MA08FLPAF03RA10CB25 | MA08FLNAF03RA10CB25 | MA08FLPAF03RA10RB25 | MA08FLNAF03RA10RB25 |
| | 3m | MA08FLPAF03RA30CB25 | MA08FLNAF03RA30CB25 | MA08FLPAF03RA30RB25 | MA08FLNAF03RA30RB25 |
| | 5m | MA08FLPAF03RA50CB25 | MA08FLNAF03RA50CB25 | MA08FLPAF03RA50RB25 | MA08FLNAF03RA50RB25 |
| 4 | 1m | MA08FLPAF04RA10CB25 | MA08FLNAF04RA10CB25 | MA08FLPAF04RA10RB25 | MA08FLNAF04RA10RB25 |
| | 3m | MA08FLPAF04RA30CB25 | MA08FLNAF04RA30CB25 | MA08FLPAF04RA30RB25 | MA08FLNAF04RA30RB25 |
| | 5m | MA08FLPAF04RA50CB25 | MA08FLNAF04RA50CB25 | MA08FLPAF04RA50RB25 | MA08FLNAF04RA50RB25 |

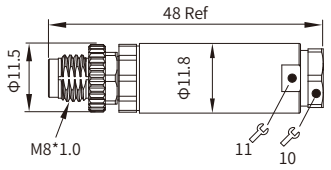
## Default wire colors

| Pin No. | | |
|---|---|---|
| Pin 1 | BN | BN |
| Pin 2 | | WH |
| Pin 3 | BU | BU |
| Pin 4 | BK | BK |

# M8 A-coding (Sensor and Actuator)

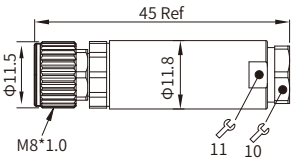
## M8 A-coding Straight Field Wirable Assembly, Screw joint, Thin type

Male




CE RoHS

Female




CE RoHS

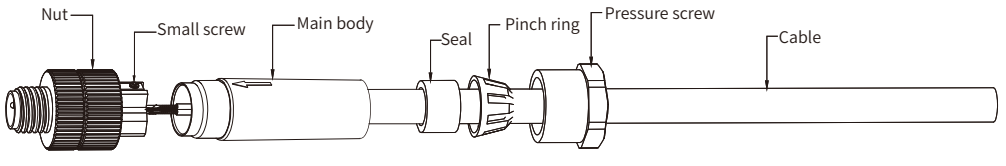
## Specifications

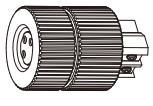
| Contacts | 3 | 4 |
|---|---|---|
| Pin layout(Male) | | |
| Pin layout(Female) | | |
| Standard | IEC 61076-2-104 | |
| Ambient temperature | -25°C ~ +90°C | |
| Connector insert | PA+GF | |
| Connector contacts | Brass with gold plated | |
| Coupling nut/screw | Brass with nickel plated | |
| Connector body | PA+GF | |
| Seal/O-ring | NBR/HNBR | |
| Insulation resistance | ⩾100MΩ | |
| Contact resistance | ⩽5mΩ | |
| Shielding | Unavailable | |
| Suitable cable Dia | 3.5~5.0mm | |
| IP rating | IP67 in locked condition | |
| Mating endurance | >500 cycles | |
| Rated current | 3 A | |
| Rated voltage | 50V/AC 60V/DC | |
| Wire gauge | 0.14~0.5mm$^2$(AWG20~26) | |

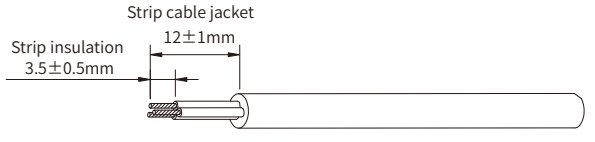
## Part Number

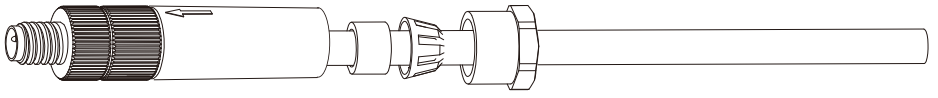
| Pins | Male | Female |
|---|---|---|
| 3 | MB08MWAFH03STB | MB08FWAFH03STB |
| 4 | MB08MWAFH04STB | MB08FWAFH04STB |

## Assembly Instruction



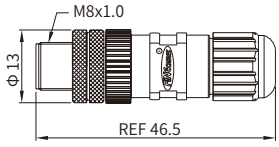


# M8 A-coding (Sensor and Actuator)

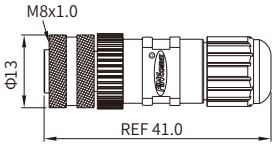
## M8 A-coding Straight Connector, Field Wirable Assembly, Solder

Male




CE RoHS

Female




CE RoHS

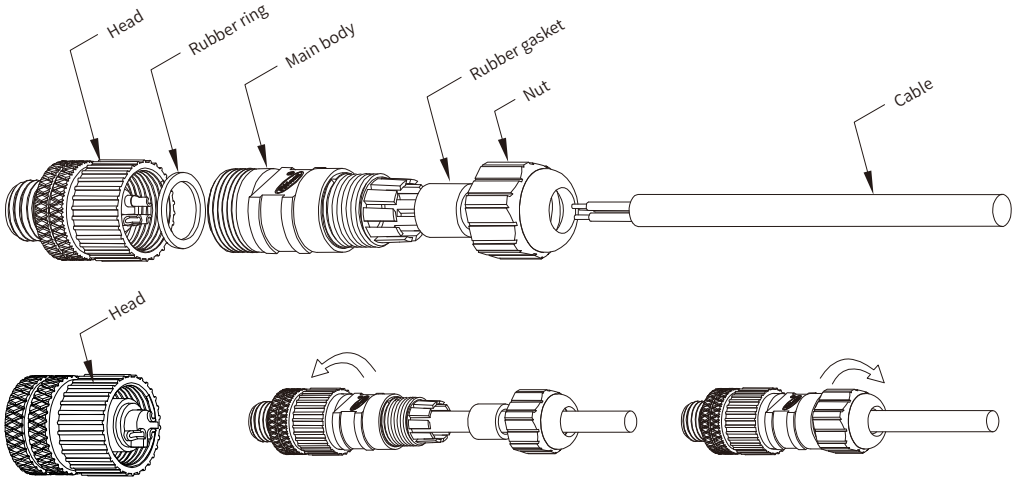
## Specifications

| Contacts | 3 | 4 | 6 | 8 |
|---|---|---|---|---|
| Certification | cULus LISTED CYJV(CYJV7).E321413 | | | |
| Pin layout(Male) | | | | |
| Pin layout(Female) | | | | |
| Standard | IEC 61076-2-104 | | | |
| Ambient temperature | -40°C ~ +90°C | | | |
| Connector insert | TPU;PA | | | |
| Connector contacts | Brass with gold plated | | | |
| Coupling nut/screw | Brass with nickel plated | | | |
| Seal/O-ring | FKM | | | |
| Insulation resistance | ⩾100MΩ | | | |
| Contact resistance | ⩽5mΩ | | | |
| Shielding | Unavailable | | | |
| Suitable cable Dia | 3.5~5.0mm | | | |
| IP rating | IP65 in locked condition | | | |
| Mating endurance | >500 cycles | | | |
| Rated current | 3 A | | 1.5 A | |
| Rated voltage | 50V AC/ 60V DC | | 30V | |
| Wire gauge | 0.25mm² (AWG24) | | 0.14mm² (AWG26) | |

## Part Number

| Pins | Male | Female |
|---|---|---|
| 3 | MB08MAAFF03ST | MB08FAAFF03ST |
| 4 | MB08MAAFF04ST | MB08FAAFF04ST |
| 6 | MB08MAAFF06ST | MB08FAAFF06ST |
| 8 | MB08MAAFF08ST | MB08FAAFF08ST |

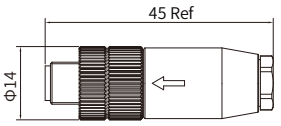
## Assembly Instruction



# M8 A-coding (Sensor and Actuator)

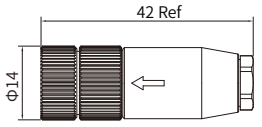
## M8 A-coding Straight Field Wirable Assembly, Screw joint

Male




CE RoHS

Female




CE RoHS

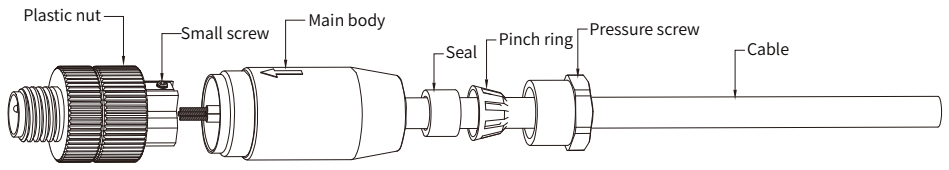
## Specifications

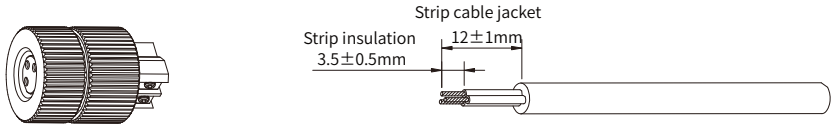
| Contacts | 3 | 4 |
|---|---|---|
| Pin layout(Male) | | |
| Pin layout(Female) | | |
| Standard | IEC 61076-2-104 | |
| Ambient temperature | -40°C ~ +90°C | |
| Connector insert | PA+GF | |
| Connector contacts | Brass with gold plated | |
| Coupling nut/screw | Brass with nickel plated | |
| Connector body | PA+GF | |
| Seal/O-ring | FKM | |
| Insulation resistance | ⩾100MΩ | |
| Contact resistance | ⩽5mΩ | |
| Shielding | Unavailable | |
| Suitable cable Dia | 3.5~4.5mm | |
| IP rating | IP68 in locked condition | |
| Mating endurance | >500 cycles | |
| Rated current | 3 A | |
| Rated voltage | 60V AC/DC | 60V AC/DC |
| Wire gauge | 0.25mm$^2$ (AWG24) | |

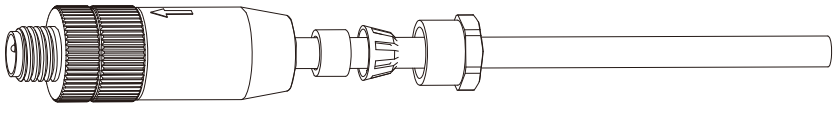
## Part Number

| Pins | Male | Female |
|---|---|---|
| 3 | MB08MWAFF03ST | MB08FWAFF03ST |
| 4 | MB08MWAFF04ST | MB08FWAFF04ST |

## Assembly Instruction



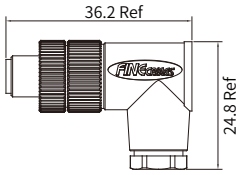



# M8 A-coding (Sensor and Actuator)

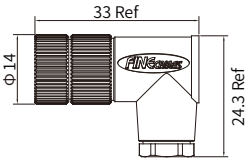
## M8 A-coding Angled Connector, Field Wirable Assembly, Screw Joint

Male




CE RoHS IP67

Female




CE RoHS IP67

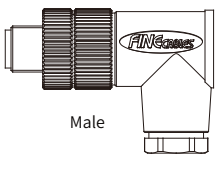
## Specifications

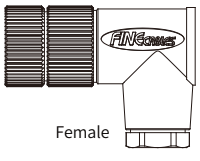
| Contacts | 3 | 4 |
|---|---|---|
| Pin layout(Male) | | |
| Pin layout(Female) | | |
| Standard | IEC 61076-2-104 | |
| Ambient temperature | -40°C ~ +90°C | |
| Connector insert | TPU;PA | |
| Connector contacts | Brass with gold plated | |
| Coupling nut/screw | Brass with nickel plated | |
| Seal/O-ring | FKM | |
| Insulation resistance | ⩾100MΩ | |
| Contact resistance | ⩽5mΩ | |
| Shielding | Unavailable | |
| Suitable cable Dia | 3.5~5.0mm | |
| IP rating | IP67 in locked condition | |
| Mating endurance | >500 cycles | |
| Rated current | 3 A | |
| Rated voltage | 50V AC/ 60V DC | |
| Wire gauge | 0.25mm²(AWG24) | |

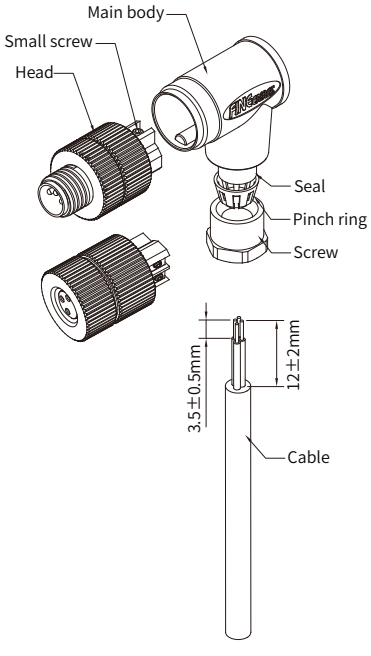
## Part Number

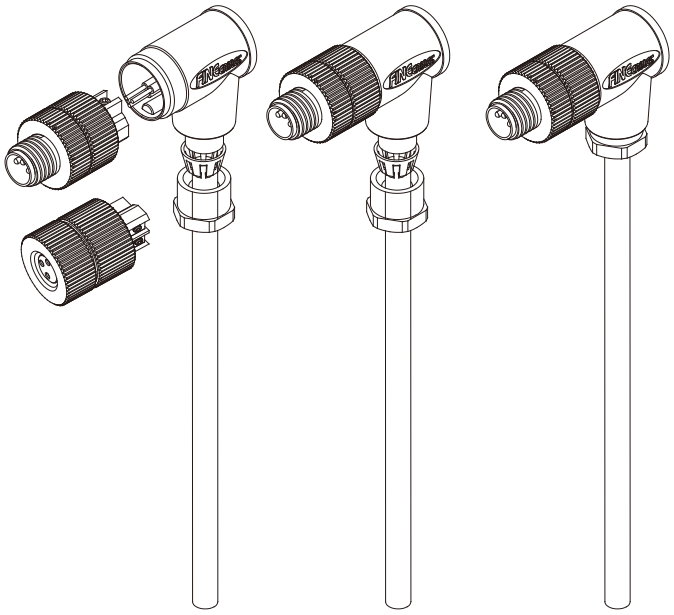
| Pins | Male | Female |
|---|---|---|
| 3 | MB08MWAFF03RA | MB08FWAFF03RA |
| 4 | MB08MWAFF04RA | MB08FWAFF04RA |

## Assembly Instruction



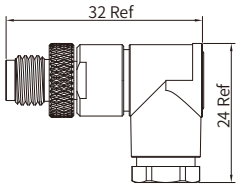



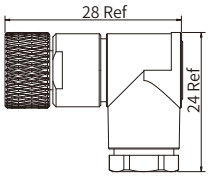
# M8 A-coding (Sensor and Actuator)

## M8 A-coding Angled Connector, Field Wirable Assembly, Solder

Male




Female




CE RoHS

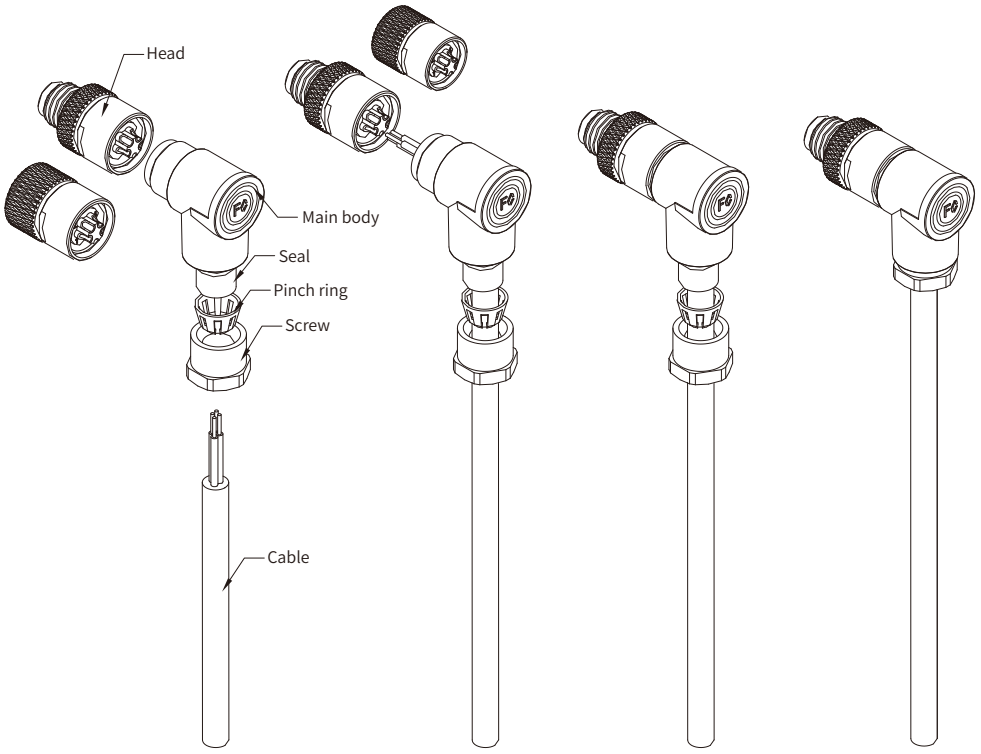
## Specifications

| Contacts | 3 | 4 |
|---|---|---|
| Pin layout(Male) | | |
| Pin layout(Female) | | |
| Standard | IEC 61076-2-104 | |
| Ambient temperature | -40°C ~ +90°C | |
| Connector insert | TPU;PA | |
| Connector contacts | Brass with gold plated | |
| Coupling nut/screw | Brass with nickel plated | |
| Seal/O-ring | FKM | |
| Insulation resistance | ⩾100MΩ | |
| Contact resistance | ⩽5mΩ | |
| Shielding | Unavailable | |
| Suitable cable Dia | 3.5~5.0mm | |
| IP rating | IP67 in locked condition | |
| Mating endurance | >500 cycles | |
| Rated current | 3 A | |
| Rated voltage | 50V AC/ 60V DC | |
| Wire gauge | 0.25mm²(AWG24) | |

## Part Number

| Pins | Male | Female |
|---|---|---|
| 3 | MB08MAFF03RA | MB08FAFF03RA |
| 4 | MB08MAFF04RA | MB08FAFF04RA |

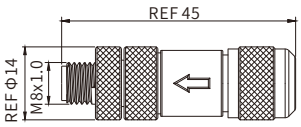
## Assembly Instruction



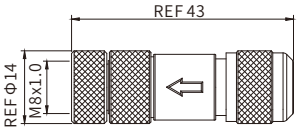
# M8 A-coding (Sensor and Actuator)

## M8 A-coding Straight Connector, Field Wirable Assembly, Screw joint, Shielded

Male




Female




CE RoHS IP67

CE RoHS IP67

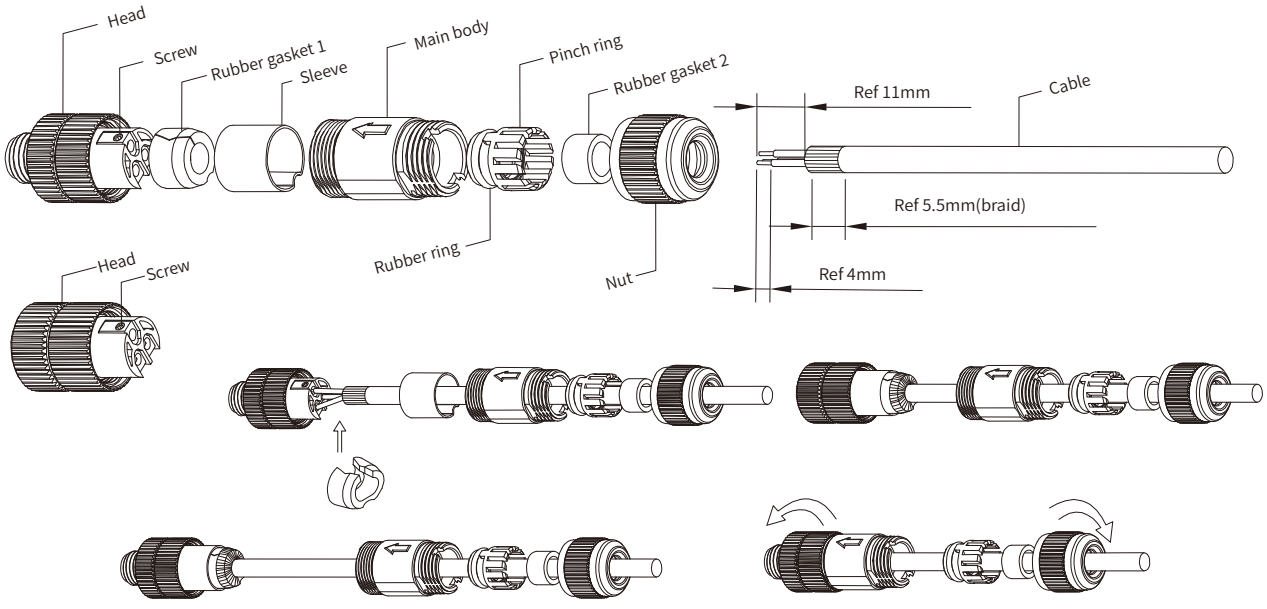
## Specifications

| Contacts | 3 | 4 |
|---|---|---|
| Certification | cULus LISTED CYJV(CYJV7).E321413 | |
| Pin layout(Male) | | |
| Pin layout(Female) | | |
| Standard | IEC 61076-2-104 | |
| Ambient temperature | -40°C ~ +90°C | |
| Connector insert | TPU;PA | |
| Connector contacts | Brass with gold plated | |
| Coupling nut/screw | Brass with nickel plated | |
| Connector body | Zinc alloy with nickel plated | |
| Seal/O-ring | FKM | |
| Insulation resistance | ⩾100MΩ | |
| Contact resistance | ⩽5mΩ | |
| Shielding | Available | |
| Suitable cable Dia | A: 3.5~4.5mm, B: 4.5~5.5mm | |
| IP rating | IP67 in locked condition | |
| Mating endurance | >500 cycles | |
| Rated current | 3 A | |
| Rated voltage | 50V AC/ 60V DC | |
| Wire gauge | 0.25mm² (AWG24) | |

## Part Number

| Pins | Male | Female |
|---|---|---|
| 3 | MB08MWSAFF03ST-A | MB08FWSAFF03ST-A |
| | MB08MWSAFF03ST-B | MB08FWSAFF03ST-B |
| 4 | MB08MWSAFF04ST-A | MB08FWSAFF04ST-A |
| | MB08MWSAFF04ST-B | MB08FWSAFF04ST-B |

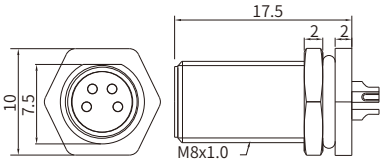
## Assembly Instruction



# M8 A-coding (Sensor and Actuator)

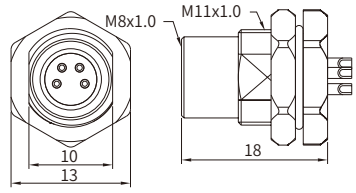
## M8 A-coding Straight Connector, Panel Mount, Solder, Front fastened

Male




CE RoHS

Female




CE RoHS

## Specifications

| Contacts | 3 | 4 | 6 | 8 |
|---|---|---|---|---|
| Certification | cULus LISTED CYJV(CYJV7).E321413 | | | |
| Pin layout(Male) | | | | |
| Pin layout(Female) | | | | |
| Standard | IEC 61076-2-104 | | | |
| Ambient temperature | -15°C~+85°C (flexible installation), -30°C~+85°C (fixed installation) | | | |
| Customized temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | | | |
| Connector insert | TPU | | | |
| Connector contacts | Brass with gold plated | | | |
| Coupling nut/screw | Brass with nickel plated | | | |
| Seal/O-ring | Epoxy resin / FKM | | | |
| Insulation resistance | ⩾100MΩ | | | |
| Contact resistance | ⩽5mΩ | | | |
| Earth tag/pin | Unavailable | | | |
| IP rating | IP67 in locked condition | | | |
| Mating endurance | >500 cycles | | | |
| Rated current | 3 A | | 1.5 A | |
| Rated voltage | 50V AC/ 60V DC | | 30V | |
| Wire gauge | 0.25mm² (AWG24) | | 0.14mm² (AWG26) | |
| Panel cut-out | Refer to page 115 | | | |

## Part Number

| Pins | wire length | Male | Female |
|---|---|---|---|
| 3 | 0.1m | MB08MSAFF03ST-2501 | MB08FSAFF03ST-2501 |
| | 0.3m | MB08MSAFF03ST-2503 | MB08FSAFF03ST-2503 |
| 4 | 0.1m | MB08MSAFF04ST-2501 | MB08FSAFF04ST-2501 |
| | 0.3m | MB08MSAFF04ST-2503 | MB08FSAFF04ST-2503 |
| 6 | 0.1m | MB08MSAFF06ST-1401 | MB08FSAFF06ST-1401 |
| | 0.3m | MB08MSAFF06ST-1403 | MB08FSAFF06ST-1403 |
| 8 | 0.1m | MB08MSAFF08ST-1401 | MB08FSAFF08ST-1401 |
| | 0.3m | MB08MSAFF08ST-1403 | MB08FSAFF08ST-1403 |

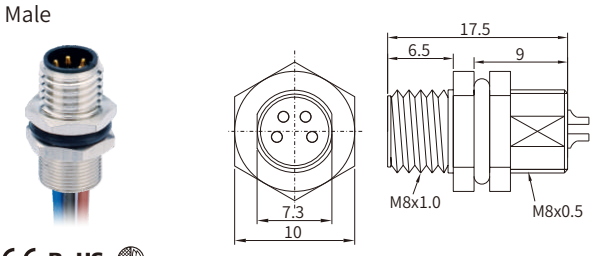
## Default wire colors

| Pin No. | | | | |
|---|---|---|---|---|
| Pin 1 | BN | BN | BN | WH |
| Pin 2 | | WH | WH | BN |
| Pin 3 | BU | BU | BU | GN |
| Pin 4 | BK | BK | BK | YE |
| Pin 5 | | | GY | GY |
| Pin 6 | | | RK | RK |
| Pin 7 | | | | BU |
| Pin 8 | | | | RD |

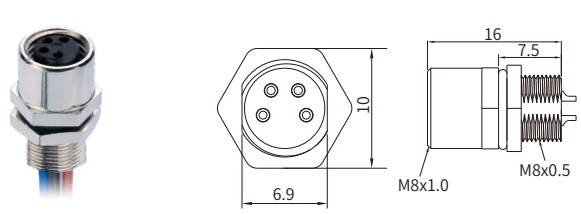
# M8 A-coding (Sensor and Actuator)

## M8 A-coding Straight Connector, Panel Mount, Solder, Rear fastened

Male




Female




## Specifications

| Contacts | 3 | 4 | 6 | 8 |
|---|---|---|---|---|
| Certification | CYJV(CYJV7).E321413 | | | |
| Pin layout(Male) | | | | |
| Pin layout(Female) | | | | |
| Standard | IEC 61076-2-104 | | | |
| Ambient temperature | -15°C~+85°C (flexible installation), -30°C~+85°C (fixed installation) | | | |
| Customized temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | | | |
| Connector insert | TPU | | | |
| Connector contacts | Brass with gold plated | | | |
| Coupling nut/screw | Brass with nickel plated | | | |
| Seal/O-ring | Epoxy resin / FKM | | | |
| Insulation resistance | ⩾100MΩ | | | |
| Contact resistance | ⩽5mΩ | | | |
| Earth tag/pin | Unavailable | | | |
| IP rating | IP67 in locked condition | | | |
| Mating endurance | >500 cycles | | | |
| Rated current | 3 A | | 1.5 A | |
| Rated voltage | 50V AC/ 60V DC | | 30V | |
| Wire gauge | 0.25mm²(AWG24) | | 0.14mm²(AWG26) | |
| Panel cut-out | Refer to page 115 | | | |

## Part Number

| Pins | wire length | Male | Female |
|---|---|---|---|
| 3 | 0.1m | MB08MSARF03ST-2501 | MB08FSARF03ST-2501 |
| | 0.3m | MB08MSARF03ST-2503 | MB08FSARF03ST-2503 |
| 4 | 0.1m | MB08MSARF04ST-2501 | MB08FSARF04ST-2501 |
| | 0.3m | MB08MSARF04ST-2503 | MB08FSARF04ST-2503 |
| 6 | 0.1m | MB08MSARF06ST-1401 | MB08FSARF06ST-1401 |
| | 0.3m | MB08MSARF06ST-1403 | MB08FSARF06ST-1403 |
| 8 | 0.1m | MB08MSARF08ST-1401 | MB08FSARF08ST-1401 |
| | 0.3m | MB08MSARF08ST-1403 | MB08FSARF08ST-1403 |

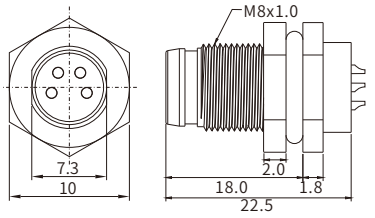
## Default wire colors

| Pin No. | | | | |
|---|---|---|---|---|
| Pin 1 | BN | BN | BN | WH |
| Pin 2 | | WH | WH | BN |
| Pin 3 | BU | BU | BU | GN |
| Pin 4 | BK | BK | BK | YE |
| Pin 5 | | | GY | GY |
| Pin 6 | | | RK | RK |
| Pin 7 | | | | BU |
| Pin 8 | | | | RD |

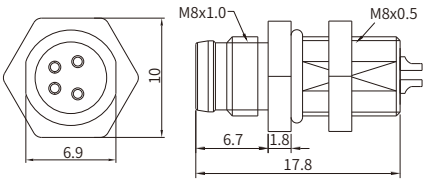
# M8 A-coding (Sensor and Actuator)

## M8 A-coding Straight Connector, Panel Mount, Solder

Male Front




Female Rear




## Specifications

| Contacts | 3 | 4 |
|---|---|---|
| Certification | CYJV(CYJV7).E321413 | |
| Pin layout(Male) | | |
| Pin layout(Female) | | |
| Standard | IEC 61076-2-104 | |
| Ambient temperature | -15°C~+85°C (flexible installation), -30°C~+85°C (fixed installation) | |
| Customized temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | |
| Connector insert | TPU | |
| Connector contacts | Brass with gold plated | |
| Coupling nut/screw | Brass with nickel plated | |
| Seal/O-ring | Epoxy resin / FKM | |
| Insulation resistance | ⩾100MΩ | |
| Contact resistance | ⩽5mΩ | |
| Earth tag/pin | Unavailable | |
| IP rating | IP67 in locked condition/ IP65 snap in | |
| Mating endurance | >500 cycles | |
| Rated current | 3 A | |
| Rated voltage | 50V AC/ 60V DC | |
| Wire gauge | 0.25mm² (AWG24) | |
| Panel cut-out | Refer to page 115 | |

## Part Number

| Pins | wire length | Male | |
|---|---|---|---|
| 3 | 0.1m | MB08MSAFI03ST-2501 | MB08MSARI03ST-2501 |
| | 0.3m | MB08MSAFI03ST-2503 | MB08MSARI03ST-2503 |
| 4 | 0.1m | MB08MSAFI04ST-2501 | MB08MSARI04ST-2501 |
| | 0.3m | MB08MSAFI04ST-2503 | MB08MSARI04ST-2503 |

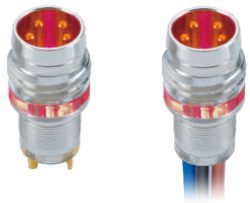
## Default wire colors

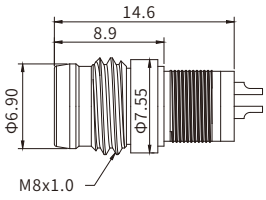
| Pin No. | | |
|---|---|---|
| Pin 1 | BN | BN |
| Pin 2 | | WH |
| Pin 3 | BU | BU |
| Pin 4 | BK | BK |

# M8 A-coding (Sensor and Actuator)

## M8 A-coding Straight Connector, Panel Mount, Solder, With LED indicator Rear fastened

Male






CE RoHS IP67

## Specifications

| Contacts | 4 |
|---|---|
| Pin layout(Male) | |
| Standard | IEC 61076-2-104 |
| Ambient temperature | -15°C~+85°C (flexible installation), -30°C~+85°C (fixed installation) |
| Customized temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) |
| Connector insert | PC |
| Connector contacts | Brass with gold plated |
| Coupling nut/screw | Brass with nickel plated |
| Insulation resistance | ≥100MΩ |
| Contact resistance | ≤5mΩ |
| Earth tag/pin | Unavailable |
| IP rating | IP67 in locked condition / IP65 snap-in |
| Mating endurance | >500 cycles |
| Rated current | 4 A |
| Rated voltage | 10~30V AC / DC |
| Wire gauge | 0.25mm²(AWG24) |
| Panel cut-out | Refer to page 115 |

## Part Number

| Pins | wire length | Male |
|---|---|---|
| 4 | 0.1m | MB08MDSAFI04ST-2501 |
| | 0.3m | MB08MDSAFI04ST-2503 |

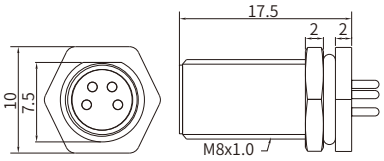
## Default wire colors

| Pin No. | |
|---|---|
| Pin 1 | BN |
| Pin 2 | WH |
| Pin 3 | BU |
| Pin 4 | BK |

# M8 A-coding (Sensor and Actuator)

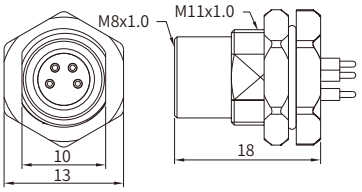
## M8 A-coding Straight Connector, Panel Mount, PCB Type, Front fastened

Male




CE RoHS

Female




CE RoHS

## Specifications

| Contacts | 3 | 4 | 6 | 8 |
|---|---|---|---|---|
| Certification | cULus LISTED CYJV(CYJV7).E321413 | | | |
| Pin layout(Male) | | | | |
| Pin layout(Female) | | | | |
| Standard | IEC 61076-2-104 | | | |
| Ambient temperature | -40°C ~ +90°C | | | |
| Connector insert | TPU | | | |
| Connector contacts | Brass with gold plated | | | |
| Coupling nut/screw | Brass with nickel plated | | | |
| Seal/O-ring | Epoxy resin / FKM | | | |
| Insulation resistance | ⩾100MΩ | | | |
| Contact resistance | ⩽5mΩ | | | |
| Earth tag/pin | Unavailable | | | |
| IP rating | IP67 in locked condition | | | |
| Mating endurance | >500 cycles | | | |
| Rated current | 3 A | | 1.5 A | |
| Rated voltage | 50V AC/ 60V DC | | 30V | |
| Panel cut-out | Refer to page 115 | | | |
| PCB layout | Refer to page 114 | | | |

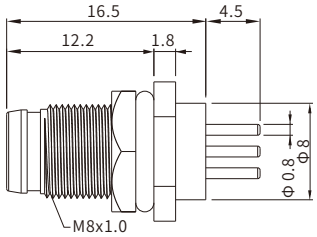
## Part Number

| Pins | Male | Female |
|---|---|---|
| 3 | MB08MBAFF03ST | MB08FBAFF03ST |
| 4 | MB08MBAFF04ST | MB08FBAFF04ST |
| 6 | MB08MBAFF06ST | MB08FBAFF06ST |
| 8 | MB08MBAFF08ST | MB08FBAFF08ST |

# M8 A-coding (Sensor and Actuator)

## M8 A-coding Straight Connector, Panel Mount, PCB Type, Front fastened

Male




CE RoHS IP67

## Specifications

| Contacts | 3 | 4 |
|---|---|---|
| Certification | cULus LISTED CYJV(CYJV7).E321413 | |
| Pin layout(Male) | | |
| Standard | IEC 61076-2-104 | |
| Ambient temperature | -40°C ~ +90°C | |
| Connector insert | TPU | |
| Connector contacts | Brass with gold plated | |
| Coupling nut/screw | Brass with nickel plated | |
| Seal/O-ring | Epoxy resin / FKM | |
| Insulation resistance | ⩾100MΩ | |
| Contact resistance | ⩽5mΩ | |
| Earth tag/pin | Unavailable | |
| IP rating | IP67 in locked condition/ IP65 snap in | |
| Mating endurance | >500 cycles | |
| Rated current | 3 A | |
| Rated voltage | 50V AC/ 60V DC | |
| Panel cut-out | Refer to page 115 | |
| PCB layout | Refer to page 114 | |

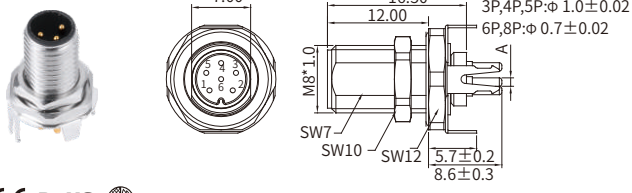
## Part Number

| Pins | Male |
|---|---|
| 3 | MB08MBAFI03ST |
| 4 | MB08MBAFI04ST |

# M8 A-coding (Sensor and Actuator)

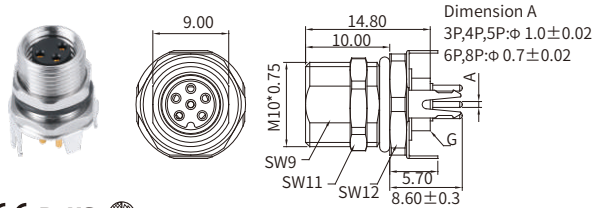
## M8 A-coding Straight Connector, Panel Mount, PCB Type, Front fastened, With Earth Pin

Male




CE RoHS

Female




CE RoHS

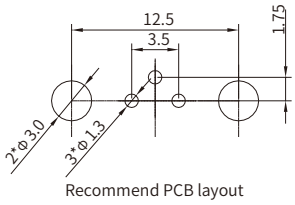
## Specifications

| Contacts | 3 | 4 | 6 | 8 |
|---|---|---|---|---|
| Pin layout(Male) | | | | |
| Pin layout(Female) | | | | |
| Standard | IEC 61076-2-104 | | | |
| Ambient temperature | -25°C ~ +90°C | | | |
| Connector insert | TPU; PA+GF | | | |
| Connector contacts | Brass with gold plated | | | |
| Coupling nut/screw | Brass with nickel plated | | | |
| Seal/O-ring | Epoxy resin / FKM | | | |
| Insulation resistance | ⩾100MΩ | | | |
| Contact resistance | ⩽5mΩ | | | |
| Earth tag/pin | Available | | | |
| IP rating | IP67 in locked condition | | | |
| Mating endurance | >500 cycles | | | |
| Rated current | 3 A | | 1.5 A | |
| Rated voltage | 50V AC/ 60V DC | | 30V AC/ DC | |

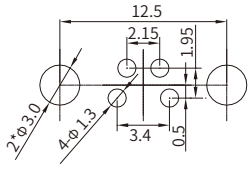
## Part Number

| Pins | Male | Female |
|---|---|---|
| 3 | MB08MBSAFF03ST | MB08FBSAFF03ST |
| 4 | MB08MBSAFF04ST | MB08FBSAFF04ST |
| 6 | MB08MBSAFF06ST | MB08FBSAFF06ST |
| 8 | MB08MBSAFF08ST | MB08FBSAFF08ST |

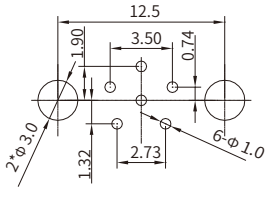
## PCB layout



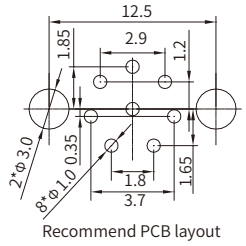

Recommend PCB layout
PCB thinkness: 1.6mm




Recommend PCB layout
PCB thinkness: 1.6mm




Recommend PCB layout
PCB thinkness: 1.6mm

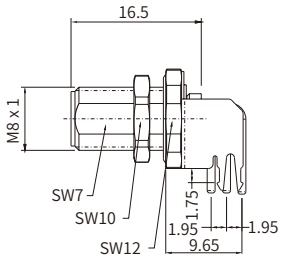



Recommend PCB layout
PCB thinkness: 1.6mm

# M8 A-coding (Sensor and Actuator)

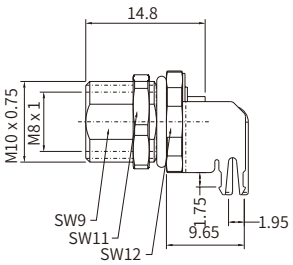
## M8 A-coding Angled Connector, Panel Mount, Angled, PCB Type, Front fastened, With Earth Pin

Male




Thickness of PCB: 1.6mm

Female




Thickness of PCB: 1.6mm

## Specifications

| Contacts | 3 | 4 | 6 | 8 |
|---|---|---|---|---|
| Certification | CYJV(CYJV7).E321413 | | | |
| Pin layout(Male) | | | | |
| Pin layout(Female) | | | | |
| Standard | IEC 61076-2-104 | | | |
| Ambient temperature | -25°C ~ +90°C | | | |
| Connector insert | TPU; PA+GF | | | |
| Connector contacts | Brass with gold plated | | | |
| Coupling nut/screw | Brass with nickel plated | | | |
| Seal/O-ring | Epoxy resin / FKM | | | |
| Insulation resistance | ⩾100MΩ | | | |
| Contact resistance | ⩽5mΩ | | | |
| Earth tag/pin | Available | | | |
| IP rating | IP67 in locked condition | | | |
| Mating endurance | >500 cycles | | | |
| Rated current | 3 A | | 1.5 A | |
| Rated voltage | 50V AC/ 60V DC | | 30V AC/ 30V DC | |
| Panel cut-out | Refer to page 115 | | | |
| PCB layout | Refer to page 114/115 | | | |

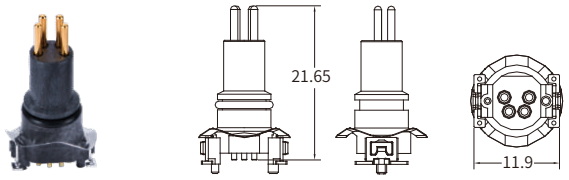
## Part Number

| Pins | Male | Female |
|---|---|---|
| 3 | MB08MBSAFF03RA | MB08FBSAFF03RA |
| 4 | MB08MBSAFF04RA | MB08FBSAFF04RA |
| 6 | MB08MBSAFF06RA | MB08FBSAFF06RA |
| 8 | MB08MBSAFF08RA | MB08FBSAFF08RA |

# M8 A-coding

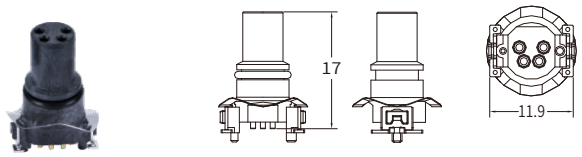
## M8 A-coding Straight Connector, SMT Type

Male




RoHS

Female




RoHS

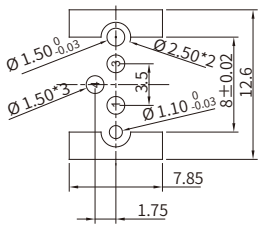
## Specifications

| Contacts | 3 | 4 |
|---|---|---|
| Pin layout(Male) | | |
| Pin layout(Female) | | |
| Standard | IEC 61076-2-104 | |
| Ambient temperature | -25°C ~ +125°C | |
| Connector insert | LCP | |
| Connector contacts | Brass with gold plated | |
| Seal/O-ring | FKM | |
| Insulation resistance | ⩾100MΩ | |
| Contact resistance | ⩽5mΩ | |
| Shielding | Available | |
| IP rating | IP67 in locked condition | |
| Mating endurance | >500 cycles | |
| Rated current | 3 A | |
| Rated voltage | 50V AC/ 60V DC | |

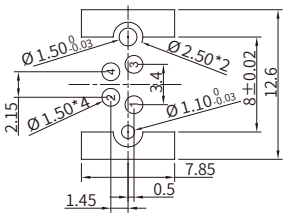
## Part Number

| Pins | Male | Female |
|---|---|---|
| 3 | MB08MTSA03ST | MB08FTSA03ST |
| 4 | MB08MTSA04ST | MB08FTSA04ST |

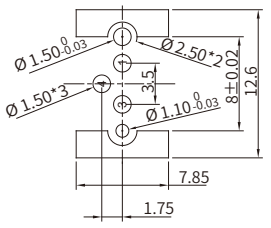
## PCB layout



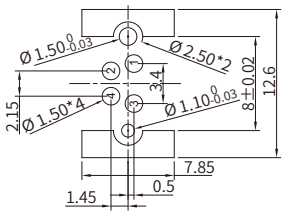

03 Pins Male




04 Pins Male



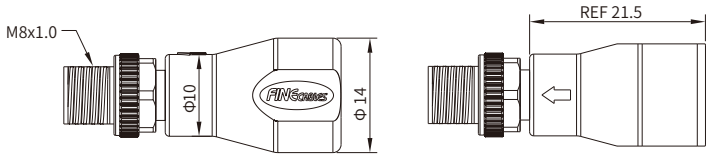

03 Pins Female




04 Pins Female

# M8 A-coding (Sensor and Actuator)

## M8 A-coding Terminator, Straight, with LED Indicator




RoHS

## Specifications

| Contacts | 3 | 4 |
|---|---|---|
| Pin layout(Male) | | |
| Ambient temperature | -25°C ~ +90°C | |
| Connector insert | PA+GF / TPU | |
| Connector contacts | Brass with gold plated | |
| Connector overmold | Transparent TPU | |
| Coupling nut/screw | Zinc alloy with nickel plated | |
| Insulation resistance | ⩾100MΩ | |
| Contact resistance | ⩽5mΩ | |
| Shielding | Unavailable | |
| IP rating | IP67 in locked condition | |
| Mating endurance | >500 cycles | |
| Rated current | 3 A | |
| Rated voltage | 50V AC/ 60V DC | |

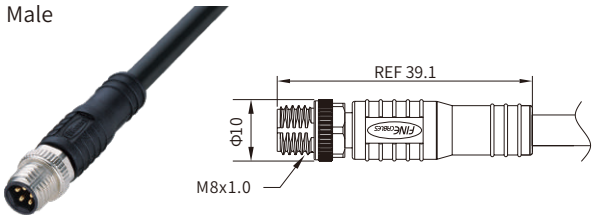
## Part Number

| Pins | Male |
|---|---|
| 3 | MA08MAHD03ST-LED |
| 4 | MA08MAHD04ST-LED |

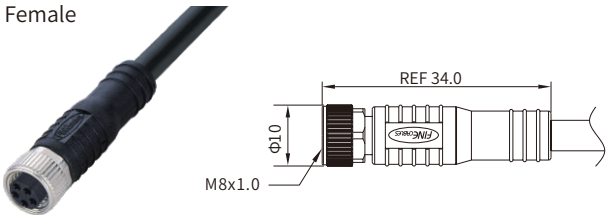
# M8 B-coding (Devicenet)

## M8 B-coding Straight Connector, Molded Cable

Male




Female




CE RoHS IP67

CE RoHS IP67

## Specifications

| | |
|---|---|
| Contacts | 5 |
| Certification | cULus LISTED CYJV(CYJV7).E321413 |
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-104 |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) |
| Connector insert | TPU |
| Connector contacts | Brass with gold plated |
| Connector overmold | TPU |
| Coupling nut/screw | Zinc alloy with nickel plated |
| Seal/O-ring(of Female) | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Shielding | Unavailable |
| IP rating | IP67 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 3 A |
| Rated voltage | 30V AC/ DC |
| Wire gauge | 0.25mm²(AWG24) |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 5 | 1m | MA08MBHD05ST10CB25 | MA08MBHD05ST10RB25 | MA08FBHD05ST10CB25 | MA08FBHD05ST10RB25 |
| | 3m | MA08MBHD05ST30CB25 | MA08MBHD05ST30RB25 | MA08FBHD05ST30CB25 | MA08FBHD05ST30RB25 |
| | 5m | MA08MBHD05ST50CB25 | MA08MBHD05ST50RB25 | MA08FBHD05ST50CB25 | MA08FBHD05ST50RB25 |

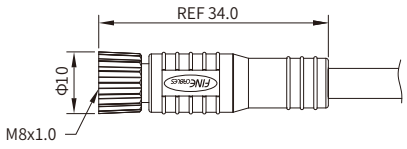
## Default wire colors

| Pin No. | |
|---|---|
| Pin 1 | Shield |
| Pin 2 | DR |
| Pin 3 | WH |
| Pin 4 | BK |
| Pin 5 | BU |

# M8 B-coding (Devicenet)

## M8 B-coding Straight Connector, Molded Cable, Plastic Nut

Female




CE RoHS IP67

## Specifications

| Contacts | 5 |
|---|---|
| Certification | cULus LISTED CYJV(CYJV7).E321413 |
| Pin layout(Female) | |
| Standard | IEC 61076-2-104 |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) |
| Connector insert | TPU |
| Connector contacts | Brass with gold plated |
| Connector overmold | TPU |
| Coupling nut/screw | PA+GF |
| Seal/O-ring(of Female) | FKM |
| Insulation resistance | ≥100MΩ |
| Contact resistance | ≤5mΩ |
| Shielding | Unavailable |
| IP rating | IP67 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 3 A |
| Rated voltage | 30V AC/DC |
| Wire gauge | 0.25mm$^2$(AWG24) |

## Part Number

| Pins | Cable length | Female | |
|---|---|---|---|
| | | PVC | PUR |
| 5 | 1m | MA08FBP05ST10CB25 | MA08FBP05ST10RB25 |
| | 3m | MA08FBP05ST30CB25 | MA08FBP05ST30RB25 |
| | 5m | MA08FBP05ST50CB25 | MA08FBP05ST50RB25 |

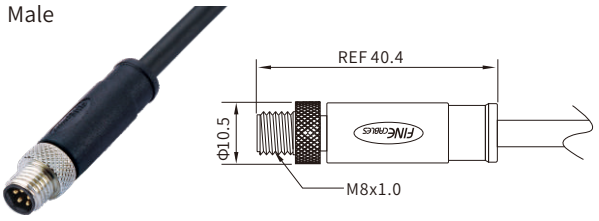
## Default wire colors

| Pin No. | |
|---|---|
| Pin 1 | Shield |
| Pin 2 | DR |
| Pin 3 | WH |
| Pin 4 | BK |
| Pin 5 | BU |

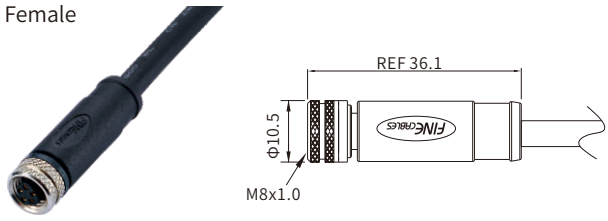
# M8 B-coding (Devicenet)

## M8 B-coding Straight Connector, Molded Cable, Shielded

Male




Female




CE RoHS IP67

CE RoHS IP67

## Specifications

| Contacts | 5 |
|---|---|
| Certification | cULus LISTED CYJV(CYJV7).E321413 |
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-104 |
| Ambient temperature | -40°C ~ +80°C(fixed installation) /-20°C ~ +80°C(flexible installation) |
| Connector insert | TPU |
| Connector contacts | Brass with gold plated |
| Connector overmold | TPU |
| Coupling nut/screw | Brass with nickel plated |
| Seal/O-ring(of Female) | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Shielding | Available |
| IP rating | IP67 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 3 A |
| Rated voltage | 30V AC / DC |
| Wire gauge | 0.25mm²(AWG24) |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 5 | 1m | MA08MSBF05ST10CB25 | MA08MSBF05ST10RB25 | MA08FSBF05ST10CB25 | MA08FSBF05ST10RB25 |
| | 3m | MA08MSBF05ST30CB25 | MA08MSBF05ST30RB25 | MA08FSBF05ST30CB25 | MA08FSBF05ST30RB25 |
| | 5m | MA08MSBF05ST50CB25 | MA08MSBF05ST50RB25 | MA08FSBF05ST50CB25 | MA08FSBF05ST50RB25 |

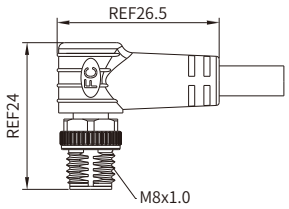
## Default wire colors

| Pin No. | |
|---|---|
| Pin 1 | Shield |
| Pin 2 | DR |
| Pin 3 | WH |
| Pin 4 | BK |
| Pin 5 | BU |
| Shell | Braid |

# M8 B-coding (Devicenet)

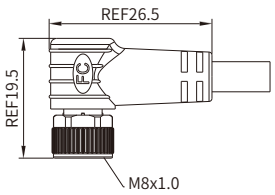
## M8 B-coding Angled Connector, Molded Cable

Male




CE RoHS

Female




CE RoHS

## Specifications

| Contacts | 5 |
|---|---|
| Certification | cULus LISTED CYJV(CYJV7).E321413 |
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-104 |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) |
| Connector insert | TPU |
| Connector contacts | Brass with gold plated |
| Connector overmold | TPU; PA |
| Coupling nut/screw | Zinc alloy with nickel plated |
| Seal/O-ring(of Female) | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Shielding | Unavailable |
| IP rating | IP67 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 3 A |
| Rated voltage | 30V AC / DC |
| Wire gauge | 0.25mm²(AWG24) |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 5 | 1m | MA08MBHD05RA10CB25 | MA08MBHD05RA10RB25 | MA08FBHD05RA10CB25 | MA08FBHD05RA10RB25 |
| | 3m | MA08MBHD05RA30CB25 | MA08MBHD05RA30RB25 | MA08FBHD05RA30CB25 | MA08FBHD05RA30RB25 |
| | 5m | MA08MBHD05RA50CB25 | MA08MBHD05RA50RB25 | MA08FBHD05RA50CB25 | MA08FBHD05RA50RB25 |

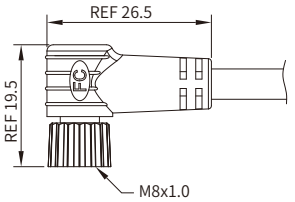
## Default wire colors

| Pin No. | |
|---|---|
| Pin 1 | Shield |
| Pin 2 | DR |
| Pin 3 | WH |
| Pin 4 | BK |
| Pin 5 | BU |

# M8 B-coding (Devicenet)

## M8 B-coding Angled Connector, Molded Cable, Plastic

Female




CE RoHS

## Specifications

| Contacts | 5 |
|---|---|
| Pin layout(Female) | |
| Standard | IEC 61076-2-104 |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) |
| Connector insert | TPU;PA |
| Connector contacts | Brass with gold plated |
| Connector overmold | TPU |
| Coupling nut/screw | PA+GF |
| Seal/O-ring(of Female) | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Shielding | Unavailable |
| IP rating | IP67 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 3 A |
| Rated voltage | 30V AC / DC |
| Wire gauge | 0.25mm$^2$(AWG24) |

## Part Number

| Pins | Cable length | Female | |
|---|---|---|---|
| | | PVC | PUR |
| 5 | 1m | MA08FBP05RA10CB25 | MA08FBP05RA10RB25 |
| | 3m | MA08FBP05RA30CB25 | MA08FBP05RA30RB25 |
| | 5m | MA08FBP05RA50CB25 | MA08FBP05RA50RB25 |

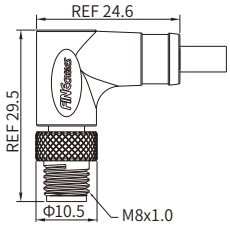
## Default wire colors

| Pin No. | |
|---|---|
| Pin 1 | Shield |
| Pin 2 | DR |
| Pin 3 | WH |
| Pin 4 | BK |
| Pin 5 | BU |

# M8 B-coding (Devicenet)

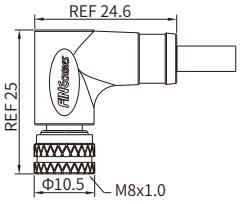
## M8 B-coding Angled Connector, Molded Cable, Shielded

Male




CE RoHS IP67

Female




CE RoHS IP67

## Specifications

| Contacts | 5 |
|---|---|
| Certification | cULus LISTED CYJV(CYJV7).E321413 |
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-104 |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) |
| Connector insert | TPU |
| Connector contacts | Brass with gold plated |
| Connector overmold | TPU |
| Coupling nut/screw | Brass with nickel plated |
| Seal/O-ring(of Female) | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Shielding | Available |
| IP rating | IP67 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 3 A |
| Rated voltage | 30V AC / DC |
| Wire gauge | 0.25mm$^2$(AWG24) |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 5 | 1m | MA08MSBF05RA10CB25 | MA08MSBF05RA10RB25 | MA08FSBF05RA10CB25 | MA08FSBF05RA10RB25 |
| | 3m | MA08MSBF05RA30CB25 | MA08MSBF05RA30RB25 | MA08FSBF05RA30CB25 | MA08FSBF05RA30RB25 |
| | 5m | MA08MSBF05RA50CB25 | MA08MSBF05RA50RB25 | MA08FSBF05RA50CB25 | MA08FSBF05RA50RB25 |

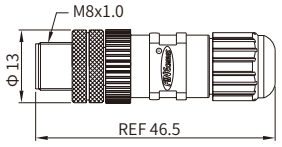
## Default wire colors

| Pin No. | |
|---|---|
| Pin 1 | Shield |
| Pin 2 | DR |
| Pin 3 | WH |
| Pin 4 | BK |
| Pin 5 | BU |
| Shell | Braid |

# M8 B-coding (Devicenet)

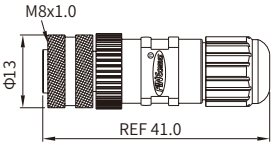
## M8 B-coding Straight Connector, Field Wirable Assembly, Solder

Male




CE RoHS

Female




CE RoHS

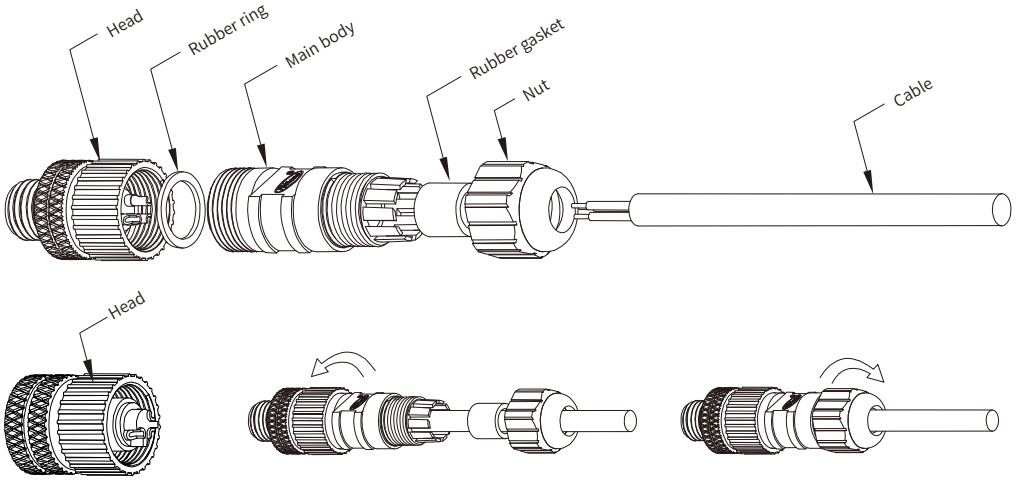
## Specifications

| Contacts | 5 |
|---|---|
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-104 |
| Ambient temperature | -40°C ~ +90°C |
| Connector insert | TPU;PA |
| Connector contacts | Brass with gold plated |
| Coupling nut/screw | Brass with nickel plated |
| Seal/O-ring | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Shielding | Unavailable |
| Suitable cable Dia | 3.5~5.0mm |
| IP rating | IP65 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 3 A |
| Rated voltage | 30V AC / DC |
| Wire gauge | 0.25mm²(AWG24) |

## Part Number

| Pins | Male | Female |
|---|---|---|
| 5 | MB08MBAF05ST | MB08FBAF05ST |

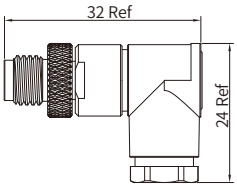
## Assembly Instruction



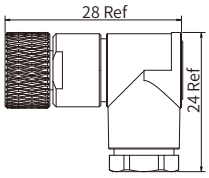
# M8 B-coding (Devicenet)

## M8 B-coding Angled Connector, Field Wirable Assembly, Solder

Male




Female




CE RoHS IP67

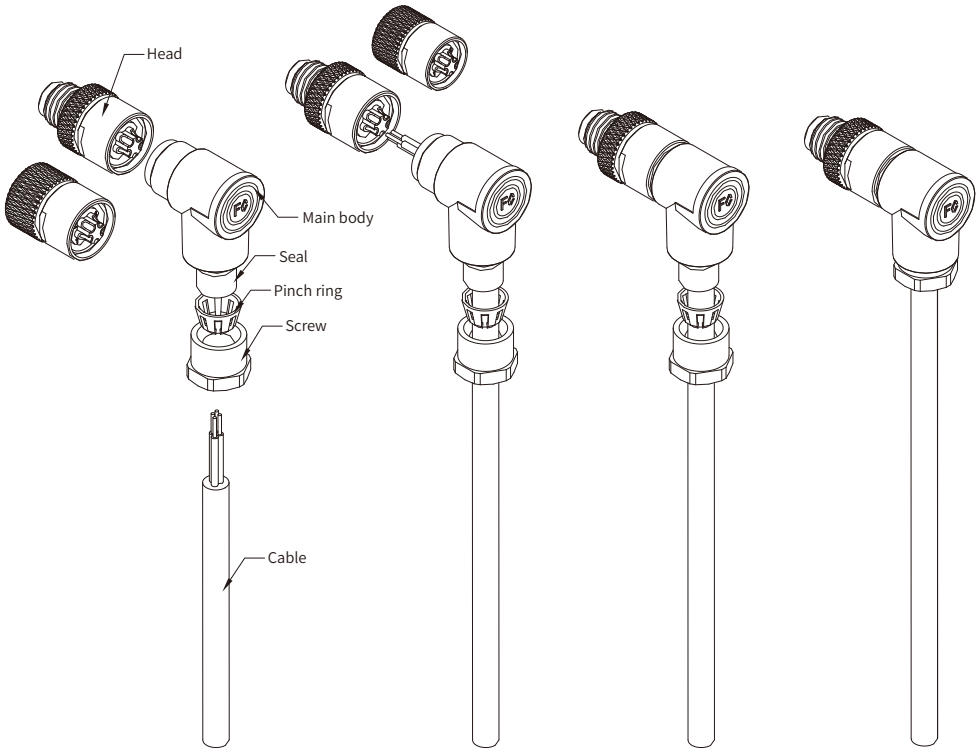
## Specifications

| Contacts | 5 |
|---|---|
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-104 |
| Ambient temperature | -40°C ~ +90°C |
| Connector insert | TPU;PA |
| Connector contacts | Brass with gold plated |
| Coupling nut/screw | Brass with nickel plated |
| Seal/O-ring | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Shielding | Unavailable |
| Suitable cable Dia | 3.5~5.0mm |
| IP rating | IP67 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 3 A |
| Rated voltage | 30V AC/ DC |
| Wire gauge | 0.25mm$^2$(AWG24) |

## Part Number

| Pins | Male | Female |
|---|---|---|
| 5 | MB08MABFF05RA | MB08FABFF05RA |

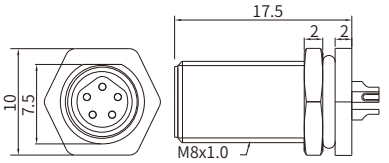
## Assembly Instruction



# M8 B-coding (Devicenet)

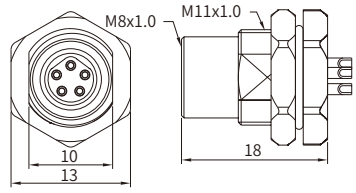
## M8 B-coding Straight Connector, Panel Mount, Solder, Front fastened

Male




CE RoHS

Female




CE RoHS

## Specifications

| Contacts | 5 |
|---|---|
| Certification | cULus LISTED CYJV(CYJV7).E321413 |
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-104 |
| Ambient temperature | -15°C~+85°C (flexible installation), -30°C~+85°C (fixed installation) |
| Customized temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) |
| Connector insert | TPU |
| Connector contacts | Brass with gold plated |
| Coupling nut/screw | Brass with nickel plated |
| Seal/O-ring | Epoxy resin / FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Earth tag/pin | Unavailable |
| IP rating | IP67 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 3 A |
| Rated voltage | 30V AC / DC |
| Wire gauge | 0.25mm$^2$(AWG24) |
| Panel cut-out | Refer to page 115 |

## Part Number

| Pins | wire length | Male | Female |
|---|---|---|---|
| 5 | 0.1m | MB08MSBFF05ST-2501 | MB08FSBFF05ST-2501 |
| | 0.3m | MB08MSBFF05ST-2503 | MB08FSBFF05ST-2503 |

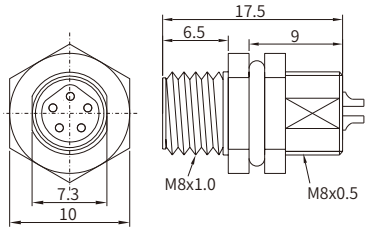
## Default wire colors

| Pin No. | |
|---|---|
| Pin 1 | Shield |
| Pin 2 | DR |
| Pin 3 | WH |
| Pin 4 | BK |
| Pin 5 | BU |

# M8 B-coding (Devicenet)

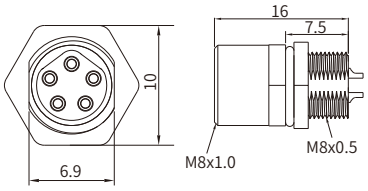
## M8 B-coding Straight Connector, Panel Mount, Solder, Rear fastened

Male




CE RoHS IP67

Female




CE RoHS IP67

## Specifications

| Contacts | 5 |
|---|---|
| Certification | cULus LISTED CYJV(CYJV7).E321413 |
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-104 |
| Ambient temperature | -15°C~+85°C (flexible installation), -30°C~+85°C (fixed installation) |
| Customized temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) |
| Connector insert | TPU |
| Connector contacts | Brass with gold plated |
| Coupling nut/screw | Brass with nickel plated |
| Seal/O-ring | Epoxy resin / FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Earth tag/pin | Unavailable |
| IP rating | IP67 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 3 A |
| Rated voltage | 30V AC / DC |
| Wire gauge | 0.25mm$^2$(AWG24) |
| Panel cut-out | Refer to page 115 |

## Part Number

| Pins | wire length | Male | Female |
|---|---|---|---|
| 5 | 0.1m | MB08MSBRF05ST-2501 | MB08FSBRF05ST-2501 |
| | 0.3m | MB08MSBRF05ST-2503 | MB08FSBRF05ST-2503 |

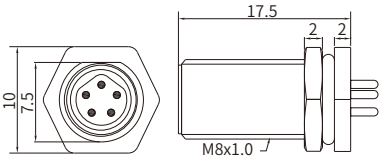
## Default wire colors

| Pin No. | |
|---|---|
| Pin 1 | Shield |
| Pin 2 | DR |
| Pin 3 | WH |
| Pin 4 | BK |
| Pin 5 | BU |

# M8 B-coding (Devicenet)

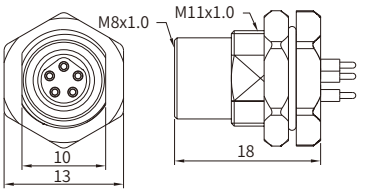
## M8 B-coding Straight Connector, Panel Mount, PCB Type, Front fastened

Male




CE RoHS IP67

Female




CE RoHS IP67

## Specifications

| Contacts | 5 |
|---|---|
| Certification | cULus LISTED CYJV(CYJV7).E321413 |
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-104 |
| Ambient temperature | -40°C ~ +90°C |
| Connector insert | TPU |
| Connector contacts | Brass with gold plated |
| Coupling nut/screw | Brass with nickel plated |
| Seal/O-ring | Epoxy resin / FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Earth tag/pin | Unavailable |
| IP rating | IP67 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 3 A |
| Rated voltage | 30V AC / DC |
| Panel cut-out | Refer to page 115 |
| PCB layout | Refer to page 114 |

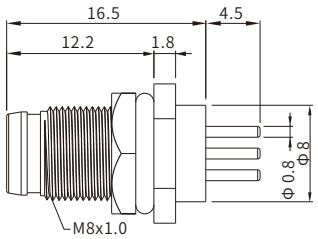
## Part Number

| Pins | Male | Female |
|---|---|---|
| 5 | MB08MBBFF05ST | MB08FBBFF05ST |

# M8 B-coding (Sensor and Actuator)

## M8 B-coding Straight Connector, Panel Mount, PCB Type, Front fastened

Male




CE RoHS IP67

## Specifications

| Contacts | 5 |
|---|---|
| Pin layout(Male) | |
| Standard | IEC 61076-2-104 |
| Ambient temperature | -40°C ~ +90°C |
| Connector insert | TPU |
| Connector contacts | Brass with gold plated |
| Coupling nut/screw | Brass with nickel plated |
| Seal/O-ring | Epoxy resin / FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Earth tag/pin | Unavailable |
| IP rating | IP67 in locked condition/ IP65 snap in |
| Mating endurance | >500 cycles |
| Rated current | 3 A |
| Rated voltage | 30V AC/DC |
| Panel cut-out | Refer to page 115 |
| PCB layout | Refer to page 114 |

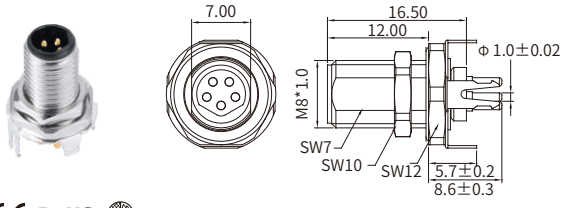
## Part Number

| Pins | Male |
|---|---|
| 5 | MB08MBBFI05ST |

# M8 B-coding (Sensor and Actuator)

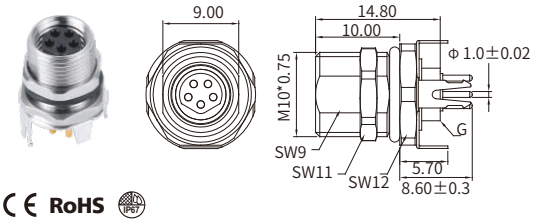
## M8 B-coding Straight Connector, Panel Mount, PCB Type, Front fastened, With Earth Pin

Male




CE RoHS

Female




CE RoHS

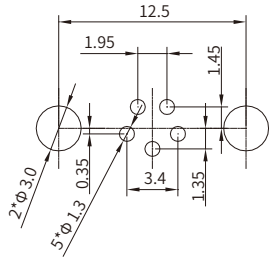
## Specifications

| Contacts | 5 |
|---|---|
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-104 |
| Ambient temperature | -25°C ~ +90°C |
| Connector insert | TPU; PA+GF |
| Connector contacts | Brass with gold plated |
| Coupling nut/screw | Brass with nickel plated |
| Seal/O-ring | Epoxy resin / FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Earth tag/pin | Available |
| IP rating | IP67 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 3 A |
| Rated voltage | 30V AC/ DC |

## Part Number

| Pins | Male | Female |
|---|---|---|
| 5 | MB08MBSBFF05ST | MB08FBSBFF05ST |

## PCB layout

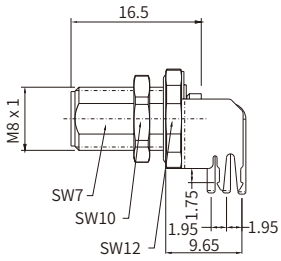



Recommend PCB layout
PCB thinkness: 1.6mm

# M8 B-coding (Devicenet)

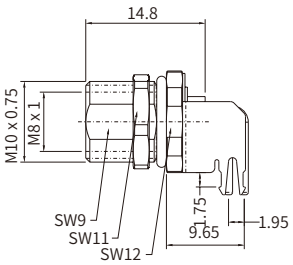
## M8 B-coding Angled Connector, Panel Mount, Angled, PCB Type, Front fastened, With Earth Pin

Male




Thickness of PCB: 1.6mm

Female




Thickness of PCB: 1.6mm

## Specifications

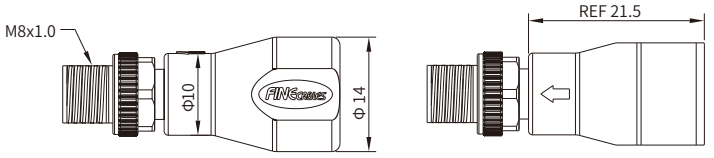
| Contacts | 5 |
|---|---|
| Certification | CYJV(CYJV7).E321413 |
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-104 |
| Ambient temperature | -40°C ~ +90°C |
| Connector insert | TPU; PA+GF |
| Connector contacts | Brass with gold plated |
| Coupling nut/screw | Brass with nickel plated |
| Seal/O-ring | Epoxy resin / FKM |
| Insulation resistance | ≥100MΩ |
| Contact resistance | ≤5mΩ |
| Earth tag/pin | Available |
| IP rating | IP67 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 3 A |
| Rated voltage | 30V AC / DC |
| Panel cut-out | Refer to page 115 |
| PCB layout | Refer to page 114/115 |

## Part Number

| Pins | Male | Female |
|---|---|---|
| 5 | MB08MBSBFF05RA | MB08FBSBFF05RA |

# M8 B-coding (Devicenet)

## M8 B-coding Terminator, Straight, with LED Indicator




**RoHS**

## Specifications

| Contacts | 5 |
|---|---|
| Pin layout(Male) | |
| Ambient temperature | -25°C ~ +90°C |
| Connector insert | PA+GF / TPU |
| Connector contacts | Brass with gold plated |
| Connector overmold | Transparent TPU |
| Coupling nut/screw | Zinc alloy with nickel plated |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Shielding | Unavailable |
| IP rating | IP67 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 3 A |
| Rated voltage | 30V AC / DC |

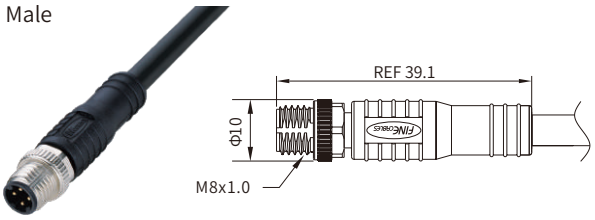
## Part Number

| Pins | Male |
|---|---|
| 5 | MA08MBHD05ST-LED |

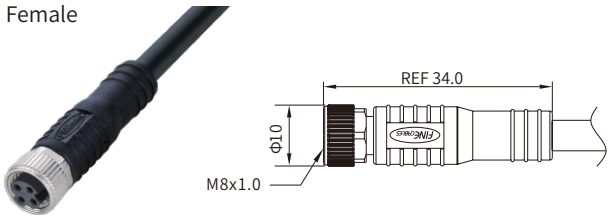
# M8 D-coding

## M8 D-coding Straight Connector, Molded Cable

Male




Female




CE RoHS IP67

CE RoHS IP67

## Specifications

| Contacts | 4 |
|---|---|
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-114 |
| Ambient temperature | -20°C ~ +80°C (flexible installation) ,-40°C ~ +80°C (fixed installation) |
| Connector insert | TPU |
| Connector contacts | Brass with gold plated |
| Connector overmold | TPU |
| Coupling nut/screw | Zinc alloy with nickel plated |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Shielding | Unavailable |
| IP rating | IP67 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 4A |
| Rated voltage | 50V AC/ 60V DC |
| Wire gauge | 0.34mm²(AWG22) |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 4 | 1m | MA08MDHD04ST-10CB34 | MA08MDHD04ST-10RB34 | MA08FDHD04ST-10CB34 | MA08FDHD04ST-10RB34 |
| | 3m | MA08MDHD04ST-30CB34 | MA08MDHD04ST-30RB34 | MA08FDHD04ST-30CB34 | MA08FDHD04ST-30RB34 |
| | 5m | MA08MDHD04ST-50CB34 | MA08MDHD04ST-50RB34 | MA08FDHD04ST-50CB34 | MA08FDHD04ST-50RB34 |

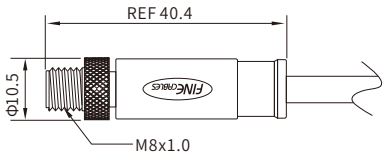
## Default wire colors

| Pin No. | |
|---|---|
| Pin 1 | BN |
| Pin 2 | WH |
| Pin 3 | BU |
| Pin 4 | BK |

# M8 D-coding

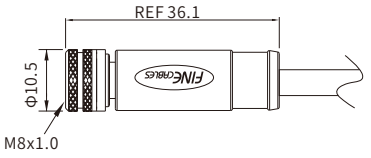
## M8 D-coding Straight Connector, Molded Cable, Shielded

Male




CE RoHS

Female




CE RoHS

## Specifications

| Contacts | 4 |
|---|---|
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-114 |
| Ambient temperature | -20°C ~ +80°C (flexible installation) ,-40°C ~ +80°C (fixed installation) |
| Connector insert | TPU |
| Connector contacts | Brass with gold plated |
| Connector overmold | TPU |
| Coupling nut/screw | Brass with nickel plated |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Shielding | Available |
| IP rating | IP67 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 4A |
| Rated voltage | 50V AC/ 60V DC |
| Wire gauge | 0.34mm$^2$(AWG22) |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 4 | 1m | MA08MSDF04ST-10CB34 | MA08MSDF04ST-10RB34 | MA08FSDF04ST-10CB34 | MA08FSDF04ST-10RB34 |
| | 3m | MA08MSDF04ST-30CB34 | MA08MSDF04ST-30RB34 | MA08FSDF04ST-30CB34 | MA08FSDF04ST-30RB34 |
| | 5m | MA08MSDF04ST-50CB34 | MA08MSDF04ST-50RB34 | MA08FSDF04ST-50CB34 | MA08FSDF04ST-50RB34 |

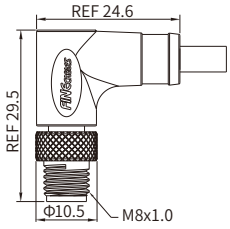
## Default wire colors

| Pin No. | |
|---|---|
| Pin 1 | BN |
| Pin 2 | WH |
| Pin 3 | BU |
| Pin 4 | BK |
| Shell | Braid |

# M8 D-coding

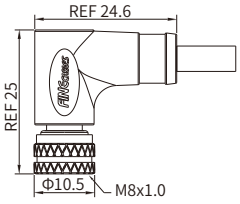
## M8 D-coding Angled Connector, Molded Cable, Shielded

Male




CE RoHS IP67

Female




CE RoHS IP67

## Specifications

| Contacts | 4 |
|---|---|
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-114 |
| Ambient temperature | -20°C ~ +80°C (flexible installation) ,-40°C ~ +80°C (fixed installation) |
| Connector insert | TPU |
| Connector contacts | Brass with gold plated |
| Connector overmold | TPU |
| Coupling nut/screw | Brass with nickel plated |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Shielding | Available |
| IP rating | IP67 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 4A |
| Rated voltage | 50V AC/ 60V DC |
| Wire gauge | 0.34mm²(AWG22) |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 4 | 1m | MA08MSDF04RA-10CB34 | MA08MSDF04RA-10RB34 | MA08FSDF04RA-10CB34 | MA08FSDF04RA-10RB34 |
| | 3m | MA08MSDF04RA-30CB34 | MA08MSDF04RA-30RB34 | MA08FSDF04RA-30CB34 | MA08FSDF04RA-30RB34 |
| | 5m | MA08MSDF04RA-50CB34 | MA08MSDF04RA-50RB34 | MA08FSDF04RA-50CB34 | MA08FSDF04RA-50RB34 |

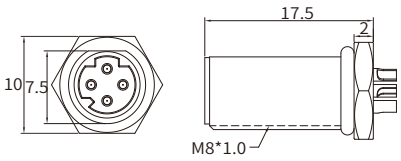
## Default wire colors

| Pin No. | |
|---|---|
| Pin 1 | BN |
| Pin 2 | WH |
| Pin 3 | BU |
| Pin 4 | BK |
| Shell | Braid |

# M8 D-coding

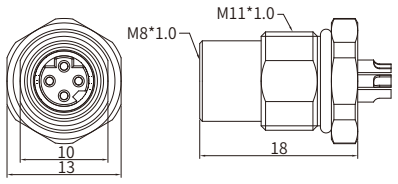
## M8 D-coding Series Panel Mount, Solder, Front Mount

Male




CE RoHS

Female




CE RoHS

## Specifications

| Contacts | 4 |
|---|---|
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-114 |
| Ambient temperature | -25°C ~+90°C |
| Connector insert | TPU |
| Connector contacts | Brass with gold plated |
| Coupling nut/screw | Brass with nickel plated |
| Seal/O-ring | Epoxy resin/FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Earth tag/pin | Available |
| IP rating | IP67 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 4A |
| Rated voltage | 50V AC/ 60V DC |
| Wire gauge | 0.34mm²(AWG22) |
| Panel cut-out | Refer to page 115 |

## Part Number

| Pins | wire length | Male | Female |
|---|---|---|---|
| 4 | 0.1m | MB08MSDFF04ST-3401 | MB08FSDFF04ST-3401 |
| | 0.3m | MB08MSDFF04ST-3403 | MB08FSDFF04ST-3403 |

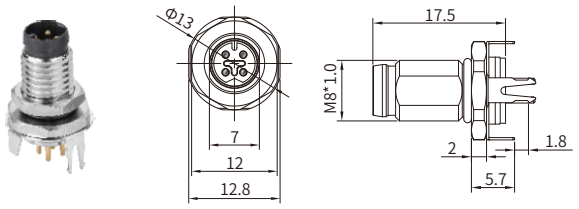
## Default wire colors

| Pin No. | |
|---|---|
| Pin 1 | BN |
| Pin 2 | WH |
| Pin 3 | BU |
| Pin 4 | BK |

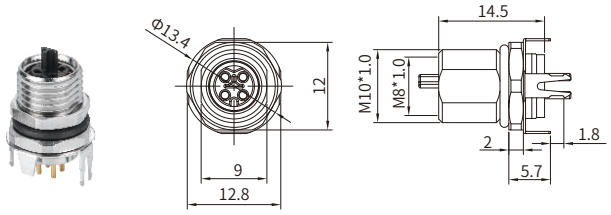
# M8 P-coding

## M8 P-coding Straight Connector, Panel Mount, PCB Type, Front fastened, With Earth Pin

Male




Female



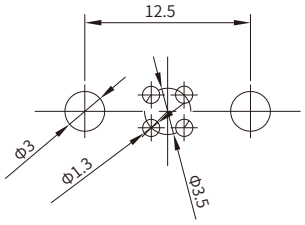

## Specifications

| Contacts | 4 |
|---|---|
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-114 |
| Ambient temperature | -25°C~ + 90°C |
| Connector insert | TPU |
| Connector contacts | Brass with gold plated |
| Connector nut/screw | Brass with nickel plated |
| Seal / O-ring | Epoxy resin/FKM |
| Insulation resistance | ⩾ 100 MΩ |
| Contact resistance | ⩽ 5 mΩ |
| Shielding | Available |
| IP rating | IP67 In locked condition |
| Mating endurance | >500 cycles |
| Rated current | 3A |
| Voltage | 50V AC / 60V DC |

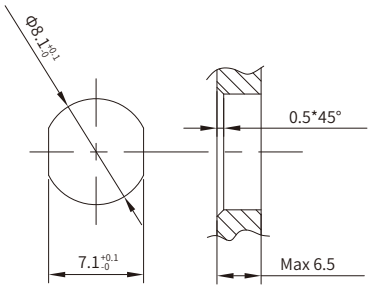
## Part Number

| Pins | Male | Female |
|---|---|---|
| 4 | MB08MBSPFF04ST | MB08FBSPFF04ST |

## Panel cut-out&PCB layout




PCB layout
PCB thinkness: 1.6mm

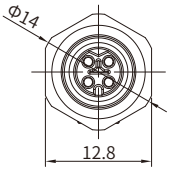


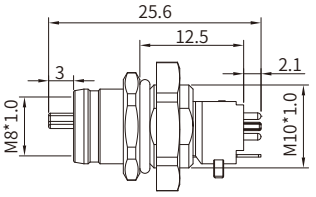

Recommended panel cut-out

# M8 P-coding

## M8 P-coding Straight Connector, Panel Mount, PCB Type, Rear fastened

Female



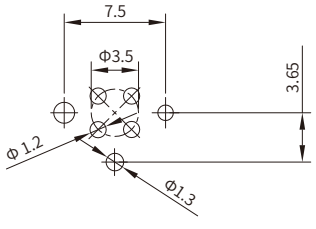

## Specifications

| Contacts | 4 |
|---|---|
| Pinlayout(Female) | |
| Standard | IEC 61076-2-114 |
| Ambient temperature | -25°C~ + 90°C |
| Connector insert | TPU |
| Connector contacts | Brass with gold plated |
| Connector nut/screw | Brass with nickel plated |
| Seal / O-ring | Epoxy resin/FKM |
| Insulation resistance | ⩾ 100 MΩ |
| Contact resistance | ⩽ 5 mΩ |
| Shielding | Available |
| IP rating | IP67 In locked condition |
| Mating endurance | >500 cycles |
| Rated current | 3A |
| Voltage | 50V AC / 60V DC |

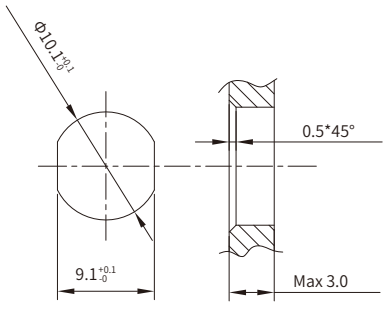
## Part Number

| Pins | Female |
|---|---|
| 4 | MB08FBSPRF04ST |

## Panel cut-out&PCB layout




PCB layout
PCB thinkness: 1.6mm

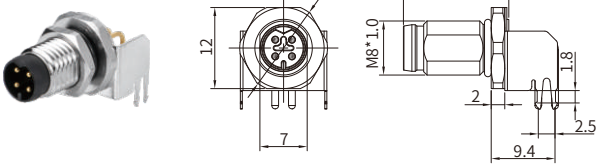



Recommended panel cut-out

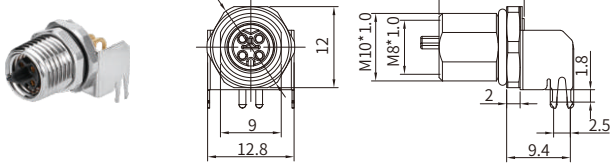
# M8 P-coding

## M8 P-coding Angled Connector, Panel Mount, Angled, PCB Type, Front fastened, With Earth Pin

Male




Female



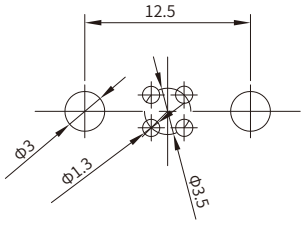

## Specifications

| Contacts | 4 |
|---|---|
| Pinlayout(Male) | |
| Pinlayout(Female) | |
| Standard | IEC 61076-2-114 |
| Ambient temperature | -25°C~ + 90°C |
| Connector insert | TPU |
| Connector contacts | Brass with gold plated |
| Connector nut/screw | Brass with nickel plated |
| Seal / O-ring | Epoxy resin/FKM |
| Insulation resistance | ⩾ 100 MΩ |
| Contact resistance | ⩽ 5 mΩ |
| Shielding | Available |
| IP rating | IP67 In locked condition |
| Mating endurance | >500 cycles |
| Rated current | 3A |
| Voltage | 50V AC / 60V DC |

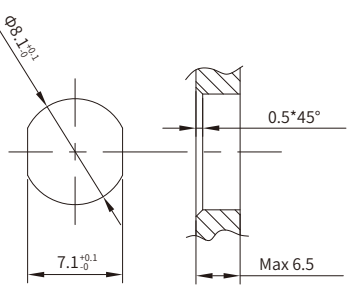
## Part Number

| Pins | Male | Female |
|---|---|---|
| 4 | MB08MBSPFF04RA | MB08FBSPFF04RA |

## Panel cut-out&PCB layout




PCB layout
PCB thinkness: 1.6mm

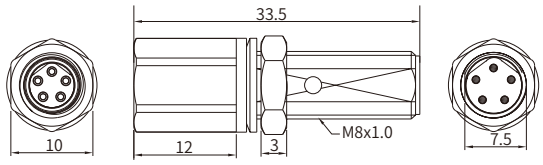



Recommended panel cut-out

# M8 Adapter

## M8 Male-Female Panel Mount

Male




CE RoHS

## Specifications

| Contacts | 3 (A-coding) | 4 (A-coding) | 5 (B-coding) |
|---|---|---|---|
| Pin layout(Male) | | | |
| Pin layout(Female) | | | |
| Standard | IEC 61076-2-104 | | |
| Ambient temperature | -25°C ~ +90°C | | |
| Connector insert | TPU / PA+GF | | |
| Connector contacts | Brass with gold plated | | |
| Coupling nut/screw | Brass with nickel plated | | |
| Seal/O-ring | Epoxy resin / FKM | | |
| Insulation resistance | ⩾100MΩ | | |
| Contact resistance | ⩽5mΩ | | |
| Shielding | Unavailable | | |
| IP rating | IP67 in locked condition | | |
| Mating endurance | >500 cycles | | |
| Rated current | 3 A | | |
| Rated voltage | 50V AC/ 60V DC | | 30V AC / DC |
| Panel cut-out | Refer to page 115 | | |

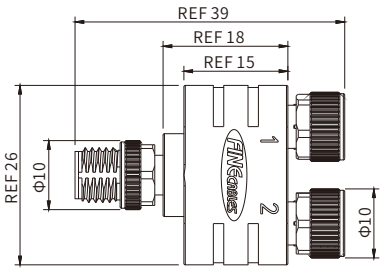
## Part Number

| Pins | Male-Female |
|---|---|
| 3 | MT-004 |
| 4 | MT-005 |
| 5 | MT-006 |

# M8 Splitter

## M8 Y-Splitter, Male-2*Female

RoHS



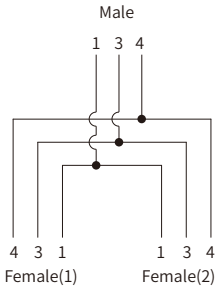

## Specifications

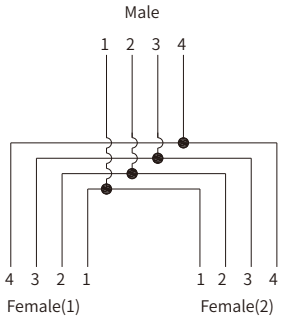
| Contacts | 3 (A-coding) | 4 (A-coding) | 5 (B-coding) |
|---|---|---|---|
| Pin layout(Male) | | | |
| Pin layout(Female) | | | |
| Ambient temperature | -20°C ~ +80°C | | |
| Connector insert | PA+GF / TPU | | |
| Connector contacts | Brass with gold plated | | |
| Coupling nut/screw | Zinc alloy with nickel plated | | |
| Overrmold | TPU | | |
| O-ring | FKM | | |
| Insulation resistance | ⩾100MΩ | | |
| Contact resistance | ⩽5mΩ | | |
| Shielding | Unavailable | | |
| IP rating | IP67 in locked condition | | |
| Mating endurance | >500 cycles | | |
| Rated current | 3 A | | |
| Rated voltage | 50V AC/ 60V DC | | 30V AC / DC |

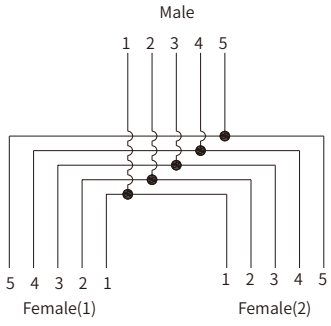
## Part Number

| Pins | Male-2*Female |
|---|---|
| 3 | MT-043 |
| 4 | MT-044 |
| 5 | MT-045 |

## Wire List

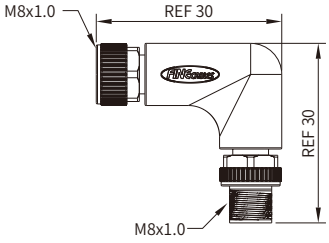


# M8 Splitter

## M8 L-Adapter, Male-Female




RoHS

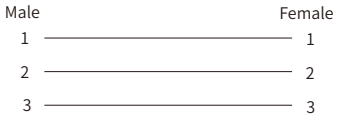
## Specifications

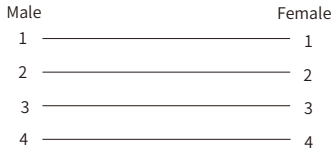
| Contacts | 3 (A-coding) | 4 (A-coding) | 5 (B-coding) |
|---|---|---|---|
| Pin layout(Male) | | | |
| Pin layout(Female) | | | |
| Standard | IEC 61076-2-104 | | |
| Ambient temperature | -20°C ~ +80°C | | |
| Connector insert | TPU/ PA | | |
| Connector contacts | Brass with gold plated | | |
| Connector overmold | TPU | | |
| Coupling nut/screw | Zinc alloy with nickel plated | | |
| Seal/O-ring | FKM | | |
| Insulation resistance | ≥100MΩ | | |
| Contact resistance | ≤5mΩ | | |
| Shielding | Unavailable | | |
| IP rating | IP67 in locked condition | | |
| Mating endurance | >500 cycles | | |
| Rated current | 3 A | | |
| Rated voltage | 50V AC/ 60V DC | | 30V AC / DC |

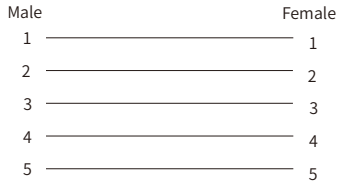
## Part Number

| Pins | Male-Female |
|---|---|
| 3 | MT-046 |
| 4 | MT-047 |
| 5 | MT-048 |

## Wire List



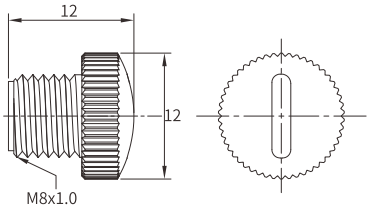



# M8 ProtectionCap

## M8 Protection Cap for Female Connector

- Cover series：M8
- Gender: For female
- Locking type: Fix screw
- Part No.: PCSM8x1.0-6

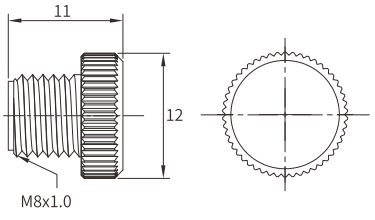


## General information

| | |
|---|---|
| Nut/Screw: | Aluminium alloy with nickel plated |
| IP rating: | IP67 In locked condition |

## M8 Protection Cap for Female Connector

- Cover series: M8
- Gender: For female
- Locking type: Fix screw
- Part No.: PCSM8x1.0-5



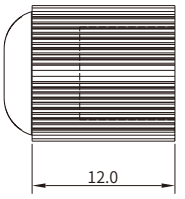
## General information

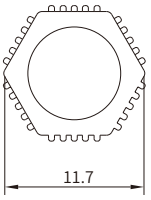
| | |
|---|---|
| Nut/Screw: | Aluminium alloy with nickel plated |
| IP rating: | IP67 In locked condition |

# M8 Protection Cap

## M8 Protection Cap for Male Snap in Connector

- Connector series: M8
- Gender: for Male
- Locking type: Fix screw
- Part No.: PCNM8x1.0-1



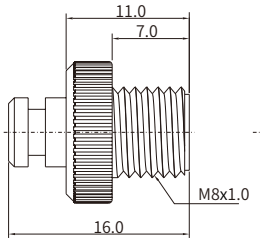



### General information

| | |
|---|---|
| Material: | PA+GF |
| O-ring: | FKM |
| Color: | Black |
| Degree of protection: | IP67 in locked condition |

## M8 Protection Cap for Female Connector

- Connector series: M8
- Gender: for Female
- Locking type: Fix screw
- Part No.: PCSM8x1.0-1



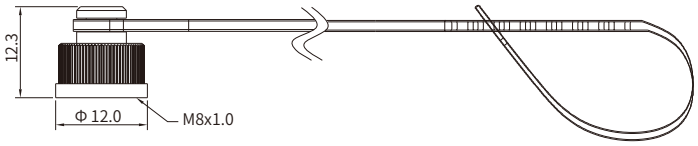
### General information

| | |
|---|---|
| Material: | PA+GF |
| Color: | Black |
| Degree of protection: | IP67 in locked condition |

# M8 Protection Cap

## M8 Protection Cap for Male Molded Cable Connector

- Connector series: M8
- Gender: for Male
- Locking type: Fix screw
- Part No.: PCNM8x1.0-2




### General information

| | |
|---|---|
| Material: | PA+GF |
| Gasket: | FKM |
| Loop: | TPU |

| | |
|---|---|
| Color: | Black |
| Degree of protection: | IP67 in locked condition |

## M8 Protection Cap for Female Molded Cable Connector

- Connector series: M8
- Gender: for Female
- Locking type: Fix screw
- Part No.: PCSM8x1.0-2

### General information

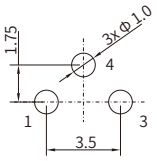
| | |
|---|---|
| Material: | PA+GF |
| Loop: | TPU |

| | |
|---|---|
| Color: | Black |
| Degree of protection: | IP67 in locked condition |

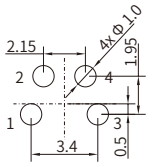
# M8 PCB Layout & Panel Cut-out

## PCB Layout

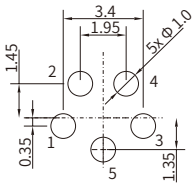
### M8 Male Connector



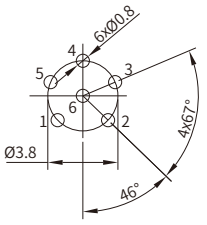

3P (Pin OD: Φ 0.8)



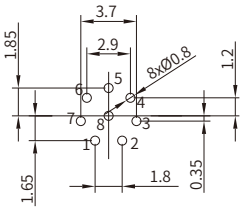

4P (Pin OD: Φ 0.8)




5P (Pin OD: Φ 0.8)



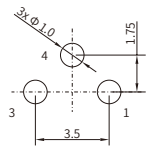

6P (Pin OD: Φ 0.6)



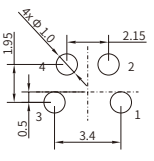

8P (Pin OD: Φ 0.6)

Recommended PCB layout

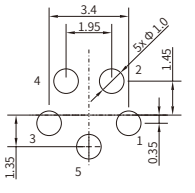
### M8 Female Connector



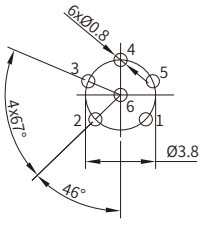

3P (Pin OD: Φ 0.8)



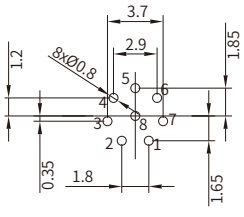

4P (Pin OD: Φ 0.8)




5P (Pin OD: Φ 0.8)



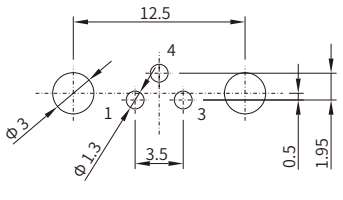

6P (Pin OD: Φ 0.6)



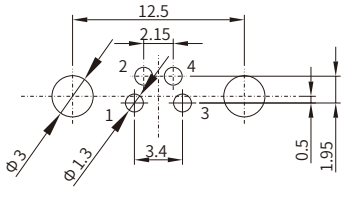

8P (Pin OD: Φ 0.6)

Recommended PCB layout

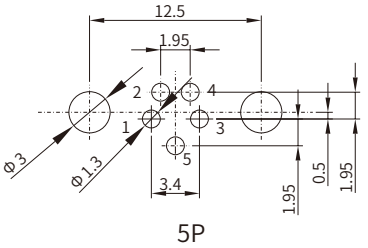
### M8 Male Right Angled Connector



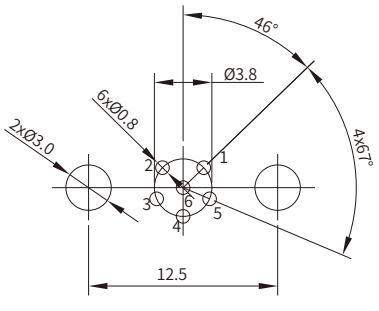

3P



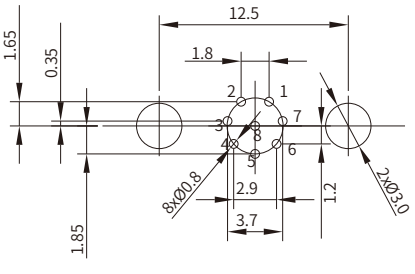

4P




5P




6P



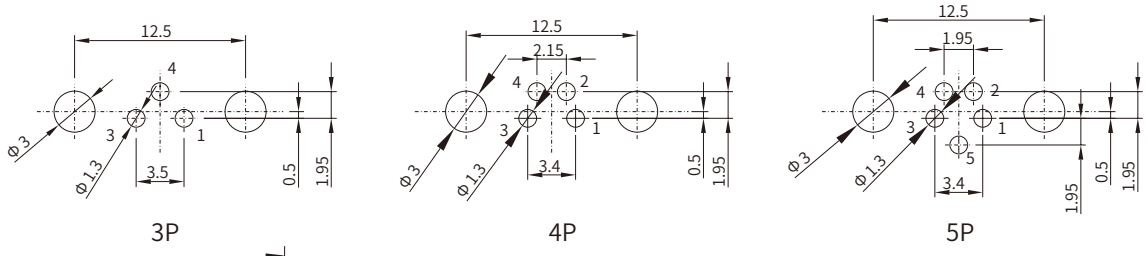

8P

Recommended PCB layout

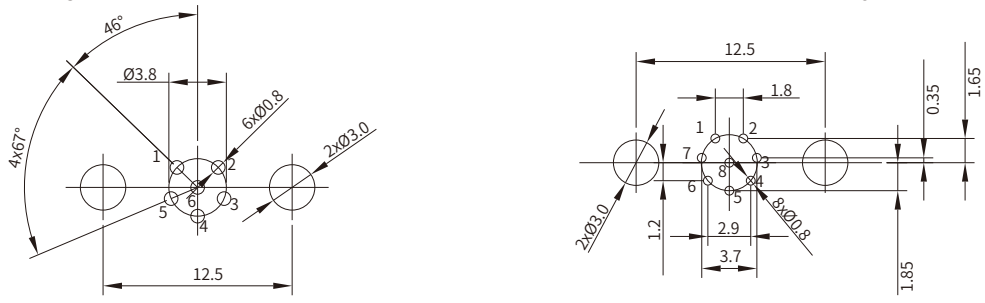
# M8 PCB Layout & Panel Cut-out

## PCB Layout

### M8 Female Right Angled Connector



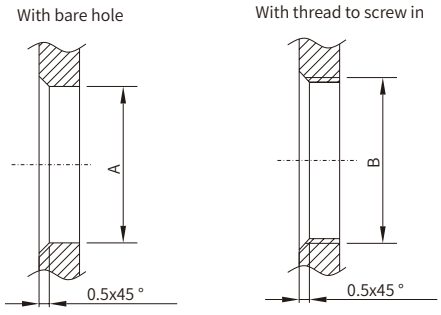

3P 4P 5P




6P 8P

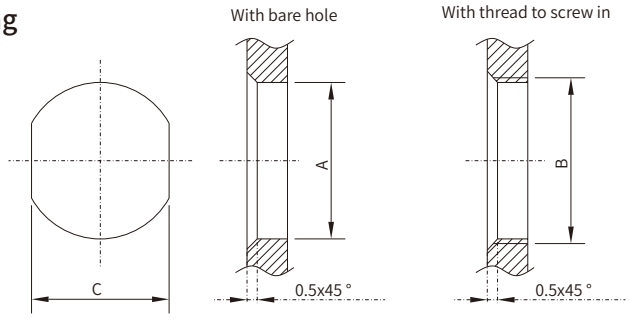
Recommended PCB layout

## Panel Cut-out Dimensions



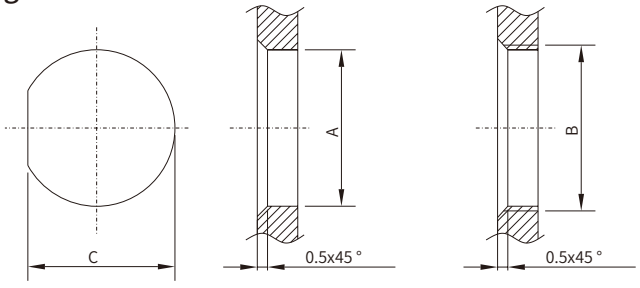

| | A | B |
|---|---|---|
| M8 | $8.0^{+0.1}_{-0}$ | M8x0.5 |
| M8 | $8.0^{+0.1}_{-0}$ | M8x1.0 |
| M11 | $11.0^{+0.1}_{-0}$ | M11x1.0 |

### H-cutting




| | A | B | C |
|---|---|---|---|
| M8 | $8.0^{+0.1}_{-0}$ | M8x0.5 | $7.1^{+0.1}_{-0}$ |
| M8 | $8.0^{+0.1}_{-0}$ | M8x0.5 | $7.4^{+0.1}_{-0}$ |
| M8 | $8.0^{+0.1}_{-0}$ | M8x1.0 | $7.1^{+0.1}_{-0}$ |
| M10 | $10.0^{+0.1}_{-0}$ | M10x0.75 | $9.1^{+0.1}_{-0}$ |
| M11 | $11.0^{+0.1}_{-0}$ | M11x1.0 | $10.1^{+0.1}_{-0}$ |

### D-cutting

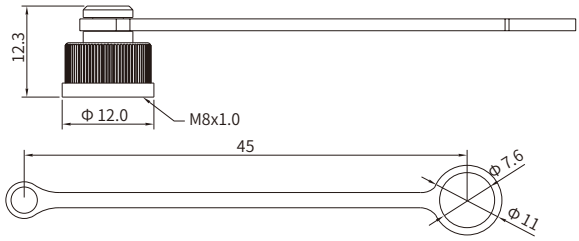



| | A | B | C |
|---|---|---|---|
| M8 | $8.0^{+0.1}_{-0}$ | M8x1.0 | $7.6^{+0.1}_{-0}$ |

# M8 Protection Cap

## M8 Protection Cap for Male Panel-mount Connector

- Connector series: M8
- Gender: for Male
- Locking type: Fix screw
- Part No.: PCNM8x1.0-3



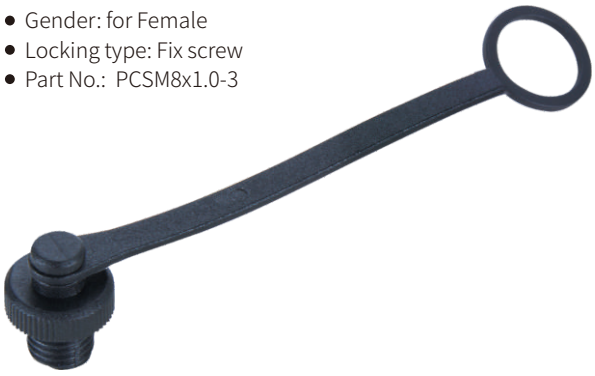

### General information

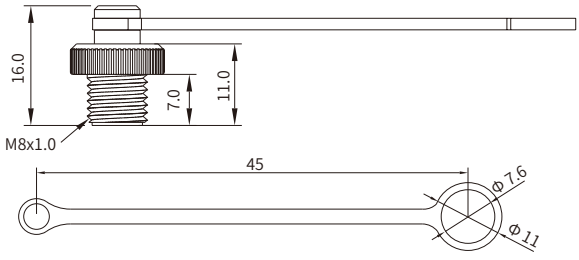
| | |
|---|---|
| Material: | PA+GF |
| Gasket: | FKM |
| Loop: | TPU |

| | |
|---|---|
| Color: | Black |
| Degree of protection: | IP67 in locked condition |

## M8 Protection Cap for Female Panel-mount Connector

- Connector series: M8
- Gender: for Female
- Locking type: Fix screw
- Part No.: PCSM8x1.0-3






### General information

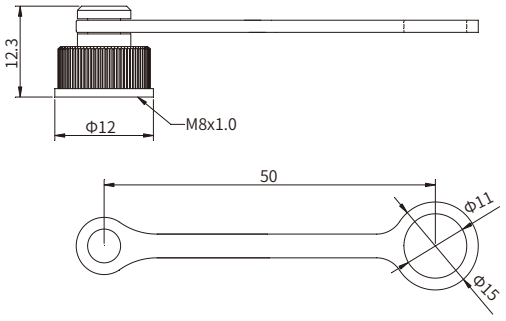
| | |
|---|---|
| Material: | PA+GF |
| Loop: | TPU |

| | |
|---|---|
| Color: | Black |
| Degree of protection: | IP67 in locked condition |

# M8 Protection Cap

## M8 Protection Cap for Male Panel-mount Connector

- Cover series: M8
- Gender: for Male
- Locking type: Fix screw
- Part No.: PCNM8x1.0-4

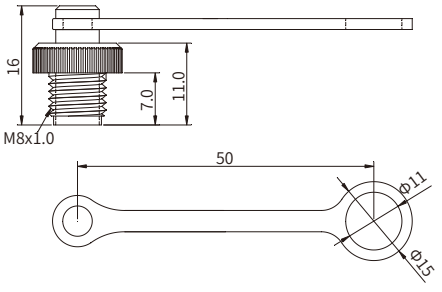



### General information

| | |
|---|---|
| Material: | PA+GF |
| O-ring: | FKM |
| Color: | Black |
| Degree of protection: | IP67 in locked condition |

## M8 Protection Cap for Female Panel-mount Connector

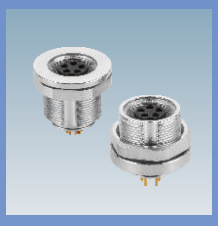
- Cover series: M8
- Gender: for Female
- Locking type: Fix screw
- Part No.: PCSM8x1.0-4




### General information

| | |
|---|---|
| Material: | PA+GF |
| Loop: | TPU |
| Color: | Black |
| Degree of protection: | IP67 in locked condition |

# Circular sensor connectors



## M9 cables & connectors

M9 series enrich our circular connector family. With their metal housing design structure, they can reach 360° EMI shielding. Meanwhile, they can reach excellent environmental protection at IP67 in locked condition. 2~8 pins are optional upon user' s request. Moreover, over-molded types, panel-mount types with solder termination as well as PCB termination are available for your applications.

- 2~8 pins available
- Metal housing connector structure for 360° EMI shielding
- Over-molded, panel-mount with solder/PCB termination optional
- Degree of protection IP67
- Cable length customized
- Lower ambient temperature: -40°C (customized)

## M9 cables & connectors

| M9 Quick Search Table | | | | | |
|---|---|---|---|---|---|
| | Available Coding | A-coding | | | |
| | Rated Current | 4A | | | |
| | Voltage | 125V | | | |
| | Wire Gauge / size | 24AWG / 0.25mm² | | | |
| | Pin layout | Male | Female | Male | Female |
| **Molded Cable** | | 02 Pins | | 03 Pins | |
| | Straight Connector, Molded Cable | 120 | 120 | 120 | 120 |
| **Panel Mount Type** | | 02 Pins | | 03 Pins | |
| | Straight Connector, Panel Mount, Solder Type, Rear fastened | 121 | 121 | 121 | 121 |
| | Straight Connector, Panel Mount, Solder Type, Front fastened | - | 122 | - | 122 |
| | Straight Connector, Panel Mount, PCB Type, Front fastened | 123 | 123 | 123 | 123 |
| | Angled Connector, Panel Mount, PCB Type, Front fastened, With Earth Pin | - | 124 | - | 124 |
| **Panel Mount Type** | | | | | |
| | Protection Cap for Male Connector | 125 | | | |
| | Protection Cap for Male Connector | 125 | | | |
| | Protection Cap for Female Connector | 125 | | | |

## How to Order Part Number

### M9 Series with cable molded

| MA | 09 | F | A | F | 03 | ST | 03 | C | B | 14 |
|---|---|---|---|---|---|---|---|---|---|---|

**SERIES**

**SIZE**
09=M9

**TYPE**
F=Female
M=Male
FS=Female shield
MS=Male shield

**CODING**
A=A Coding

**LOCKING SYSTEM**
F=Fixed screw

**POLES**
02=2 Poles
03=3 Poles
.....
08=8 Poles

**INSERT DEGREE**
ST=Straight
RA=Right angled

**CABLE LENGTH**
03=0.3m
10=1m
20=2m
100=10m
.....

**CABLE SHEATH**
C=PVC
R=PUR

**CABLE COLOR**
B=Black
G=Gray
O=Orange
Y=Yellow

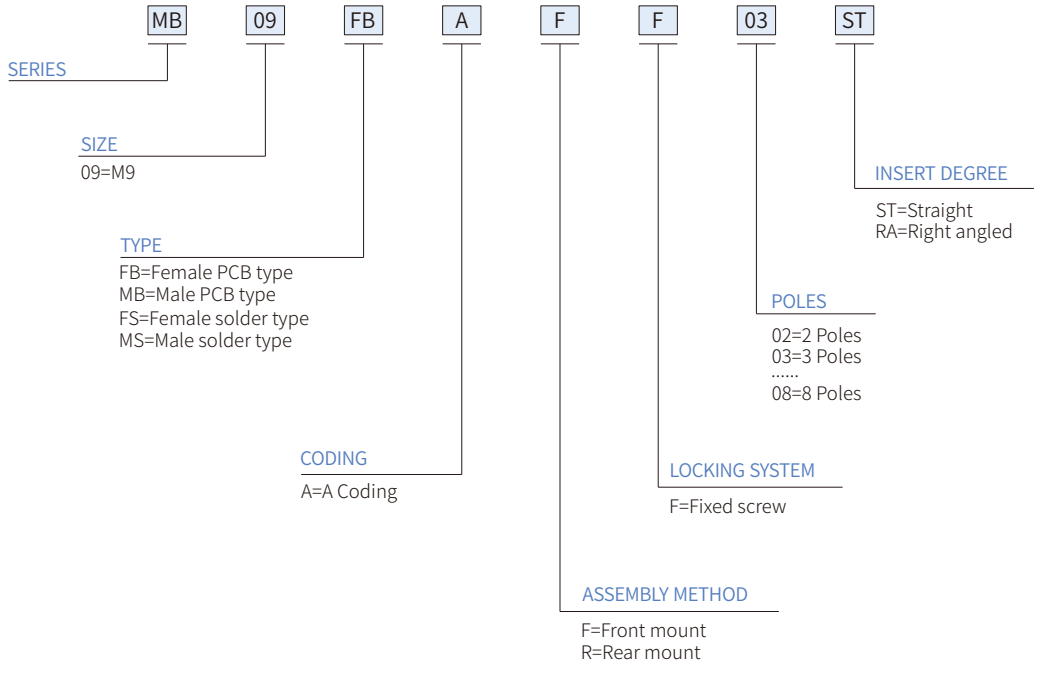
**WIRE SECTION**
14=0.14mm²
25=0.25mm²

## M9 cables & connectors

| A-coding | | | | A-coding | | | |
|---|---|---|---|---|---|---|---|
| 3A | | | | 1A | | | |
| 125V | | | | 125V | | | |
| 24AWG / 0.25mm² | | | | 26AWG / 0.14mm² | | | |
| Male | Female | Male | Female | Male | Female | Male | Female |
| 04 Pins | | 05 Pins | | 07 Pins | | 08 Pins | |
| 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 |
| 04 Pins | | 05 Pins | | 07 Pins | | 08 Pins | |
| 121 | 121 | 121 | 121 | 121 | 121 | 121 | 121 |
| - | 122 | - | 122 | - | 122 | - | 122 |
| 123 | 123 | 123 | 123 | 123 | 123 | 123 | 123 |
| - | 124 | - | 124 | - | 124 | - | 124 |

## How to Order Part Number

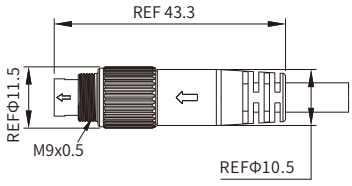
### M9 Series Panel-mount type



# M9

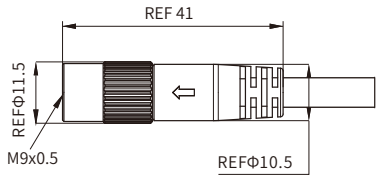
## M9 Straight Connector, Molded Cable

Male



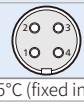

RoHS

Female




RoHS

## Specifications

| Contacts | 2 | 3 | 4 | 5 | 7 | 8 |
|---|---|---|---|---|---|---|
| Pin layout(Male) | | | | | | |
| Pin layout(Female) | | |  | | | |

| | | | | | |
|---|---|---|---|---|---|
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | | | | |
| Connector insert | PBT | | | | |
| Connector contacts | Brass with gold plated | | | | |
| Coupling nut/screw | Brass with nickel plated | | | | |
| Connector overmold | TPU | | | | |
| Insulation resistance | ⩾100MΩ | | | | |
| Contact resistance | ⩽5mΩ | | | | |
| Shielding | Available | | | | |
| IP rating | IP67 in locked condition | | | | |
| Mating endurance | >500 cycles | | | | |
| Rated current | 4 A | | 3 A | | 1A |
| Rated voltage | 125V AC/DC | | | | |
| Wire gauge | 0.25mm²(AWG24) | | | | 0.14mm²(AWG26) |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 2 | 1m | MA09MSAF02ST-10CB25 | MA09MSAF02ST-10RB25 | MA09FSAF02ST-10CB25 | MA09FSAF02ST-10RB25 |
| | 3m | MA09MSAF02ST-30CB25 | MA09MSAF02ST-30RB25 | MA09FSAF02ST-30CB25 | MA09FSAF02ST-30RB25 |
| | 5m | MA09MSAF02ST-50CB25 | MA09MSAF02ST-50RB25 | MA09FSAF02ST-50CB25 | MA09FSAF02ST-50RB25 |
| 3 | 1m | MA09MSAF03ST-10CB25 | MA09MSAF03ST-10RB25 | MA09FSAF03ST-10CB25 | MA09FSAF03ST-10RB25 |
| | 3m | MA09MSAF03ST-30CB25 | MA09MSAF03ST-30RB25 | MA09FSAF03ST-30CB25 | MA09FSAF03ST-30RB25 |
| | 5m | MA09MSAF03ST-50CB25 | MA09MSAF03ST-50RB25 | MA09FSAF03ST-50CB25 | MA09FSAF03ST-50RB25 |
| 4 | 1m | MA09MSAF04ST-10CB25 | MA09MSAF04ST-10RB25 | MA09FSAF04ST-10CB25 | MA09FSAF04ST-10RB25 |
| | 3m | MA09MSAF04ST-30CB25 | MA09MSAF04ST-30RB25 | MA09FSAF04ST-30CB25 | MA09FSAF04ST-30RB25 |
| | 5m | MA09MSAF04ST-50CB25 | MA09MSAF04ST-50RB25 | MA09FSAF04ST-50CB25 | MA09FSAF04ST-50RB25 |
| 5 | 1m | MA09MSAF05ST-10CB25 | MA09MSAF05ST-10RB25 | MA09FSAF05ST-10CB25 | MA09FSAF05ST-10RB25 |
| | 3m | MA09MSAF05ST-30CB25 | MA09MSAF05ST-30RB25 | MA09FSAF05ST-30CB25 | MA09FSAF05ST-30RB25 |
| | 5m | MA09MSAF05ST-50CB25 | MA09MSAF05ST-50RB25 | MA09FSAF05ST-50CB25 | MA09FSAF05ST-50RB25 |
| 7 | 1m | MA09MSAF07ST-10CB14 | MA09MSAF07ST-10RB14 | MA09FSAF07ST-10CB14 | MA09FSAF07ST-10RB14 |
| | 3m | MA09MSAF07ST-30CB14 | MA09MSAF07ST-30RB14 | MA09FSAF07ST-30CB14 | MA09FSAF07ST-30RB14 |
| | 5m | MA09MSAF07ST-50CB14 | MA09MSAF07ST-50RB14 | MA09FSAF07ST-50CB14 | MA09FSAF07ST-50RB14 |
| 8 | 1m | MA09MSAF08ST-10CB14 | MA09MSAF08ST-10RB14 | MA09FSAF08ST-10CB14 | MA09FSAF08ST-10RB14 |
| | 3m | MA09MSAF08ST-30CB14 | MA09MSAF08ST-30RB14 | MA09FSAF08ST-30CB14 | MA09FSAF08ST-30RB14 |
| | 5m | MA09MSAF08ST-50CB14 | MA09MSAF08ST-50RB14 | MA09FSAF08ST-50CB14 | MA09FSAF08ST-50RB14 |

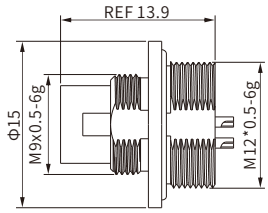
## Default wire colors

| Pin No. | | | | | | |
|---|---|---|---|---|---|---|
| Pin 1 | BN | BN | BN | BN | BN | WH |
| Pin 2 | BU | BU | WH | WH | WH | BN |
| Pin 3 | | BK | BU | BU | BU | GN |
| Pin 4 | | | BK | BK | BK | YE |
| Pin 5 | | | | GY | GY | GY |
| Pin 6 | | | | | PK | PK |
| Pin 7 | | | | | RD | BU |
| Pin 8 | | | | | | RD |
| Shell | Braid | | | | | |

# M9

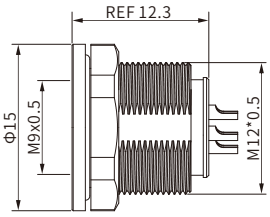
## M9 Straight Connector, Panel Mount, Solder Type, Rear fastened

Male




RoHS

Female




RoHS

## Specifications

| Contacts | 2 | 3 | 4 | 5 | 7 | 8 |
|---|---|---|---|---|---|---|
| Pin layout(Male) | | | | | | |
| Pin layout(Female) | | | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| Ambient temperature | -15°C~+85°C (flexible installation), -30°C~+85°C (fixed installation ) | | | | | |
| Customized temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | | | | | |
| Connector insert | PBT | | | | | |
| Connector contacts | Brass with gold plated | | | | | |
| Coupling nut/screw | Brass with nickel plated | | | | | |
| Insulation resistance | ⩾100MΩ | | | | | |
| Contact resistance | ⩽5mΩ | | | | | |
| Earth tag/pin | Unavailable | | | | | |
| IP rating | IP67 in locked condition | | | | | |
| Mating endurance | >500 cycles | | | | | |
| Rated current | 4 A | | 3 A | | 1A | |
| Rated voltage | 125V AC/DC | | | | | |
| Wire gauge | 0.25mm$^2$(AWG24) | | | | 0.14mm$^2$(AWG26) | |
| Panel cut-out | Refer to page 126 | | | | | |

## Part Number

| Pins | wire length | Male | Female |
|---|---|---|---|
| 2 | 0.1m | MB09MSARF02ST-2501 | MB09FSARF02ST-2501 |
| | 0.3m | MB09MSARF02ST-2503 | MB09FSARF02ST-2503 |
| 3 | 0.1m | MB09MSARF03ST-2501 | MB09FSARF03ST-2501 |
| | 0.3m | MB09MSARF03ST-2503 | MB09FSARF03ST-2503 |
| 4 | 0.1m | MB09MSARF04ST-2501 | MB09FSARF04ST-2501 |
| | 0.3m | MB09MSARF04ST-2503 | MB09FSARF04ST-2503 |
| 5 | 0.1m | MB09MSARF05ST-2501 | MB09FSARF05ST-2501 |
| | 0.3m | MB09MSARF05ST-2503 | MB09FSARF05ST-2503 |
| 7 | 0.1m | MB09MSARF07ST-1401 | MB09FSARF07ST-1401 |
| | 0.3m | MB09MSARF07ST-1403 | MB09FSARF07ST-1403 |
| 8 | 0.1m | MB09MSARF08ST-1401 | MB09FSARF08ST-1401 |
| | 0.3m | MB09MSARF08ST-1403 | MB09FSARF08ST-1403 |

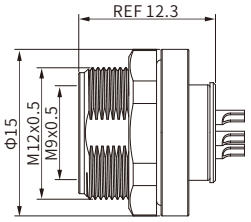
## Default wire colors

| Pin No. | | | | | | |
|---|---|---|---|---|---|---|
| Pin 1 | BN | BN | BN | BN | BN | WH |
| Pin 2 | BU | BU | WH | WH | WH | BN |
| Pin 3 | | BK | BU | BU | BU | GN |
| Pin 4 | | | BK | BK | BK | YE |
| Pin 5 | | | | GY | GY | GY |
| Pin 6 | | | | | PK | PK |
| Pin 7 | | | | | RD | BU |
| Pin 8 | | | | | | RD |

# M9

## M9 Straight Connector, Panel Mount, Solder Type, Front fastened

Female




**RoHS**

## Specifications

| Contacts | 2 | 3 | 4 | 5 | 7 | 8 |
|---|---|---|---|---|---|---|
| Pin layout(Female) | | | | | | |
| Ambient temperature | -15°C~+85°C (flexible installation), -30°C~+85°C (fixed installation) | | | | | |
| Customized temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | | | | | |
| Connector insert | PBT | | | | | |
| Connector contacts | Brass with gold plated | | | | | |
| Coupling nut/screw | Zinc alloy with nickel plated/Brass with nickel plated | | | | | |
| Insulation resistance | ⩾100MΩ | | | | | |
| Contact resistance | ⩽5mΩ | | | | | |
| Earth tag/pin | Unavailable | | | | | |
| IP rating | IP67 in locked condition | | | | | |
| Mating endurance | >500 cycles | | | | | |
| Rated current | 4 A | | 3 A | | 1A | |
| Rated voltage | 125V AC/DC | | | | | |
| Wire gauge | 0.25mm² (AWG24) | | | | 0.14mm² (AWG26) | |
| Panel cut-out | Refer to page 126 | | | | | |

## Part Number

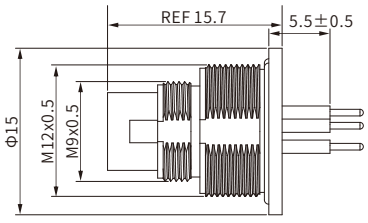
| Pins | wire length | Female |
|---|---|---|
| 2 | 0.1m | MB09FSAFF02ST-2501 |
| | 0.3m | MB09FSAFF02ST-2503 |
| 3 | 0.1m | MB09FSAFF03ST-2501 |
| | 0.3m | MB09FSAFF03ST-2503 |
| 4 | 0.1m | MB09FSAFF04ST-2501 |
| | 0.3m | MB09FSAFF04ST-2503 |
| 5 | 0.1m | MB09FSAFF05ST-2501 |
| | 0.3m | MB09FSAFF05ST-2503 |
| 7 | 0.1m | MB09FSAFF07ST-1401 |
| | 0.3m | MB09FSAFF07ST-1403 |
| 8 | 0.1m | MB09FSAFF08ST-1401 |
| | 0.3m | MB09FSAFF08ST-1403 |

## Default wire colors

| Pin No. | | | | | | |
|---|---|---|---|---|---|---|
| Pin 1 | BN | BN | BN | BN | BN | WH |
| Pin 2 | BU | BU | WH | WH | WH | BN |
| Pin 3 | | BK | BU | BU | BU | GN |
| Pin 4 | | | BK | BK | BK | YE |
| Pin 5 | | | | GY | GY | GY |
| Pin 6 | | | | | PK | PK |
| Pin 7 | | | | | RD | BU |
| Pin 8 | | | | | | RD |

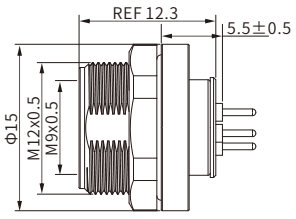
# M9 Straight Connector, Panel Mount, PCB Type, Front fastened

Male




RoHS

Female




RoHS

## Specifications

| Contacts | 2 | 3 | 4 | 5 | 7 | 8 |
|---|---|---|---|---|---|---|
| Pin layout(Male) | | | | | | |
| Pin layout(Female) | | | | | | |

| | | | |
|---|---|---|---|
| Ambient temperature | -25°C ~ +85°C | | |
| Connector insert | PBT | | |
| Connector contacts | Brass with gold plated | | |
| Coupling nut/screw | Nut: Brass with nickel plated(male)/Zinc alloy with nickel plated(Female); Screw: Brass with nickel plated | | |
| Insulation resistance | ⩾100MΩ | | |
| Contact resistance | ⩽5mΩ | | |
| Earth tag/pin | Unavailable | | |
| IP rating | IP67 in locked condition | | |
| Mating endurance | >500 cycles | | |
| Rated current | 4 A | 3 A | 1A |
| Rated voltage | 125V AC/DC | | |
| Panel cut-out | Refer to page 126 | | |
| PCB layout | Refer to page 126 | | |

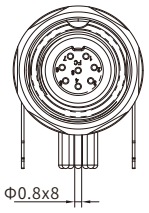
## Part Number

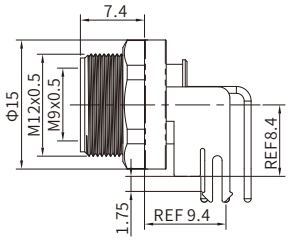
| Pins | Male | Female |
|---|---|---|
| 2 | MB09MBAFF02ST | MB09FBAFF02ST |
| 3 | MB09MBAFF03ST | MB09FBAFF03ST |
| 4 | MB09MBAFF04ST | MB09FBAFF04ST |
| 5 | MB09MBAFF05ST | MB09FBAFF05ST |
| 7 | MB09MBAFF07ST | MB09FBAFF07ST |
| 8 | MB09MBAFF08ST | MB09FBAFF08ST |

# M9 Angled Connector, Panel Mount, PCB Type, Front fastened, With Earth Pin

Female

RoHS




Thickness of PCB:1.6mm

## Specifications

| Contacts | 2 | 3 | 4 | 5 | 7 | 8 |
|---|---|---|---|---|---|---|
| Pin layout(Female) | | | | | | |
| Ambient temperature | -25°C ~ +85°C | | | | | |
| Connector insert | PBT | | | | | |
| Connector contacts | Brass with gold plated | | | | | |
| Coupling nut/screw | Brass with nickel plated/Zinc alloy with nickel plated | | | | | |
| Insulation resistance | ⩾100MΩ | | | | | |
| Contact resistance | ⩽5mΩ | | | | | |
| Earth tag/pin | Available | | | | | |
| IP rating | IP67 in locked condition | | | | | |
| Mating endurance | >500 cycles | | | | | |
| Rated current | 4 A | | 3 A | | 1A | |
| Rated voltage | 125V AC/DC | | | | | |
| Panel cut-out | Refer to page 126 | | | | | |
| PCB layout | Refer to page 126 | | | | | |

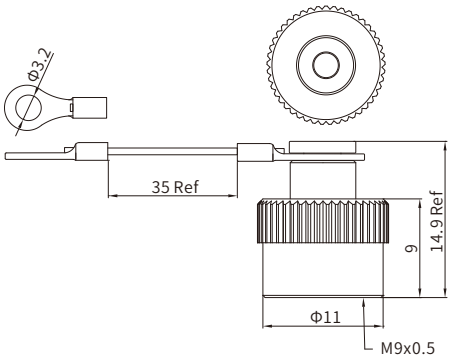
## Part Number

| Pins | Female |
|---|---|
| 2 | MB09FBSAFF02RA |
| 3 | MB09FBSAFF03RA |
| 4 | MB09FBSAFF04RA |
| 5 | MB09FBSAFF05RA |
| 7 | MB09FBSAFF07RA |
| 8 | MB09FBSAFF08RA |

# M9 Protection Cap

## M9 Protection Cap for Male Connector

- Connector series: M9
- Gender: for Male
- Locking type: Fix screw
- Part No.: PCNM9x0.5-0

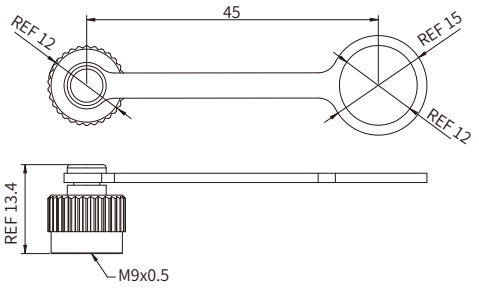



### General information

| | |
|---|---|
| Nut/Screw: | Aluminium alloy with nickel plated |
| Line: | Stainless steel |
| Gasket: | FKM |
| IP rating: | IP67 in locked condition |

## M9 Protection Cap for Male Connector

- Cover series: M9
- Gender: For male
- Locking type: Fix screw
- Part No.: PCNM9x0.5-3

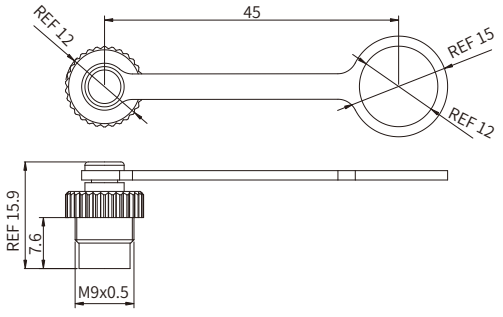



### General information

| | |
|---|---|
| Nut/Screw: | PA+GF |
| Line: | TPU |
| Gasket: | FKM |
| IP rating: | IP67 In locked condition |

## M9 Protection Cap for Female Connector

- Cover series: M9
- Gender: For female
- Locking type: Fix screw
- Part No.: PCSM9x0.5-3



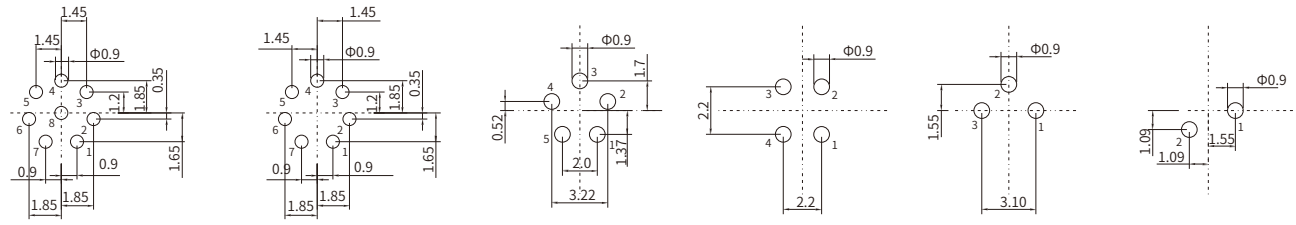

### General information

| | |
|---|---|
| Nut/Screw: | PA+GF |
| Line: | TPU |
| IP rating: | IP67 in locked condition |

# M9 PCB Layout & Panel cut-out

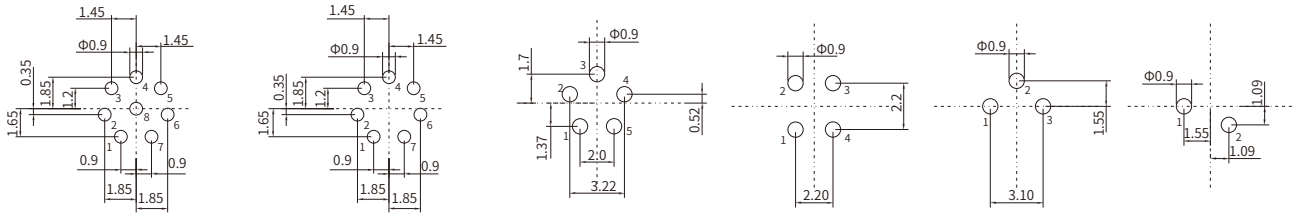
## PCB Layout

### M9 Male Connector for MB09MBAFFxxST



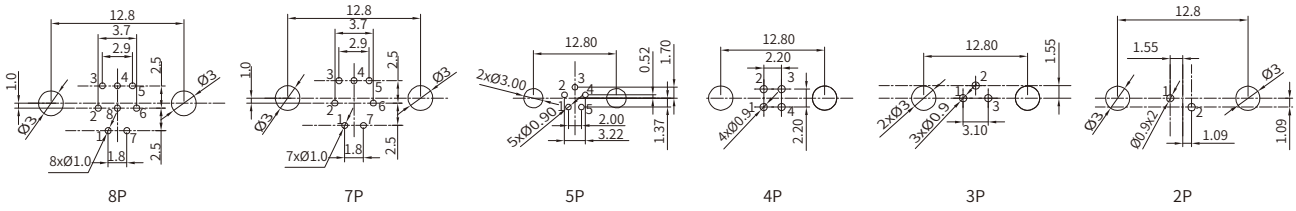

Recommended PCB Layout

### M9 Female Connector for MB09FBAFFxxST

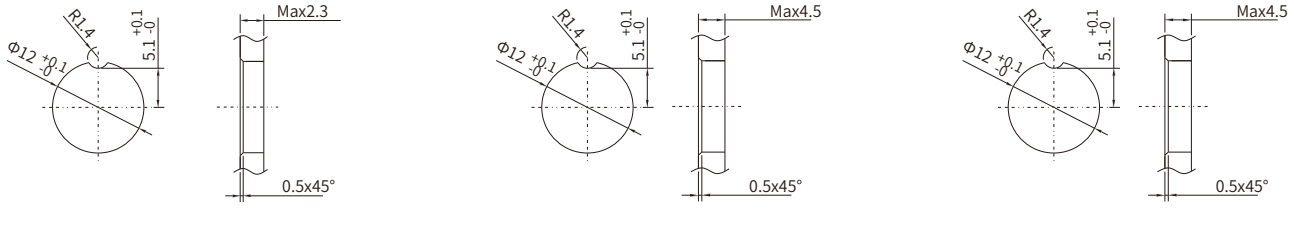



Recommended PCB Layout

### M9 Female Connector for MB09FBSAFFxxRA




## Panel Cut-out Dimensions



# Circular sensor connectors

## M10 cables & connectors (snap-in)

This type of connector is commonly used for small applications in medical and commercial industries. The push-pull cable connector enables a seamless mating process, and is available in both male and female versions with 5 and 9-gold plated contacts. When properly mated, the connection is sealed to an IP65 rating, protecting the connection from the ingress of liquids and debris.

- Degree of protection IP65
- 5, 9 poles are available
- Cable length customized, PUR and PVC cable for options

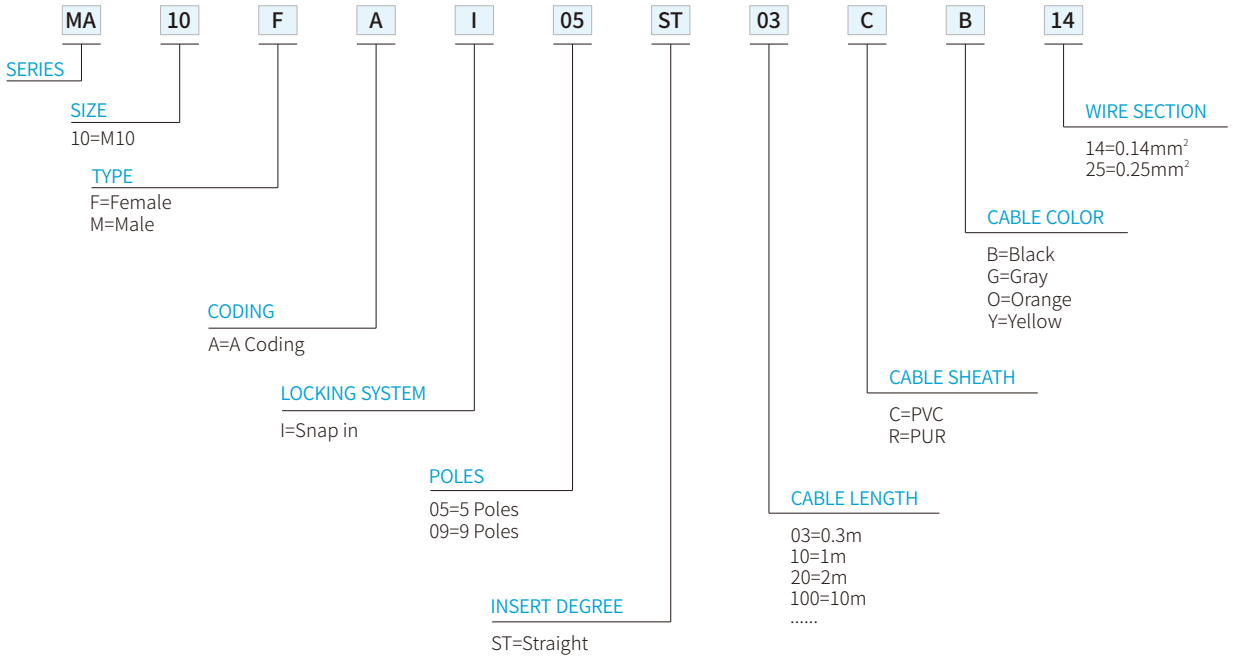
# M10 Quick Search Table

## M10 cables & connectors

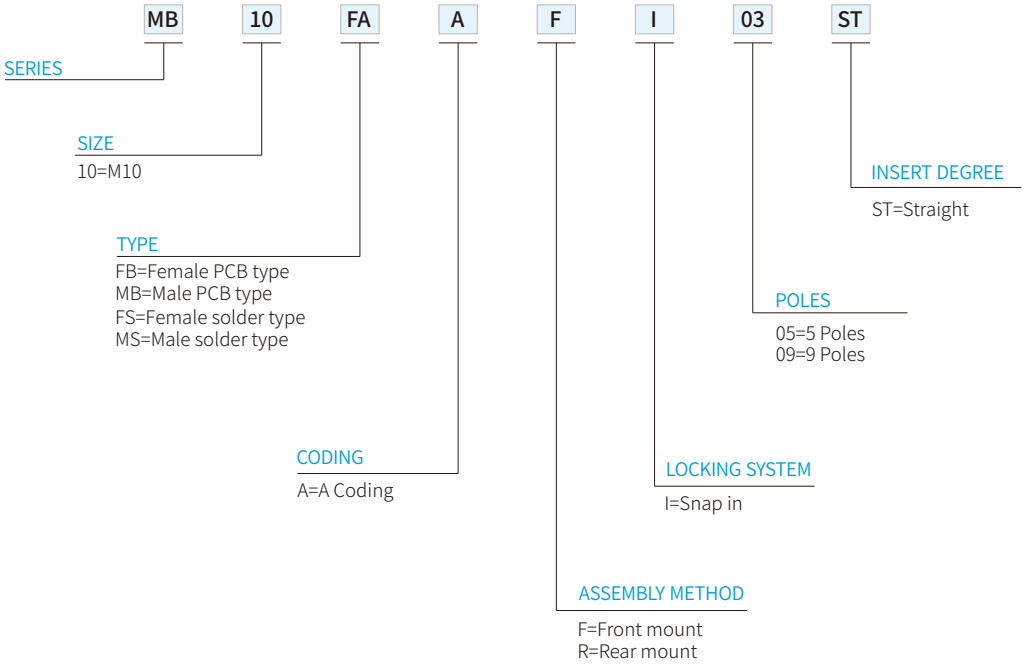
| M10 Quick Search Table | | | | | |
|---|---|---|---|---|---|
| | Locking type | Snap-in | | Snap-in | |
| | Rated Current | 2A | | 1A | |
| | Voltage | 60V(A/C) , 72V(D/C) | | 30V | |
| | Wire Gauge / size | 26AWG / 0.14mm² | | 26AWG / 0.14mm² | |
| | Pin layout | Male | Female | Male | Female |
| **Molded Cable** | | 05 Pins | | 09 Pins | |
| | Straight Connector, Molded Cable, Snap-in Type | 130 | 130 | 130 | 130 |
| **Panel Mount Type** | | 05 Pins | | 09 Pins | |
| | Straight Connector, Panel Mount, Solder Type, Rear Fastened | 131 | 131 | 131 | 131 |
| | Straight Connector, Panel Mount, PCB Type, Rear Fastened | 132 | 132 | 132 | 132 |
| **Splitter Connector** | | 05 Pins | | 09 Pins | |
| | T-Splitter, Female-Male-Female | 133 | 133 | 133 | 133 |
| | Protection Cap for Female Connector | - | 134 | - | 134 |

## How to Order Part Number

### M10 Series with cable molded




### M10 Series Assembly / Panel-mount type



# M10

## M10 Straight Connector, Molded Cable, Snap-in Type

Male

RoHS

Female

RoHS

## Specifications

| Contacts | 5 | 9 |
|---|---|---|
| Pin layout(Male) | | |
| Pin layout(Female) | | |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | |
| Connector insert | PA+GF | |
| Connector contacts | Brass with gold plated | |
| Connector overmold | TPU | |
| Seal/O-ring(of Female) | FKM | |
| Insulation resistance | ⩾20MΩ | |
| Contact resistance | ⩽5mΩ | |
| Shielding | Unavailable | |
| IP rating | IP65 in locked condition | |
| Mating endurance | >500 cycles | |
| Rated current | 2 A | 1 A |
| Rated voltage | 60V AC / 72V DC | 30V |
| Wire gauge | 0.14mm2 (AWG26) | |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 5 | 1m | MA10MAI05ST-10CB14 | MA10MAI05ST-10RB14 | MA10FAI05ST-10CB14 | MA10FAI05ST-10RB14 |
| | 3m | MA10MAI05ST-30CB14 | MA10MAI05ST-30RB14 | MA10FAI05ST-30CB14 | MA10FAI05ST-30RB14 |
| | 5m | MA10MAI05ST-50CB14 | MA10MAI05ST-50RB14 | MA10FAI05ST-50CB14 | MA10FAI05ST-50RB14 |
| 9 | 1m | MA10MAI09ST-10CB14 | MA10MAI09ST-10RB14 | MA10FAI09ST-10CB14 | MA10FAI09ST-10RB14 |
| | 3m | MA10MAI09ST-30CB14 | MA10MAI09ST-30RB14 | MA10FAI09ST-30CB14 | MA10FAI09ST-30RB14 |
| | 5m | MA10MAI09ST-50CB14 | MA10MAI09ST-50RB14 | MA10FAI09ST-50CB14 | MA10FAI09ST-50RB14 |

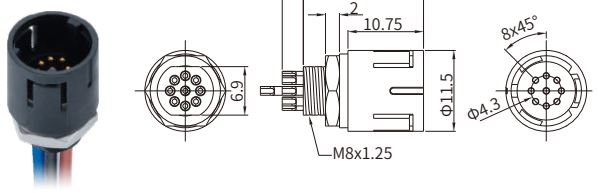
## Default wire colors

| Pin No. | | |
|---|---|---|
| Pin 1 | BN | BN |
| Pin 2 | WH | RD |
| Pin 3 | BU | OR |
| Pin 4 | BK | YE |
| Pin 5 | GY | GN |
| Pin 6 | | BU |
| Pin 7 | | GY |
| Pin 8 | | WH |
| Pin 9 | | BK |

# M10

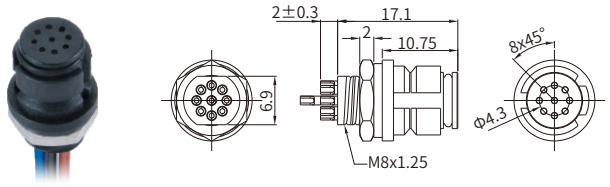
## M10 Straight Connector, Panel Mount, Solder Type, Rear Fastened

Male




RoHS

Female




RoHS

## Specifications

| Contacts | 5 | 9 |
|---|---|---|
| Pin layout(Male) | | |
| Pin layout(Female) | | |
| Ambient temperature | -15°C~+85°C (flexible installation), -30°C~+85°C (fixed installation) | |
| Customized temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | |
| Connector insert | PA+GF | |
| Connector contacts | Brass with gold plated | |
| Coupling nut/screw | Brass with nickel plated | |
| O-ring(of Female) | FKM | |
| Insulation resistance | ⩾20MΩ | |
| Contact resistance | ⩽5mΩ | |
| Earth tag/pin | Unavailable | |
| IP rating | IP65 in locked condition | |
| Mating endurance | >500 cycles | |
| Rated current | 2 A | 1 A |
| Rated voltage | 60V AC / 72V DC | 30V |
| Wire gauge | 0.14mm²(AWG26) | |

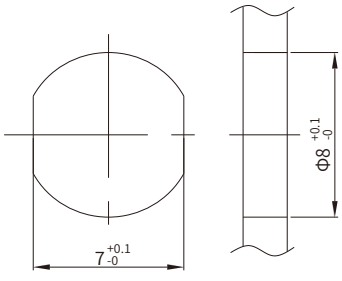
## Part Number

| Pins | Wire length | Male | Female |
|---|---|---|---|
| 5 | 0.1m | MB10MSARI05ST-1401 | MB10FSARI05ST-1401 |
| | 0.3m | MB10MSARI05ST-1403 | MB10FSARI05ST-1403 |
| 9 | 0.1m | MB10MSARI09ST-1401 | MB10FSARI09ST-1401 |
| | 0.3m | MB10MSARI09ST-1403 | MB10FSARI09ST-1403 |

## Default wire colors

| Pin No. | | |
|---|---|---|
| Pin 1 | BN | BN |
| Pin 2 | WH | RD |
| Pin 3 | BU | OR |
| Pin 4 | BK | YE |
| Pin 5 | GY | GN |
| Pin 6 | | BU |
| Pin 7 | | GY |
| Pin 8 | | WH |
| Pin 9 | | BK |

## Panel Cut-out Dimensions

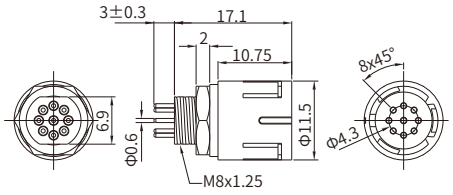



Panel cut-out

# M10

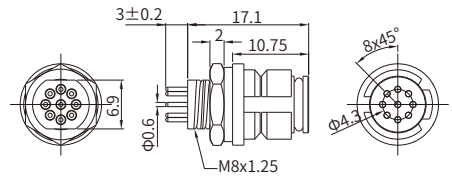
## M10 Straight Connector, Panel Mount, PCB Type, Rear Fastened

Male




RoHS

Female




RoHS

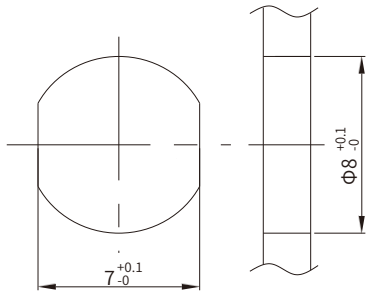
## Specifications

| Contacts | 5 | 9 |
|---|---|---|
| Pin layout(Male) | | |
| Pin layout(Female) | | |
| Ambient temperature | -25°C ~ +85°C | |
| Connector insert | PA+GF | |
| Connector contacts | Brass with gold plated | |
| Coupling nut/screw | Brass with nickel plated | |
| O-ring(of Female) | FKM | |
| Insulation resistance | ⩾20MΩ | |
| Contact resistance | ⩽5mΩ | |
| Earth tag/pin | Unavailable | |
| IP rating | IP65 in locked condition | |
| Mating endurance | >500 cycles | |
| Rated current | 2 A | 1 A |
| Rated voltage | 60V AC / 72V DC | 30V |

## Part Number

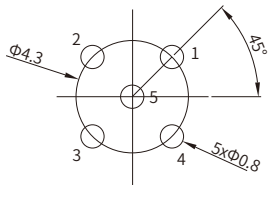
| Pins | Male | Female |
|---|---|---|
| 5 | MB10MBARI05ST | MB10FBARI05ST |
| 9 | MB10MBARI09ST | MB10FBARI09ST |

## Panel Cut-out Dimensions

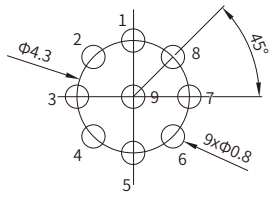



Panel cut-out

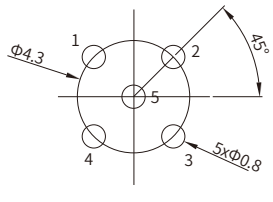
## PCB Layout



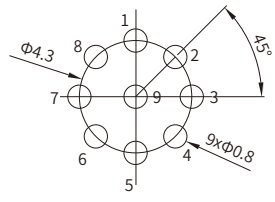

5Pins male




9Pins male




5Pins Female

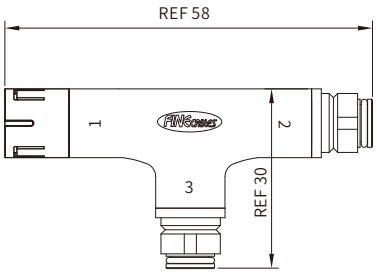



9Pins Female

# M10

## M10 T-Splitter, Female-Male-Female

RoHS



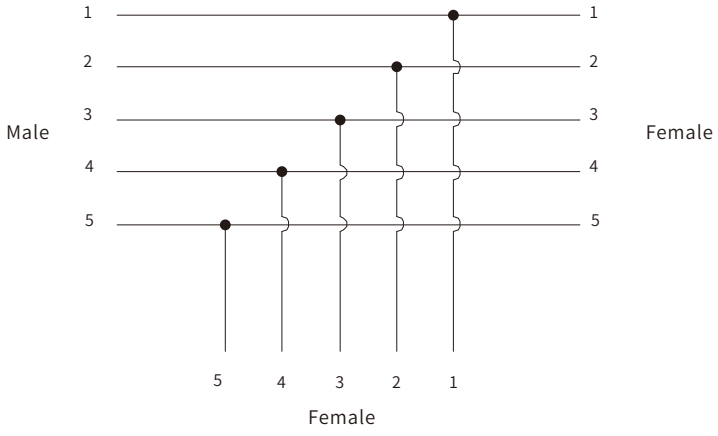

## Specifications

| Contacts | 5 |
|---|---|
| Pin layout(Male) | |
| Pin layout(Female) | |
| Ambient temperature | -25°C ~ +85°C |
| Connector insert | PA+GF |
| Connector contacts | Brass with gold plated |
| Coupling nut/screw | TPU |
| Insulation resistance | ⩾20MΩ |
| Contact resistance | ⩽5mΩ |
| Shielding | Unavailable |
| IP rating | IP65 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 2 A |
| Rated voltage | 60V AC / 72V DC |

## Part Number

| Pins | Female -Male-Female |
|---|---|
| 5 | MT10-AI05 |

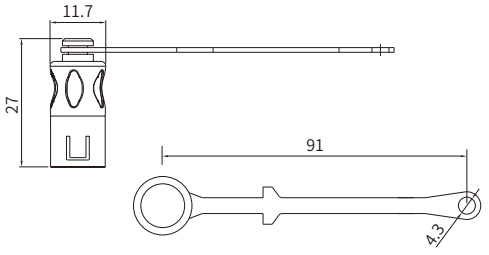
## Circuit diagram



# M10 Protection Cap

## M10 Protection Cap for Female Connector

- Connector series: M10
- Gender: for Female
- Locking type: Snap-in
- Part No.: PCNM10-1




## General information

| | |
|---|---|
| Color: | Black |
| nut/screw: | PA+GF |
| Loop: | TPU |
| IP rating | IP65 in locked condition |

# Circular sensor
## connectors

## SPE cables & connectors

The SPE series connectors only require a pair of cables to transmit data through Ethernet at speeds of 10Mbit/s to 1Gbit/s, especially achieving synchronous transmission of signals and power. The micro compact interface and wiring are simple, and the installation speed is faster. The SPE series products comply with IEC6 3171-6, have a small size, are easy to install, and support IP20 protection level. By adopting injection molding, die-casting zinc alloy casing and other technologies, it provides excellent industrial grade quality such as shielding and anti-interference. By integrating Ethernet interfaces into simple sensors, cameras, read/ID devices, or similar devices, industrial integration and IIoT (Industrial Internet of Things) can be achieved.

- Degree of protectionl IP68
- 2/4 poles are available
- TPU over-molded, panel type (soldered terminals&PCB type terminals) and assembly type
- Customized cable length and PUR or PVC cable jacket

# SPE Quick Search Table

## SPE cables & connectors

| SPE Quick Search Table | | | |
|---|---|---|---|
| | Locking type | Snap-in/Push-Pull | |
| | Rated Current | 4A | |
| | Voltage | 60V D/C | |
| | Wire Gauge / size | 0.34mm² (AWG 22 ) | |
| | Pin layout | Male | Female |
| **Molded Cable** | | 02 Pins | |
| | 6P-S8 Male Molded Cable, Snap-in, Straight, Shielded | 138 | - |
| | 6P-P8 Male Molded Cable, Push-Pull, Straight, Shielded | 139 | - |
| | M8 Hybrid Female Straight Shielded Connector, TPU Overmolding | - | - |
| **Panel Mount Type** | | 02 Pins | |
| | M8 2P Connectors, Cable Assembly, Male Straight Shielded | - | - |
| | M8 hybrid Connectors, Cable Assembly, Male Straight Shielded | - | - |
| | M12 2P Connectors, Cable Assembly, Male Straight Shielded | - | - |
| | Industrial Connectors, Cable Assembly, Male Straight Shielded | - | - |
| **Splitter Connector** | | 02 Pins | |
| | M8 2P Female, Panel Mount, PCB Type, Rear Fastened, Shielded | - | - |
| | 6J-S8 Female Panel Mount, Snap-in, PCB Type, Rear Fastened, Shielded | - | 146 |
| | 6J-P8 Female Panel Mount, Push-Pull, PCB Type, Rear Fastened, Shielded | - | 147 |
| | M12 2P Female, Panel Mount, PCB Type, Rear Fastened, Shielded | - | - |
| | M8 Hybrid, Panel Mount, PCB Type, Front fastened, Shielded | - | - |
| | Industrial PCB Board Connector Female | - | - |

## How to Order Part Number

### SPE Series with cable molded

**SPEA 12 M F 02 ST 03 R B 34**

- **SERIES**
- **SIZE**
  - 12=M12
  - 08=M8
  - T1=00
- **TYPE**
  - F=Female
  - M=Male
  - FS=Female shield
  - MS=Male shield
  - FR= Female reversed style
  - MR= Male reversed style
- **LOCKING SYSTEM**
  - L=Latch locking
  - I=Snap-in locking
  - F=Fixed screw locking
  - P=Plastic fix screw locking
  - HD=Hex Die-cast screw
  - PP=Push pull locking
- **POLES**
  - 02=02 Poles
  - 04=04 Poles
- **INSERT DEGREE**
  - ST=straight
- **CABLE LENGTH**
  - 03=0.3m
  - 10=1m
  - 20=2m
  - 100=10m
  - .....
- **CABLE SHEATH**
  - C=PVC
  - R=PUR
- **CABLE COLOR**
  - B=Black
  - Y=Yellow
- **WIRE SECTION**
  - 14=0.14mm²
  - 34=0.34mm²
  - 81=0.81mm²

# SPE Quick Search Table

## SPE cables & connectors

| Fix screw | | Lock Bayonet | | Fix screw | |
|---|---|---|---|---|---|
| 4A | | 4A | | 4A (Signal pins) 8A (Power pins) | |
| 60V D/C | | 60V D/C | | 60V D/C | |
| 0.34mm² (AWG 22 ) | | 0.34mm² (AWG 22 ) | | 2*0.34mm2+ 2*0.81mm2(2*22AWG+2*18AWG) | |
| Male | Female | Male | Female | Male | Female |
| 02 Pins | | 02 Pins | | 04 Pins | |
| - | - | - | - | - | - |
| - | - | - | - | - | - |
| - | - | - | - | - | 140 |
| 02 Pins | | 02 Pins | | 04 Pins | |
| 141 | - | - | - | - | - |
| - | - | - | - | 142 | - |
| 143 | - | - | - | - | - |
| - | - | 144 | - | - | - |
| 02 Pins | | 02 Pins | | 04 Pins | |
| - | 145 | - | - | - | - |
| - | - | - | - | - | - |
| - | - | - | - | - | - |
| - | 148 | - | - | - | - |
| - | - | - | - | 149 | 149 |
| - | - | - | 150 | - | - |

## How to Order Part Number

### SPE Series Assembly / Panel-mount type

SPEB | 12 | M | F | F | 02 | ST

**SERIES**

**SIZE**
12=M12
08=M8
T1=00

**TYPE**
F=Female
M=Male
FS=Female shield
MS=Male shield
FR= Female reversed style
MR= Male reversed style
FSS=Female solder shield type
MSS=Male solder shield type
FCS=Female crimp shield type
MCS=Male crimp shield type
FBS=Female PCB shield type
MBS=Male PCB shield type

**LOCKING SYSTEM**
L=Latch locking
I=Snap-in locking
F=Fixed screw locking
P=Plastic fix screw locking
HD=Hex Die-cast screw locking
PP=Push pull locking

**ASSEMBLY METHOD**
F=Front mount
R=Rear mount
FL=Flange

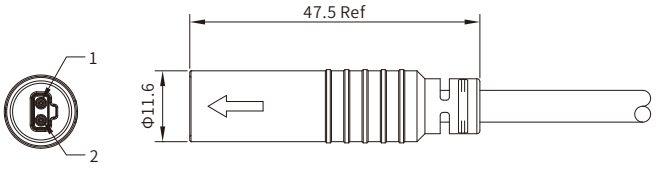
**POLES**
02=02 Poles
04=04 Poles

**INSERT DEGREE**
ST=Straight

# SPE

## SPE 6P-S8 Male Molded Cable, Snap-in, Straight, Shielded

Male




RoHS

## Specifications

| Contacts | 2 |
|---|---|
| Pinlayout(Male) | |
| Standard | IEC 63171-6-2021 |
| Ambient temperature | -40°C ~ + 80°C(fixed installation) -25°C ~ + 80°C(flexible installation) |
| Connector insert | PA |
| Connector overmold | TPU |
| Connector contacts | Brass with gold plated |
| Insulation resistance | ⩾ 500 MΩ |
| Contact resistance | ⩽ 20 mΩ |
| Shielding | Available |
| IP rating | IP67 |
| Mating endurance | >1000 cycles |
| Rated current | 4A |
| Voltage | 60V D/C |
| Wire gauge / size | 0.34mm² (AWG 22 ) |

## Part Number

| Pins | Cable length | Male | |
|---|---|---|---|
| | | PVC | PUR |
| 2 | 0.3m | SPEA08MSI02ST03CB34 | SPEA08MSI02ST03RB34 |
| | 1m | SPEA08MSI02ST10CB34 | SPEA08MSI02ST10RB34 |
| | 2m | SPEA08MSI02ST20CB34 | SPEA08MSI02ST20RB34 |
| | 10m | SPEA08MSI02ST100CB34 | SPEA08MSI02ST100RB34 |

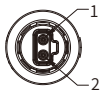
## Default wire colors

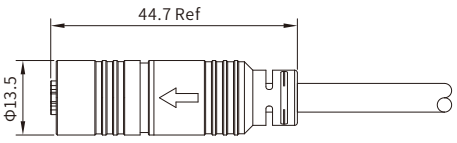
| Pin No. | |
|---|---|
| Pin 1 | WH |
| Pin 2 | BU |
| Shell | Braid |

# SPE

## SPE 6P-P8 Male Molded Cable, Push-Pull, Straight, Shielded

Male




RoHS

## Specifications

| Contacts | 2 |
|---|---|
| Pinlayout(Male) | |
| Standard | IEC 63171-6-2021 |
| Ambient temperature | -40°C ~ + 80°C(fixed installation) -25°C ~ + 80°C(flexible installation) |
| Connector insert | PA |
| Connector overmold | TPU |
| Connector contacts | Brass with gold plated |
| Insulation resistance | ⩾ 500 MΩ |
| Contact resistance | ⩽ 20 mΩ |
| Shielding | Available |
| IP rating | IP67 |
| Mating endurance | >1000 cycles |
| Rated current | 4A |
| Voltage | 60V D/C |
| Wire gauge / size | 0.34mm² (AWG 22 ) |

## Part Number

| Pins | Cable length | Male | |
|---|---|---|---|
| | | PVC | PUR |
| 2 | 0.3m | SPEA08MSPP02ST03CB34 | SPEA08MSPP02ST03RB34 |
| | 1m | SPEA08MSPP02ST10CB34 | SPEA08MSPP02ST10RB34 |
| | 2m | SPEA08MSPP02ST20CB34 | SPEA08MSPP02ST20RB34 |
| | 10m | SPEA08MSPP02ST100CB34 | SPEA08MSPP02ST100RB34 |

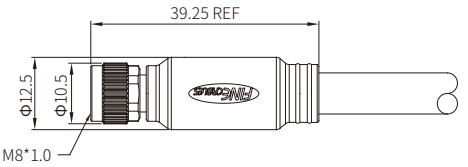
## Default wire colors

| Pin No. | |
|---|---|
| Pin 1 | WH |
| Pin 2 | BU |
| Shell | Braid |

# SPE

## M8 Hybrid Female Straight Shielded Connector, TPU Overmolding

Female




**RoHS**

## Specifications

| Contacts | 4 |
|---|---|
| Pinlayout(Female) | |
| Standard | IEC 63171-6-2021 |
| Ambient temperature | -40 °C ~ + 80 °C |
| Connector insert | PA |
| Connector contacts | Brass with gold plated |
| Connector shield | Brass with nickel plated |
| Insulation resistance | ⩾ 500 MΩ |
| Contact resistance | ⩽ 20 mΩ |
| Shielding | Available |
| IP rating | IP67 |
| Mating endurance | >500 cycles |
| Insertion/withdrawal foce | 50N Max. |
| Rated current | 4A (Signal pins) 8A (Power pins) |
| Voltage | 60V D/C |
| Wire gauge / size | 2*22AWG (0.34mm²)+2*18AWG(0.81mm²) |

## Part Number

| Pins | Cable length | Female | |
|---|---|---|---|
| | | PVC | PUR |
| 4 | 0.3m | SPEA08FSF04ST03CB34 | SPEA08FSF04ST03RB34 |
| | 1m | SPEA08FSF04ST10CB34 | SPEA08FSF04ST10RB34 |
| | 2m | SPEA08FSF04ST20CB34 | SPEA08FSF04ST20RB34 |
| | 10m | SPEA08FSF04ST100CB34 | SPEA08FSF04ST100RB34 |

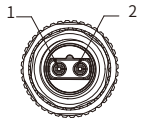
## Default wire colors

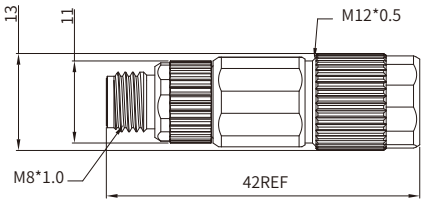
| Pin No. | |
|---|---|
| Pin 1 | RD |
| Pin 2 | BK |
| Pin 3 | BU |
| Pin 4 | WH |
| Shell | Braid |

# SPE

## M8 2P Connectors, Cable Assembly, Male Straight Shielded

Male




RoHS

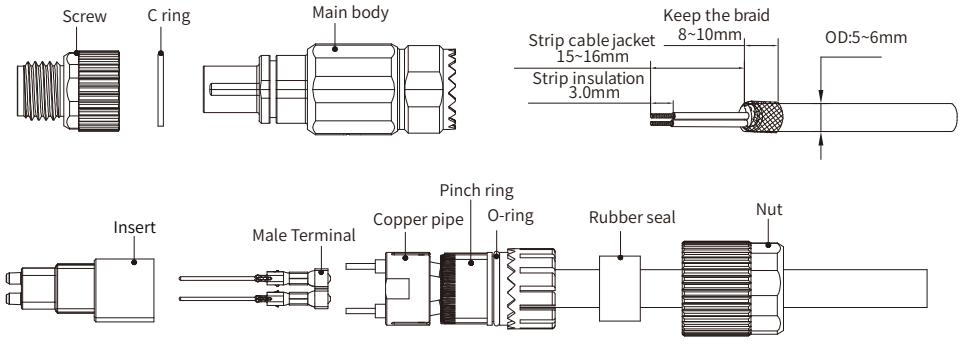
## Specifications

| Contacts | 2 |
|---|---|
| Pinlayout(Male) | |
| Standard | IEC 63171-6-2021 |
| Ambient temperature | -40°C~+80°C |
| Connector insert | PA |
| Connector contacts | Brass with gold plated |
| Connector shield | Zinc alloy |
| Insulation resistance | ⩾500 MΩ |
| Contact resistance | ⩽20 mΩ |
| Shielding | Available |
| IP rating | IP67 |
| Mating endurance | >500 cycles |
| Insertion/withdrawal foce | 50N Max. |
| Rated current | 4A |
| Voltage | 60VD/C |
| Wire gauge/size | 0.34mm$^2$(AWG 22) |

## Part Number

| Pins | Male |
|---|---|
| 2 | SPEB08MCSFF02ST |

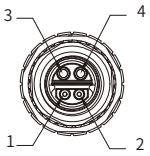
## Assembly Instruction

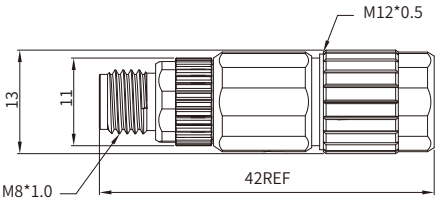


# SPE

## M8 hybrid Connectors, Cable Assembly, Male Straight Shielded

Male




**RoHS**

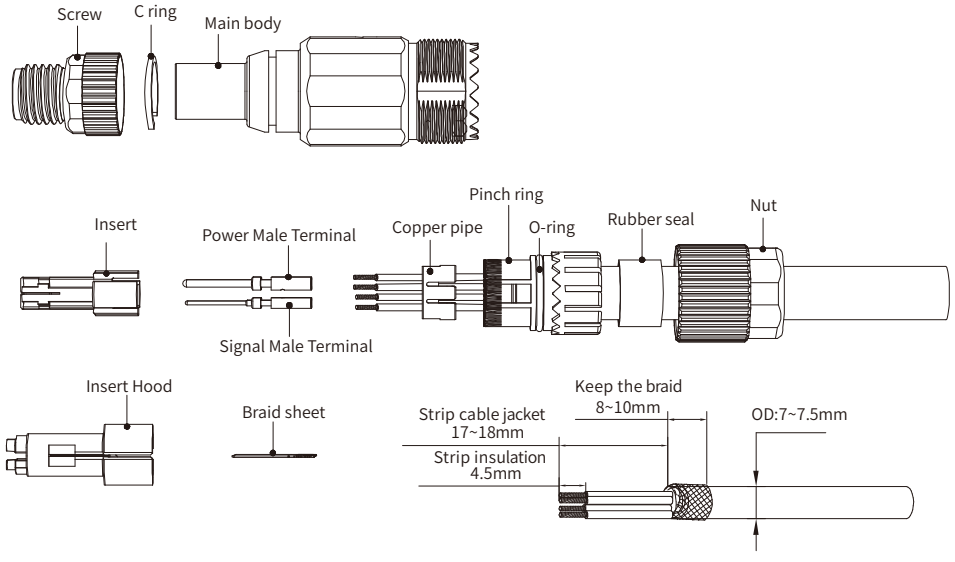
## Specifications

| Contacts | 4 |
|---|---|
| Pinlayout(Male) | |
| Standard | IEC 63171-6-2021 |
| Ambient temperature | -40°C~+80°C |
| Connector insert | PA |
| Connector contacts | Brass with gold plated |
| Connector shield | Zinc alloy |
| Insulation resistance | ⩾500 MΩ |
| Contact resistance | ⩽20 mΩ |
| Shielding | Available |
| IP rating | IP67 |
| Mating endurance | >500 cycles |
| Insertion/withdrawal foce | 50N Max. |
| Rated current | 4A (Signal pins) 8A (Power pins) |
| Voltage | 60V D/C |
| Wire gauge/size | 2*0.34mm$^2$+ 2*0.81mm$^2$(2*22AWG+2*18AWG) |

## Part Number

| Pins | Male |
|---|---|
| 4 | SPEB08MCSFF04ST |

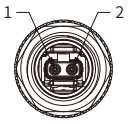
## Assembly Instruction

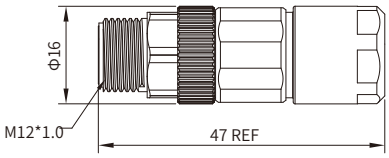


# SPE

## M12 2P Connectors, Cable Assembly, Male Straight Shielded

Male




RoHS

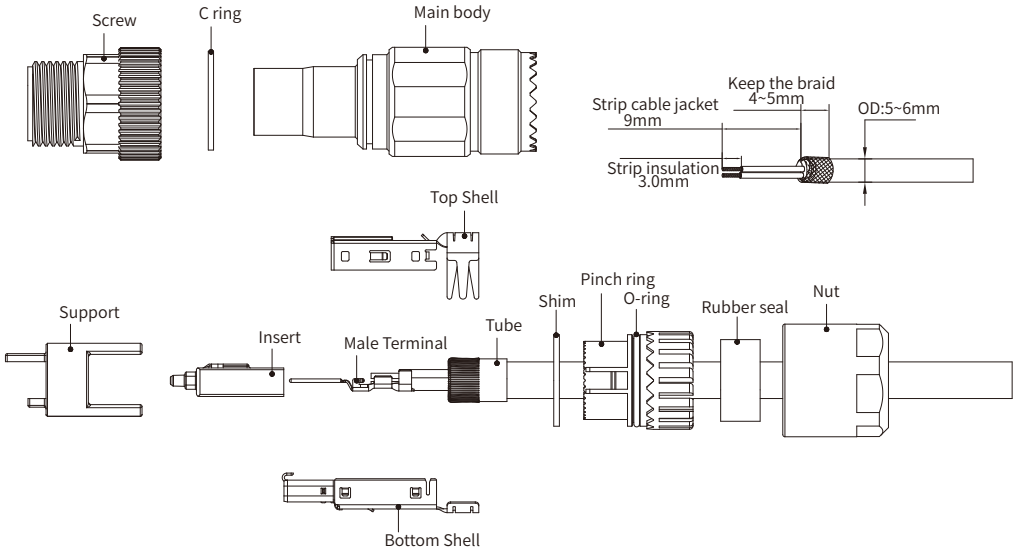
## Specifications

| Contacts | 2 |
|---|---|
| Pinlayout(Male) | |
| Standard | IEC 63171-6-2021 |
| Ambient temperature | -40 °C ~ + 80 °C |
| Connector insert | PA |
| Connector contacts | Brass with gold plated |
| Connector shield | Zinc alloy |
| Insulation resistance | ⩾ 500 MΩ |
| Contact resistance | ⩽ 20 mΩ |
| Shielding | Available |
| IP rating | IP67 |
| Mating endurance | >500 cycles |
| Insertion/withdrawal foce | 50N Max. |
| Rated current | 4A |
| Voltage | 60V D/C |
| Wire gauge / size | 0.34mm²(AWG 22) |

## Part Number

| Pins | Male |
|---|---|
| 2 | SPEB12MCSFF02ST |

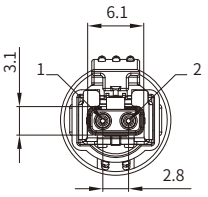
## Assembly Instruction

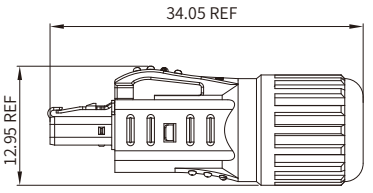


# SPE

## Industrial Connectors, Cable Assembly, Male Straight Shielded

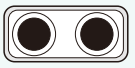
Male




**RoHS**

## Specifications

| Contacts | 2 |
|---|---|
| Pin layout(Male) |  |
| Standard | IEC 63171-6-2021 |
| Ambient temperature | -40°C ~ + 80°C |
| Connector insert | PA |
| Connector contacts | Brass with gold plated |
| Connector shield | Stainless Steel |
| Pull-out force | 50N Min. |
| Insulation resistance | ⩾ 500 MΩ |
| Contact resistance | ⩽ 20 mΩ |
| Shielding | Available |
| IP rating | IP20 |
| Mating endurance | >1000 cycles |
| Insertion/withdrawal foce | 20N Max. |
| Rated current | 4A |
| Voltage | 60V D/C |
| Wire gauge / size | 0.34mm$^2$(AWG 22) |

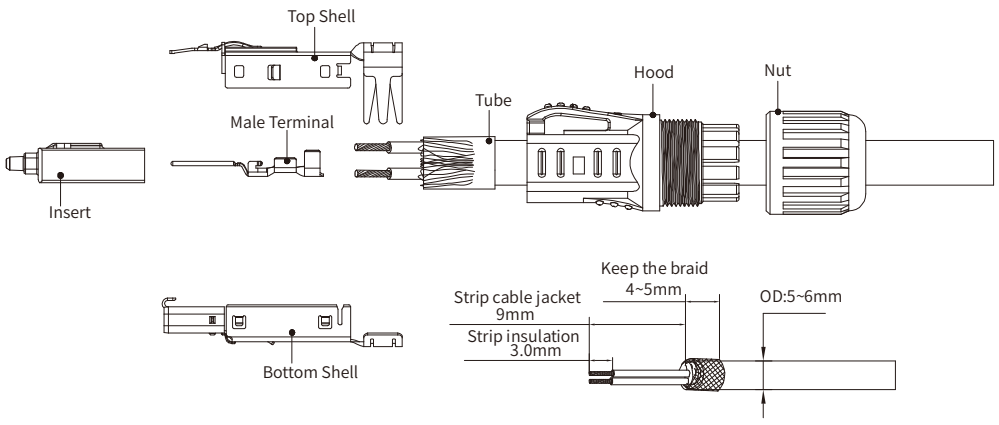
## Part Number

| Pins | Male |
|---|---|
| 2 | SPEBT1MCSLF02ST |

## Default wire colors

| Pin No. | |
|---|---|
| Pin 1 | WH |
| Pin 2 | BU |
| Shell | Braid |

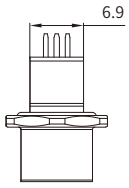
## Assembly Instruction

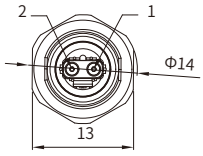


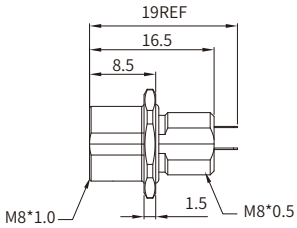
# SPE

## M8 2P Female, Panel Mount, PCB Type, Rear fastened, Shielded

Female




CE RoHS IP67

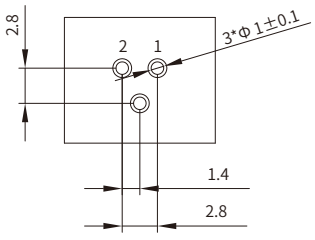
## Specifications

| Contacts | 2 |
|---|---|
| Pinlayout(Female) | |
| Standard | IEC 63171-6-2021 |
| Ambient temperature | -40°C~+80°C |
| Connector insert | PA |
| Connector contacts | Brass with gold plated |
| Connector shield | Zinc alloy |
| Insulation resistance | ⩾500 MΩ |
| Contact resistance | ⩽20 mΩ |
| Shielding | Available |
| IP rating | IP67 |
| Mating endurance | >500 cycles |
| Insertion/withdrawal foce | 50N Max. |
| Rated current | 4A |
| Voltage | 60V D/C |

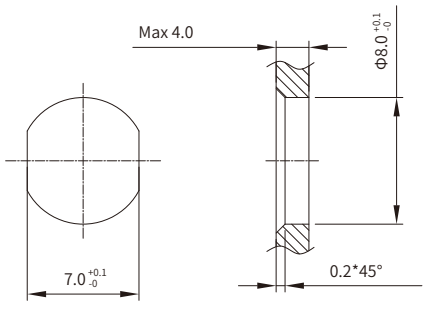
## Part Number

| Pins | Female |
|---|---|
| 2 | SPEB08FBSHDR02ST |

## Panel cut-out&PCB layout




Recommended PCB layout
PCB thickness: 1.6mm

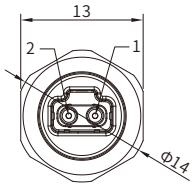


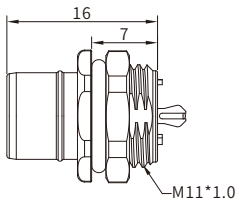

Recommended panel cut-out

# SPE

## SPE 6J-S8 Female Panel Mount, Snap-in, PCB Type, Rear fastened, Shielded

Female




CE RoHS

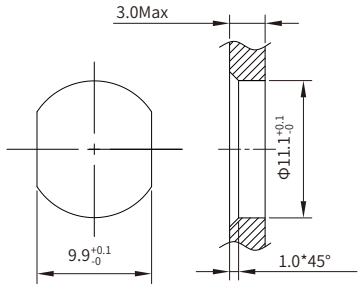
## Specifications

| Contacts | 2 |
|---|---|
| Pinlayout(Female) | |
| Standard | IEC 63171-6-2021 |
| Ambient temperature | -40 °C ~ + 80 °C |
| Connector insert | PA |
| Connector contacts | Brass with gold plated |
| Connector shield | Stainless Steel |
| Insulation resistance | ⩾ 500 MΩ |
| Contact resistance | ⩽ 20 mΩ |
| Shielding | Available |
| IP rating | IP67 |
| Mating endurance | >1000 cycles |
| Rated current | 4A |
| Voltage | 60VD/C |

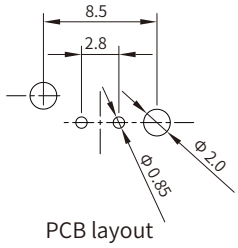
## Part Number

| Pins | Female |
|---|---|
| 2 | SPEB08FBSIR02ST |

## Panel cut-out&PCB layout




Recommend panel cut-out

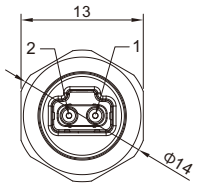


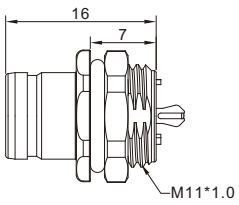

PCB layout

# SPE

## SPE 6J-P8 Female Panel Mount, Push-Pull, PCB Type, Rear fastened, Shielded

Female




CE RoHS IP67

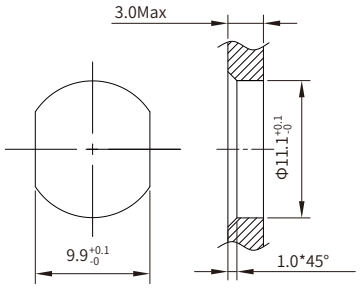
## Specifications

| Contacts | 2 |
|---|---|
| Pinlayout(Female) | |
| Standard | IEC 63171-6-2021 |
| Ambient temperature | -40 °C ~ + 80 °C |
| Connector insert | PA |
| Connector contacts | Brass with gold plated |
| Connector shield | Stainless Steel |
| Insulation resistance | ⩾ 500 MΩ |
| Contact resistance | ⩽ 20 mΩ |
| Shielding | Available |
| IP rating | IP67 |
| Mating endurance | >1000 cycles |
| Rated current | 4A |
| Voltage | 60VD/C |

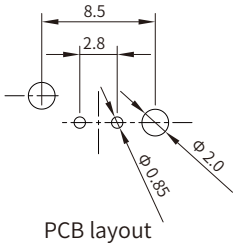
## Part Number

| Pins | Female |
|---|---|
| 2 | SPEB08FBSPPR02ST |

## Panel cut-out&PCB layout




Recommend panel cut-out

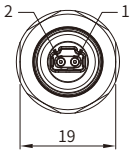


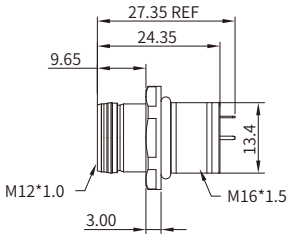

PCB layout

# SPE

## M12 2P Female, Panel Mount, PCB Type, Rear fastened, Shielded

Female




CE RoHS

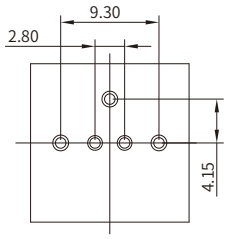
## Specifications

| Contacts | 2 |
|---|---|
| Pinlayout(Female) | |
| Standard | IEC 63171-6-2021 |
| Ambient temperature | -40 °C ~ + 80 °C |
| Connector insert | PA |
| Connector contacts | Brass with gold plated |
| Connector shield | Zinc alloy |
| Insulation resistance | ⩾ 500 MΩ |
| Contact resistance | ⩽ 20 mΩ |
| Shielding | Available |
| IP rating | IP67 |
| Mating endurance | >500 cycles |
| Insertion/withdrawal foce | 50N Max. |
| Rated current | 4A |
| Voltage | 60V D/C |

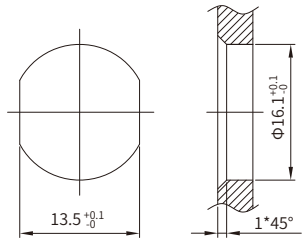
## Part Number

| Pins | Female |
|---|---|
| 2 | SPEB12FBSFR02ST |

## Panel cut-out&PCB layout




Recommended PCB layout
PCB thickness: 1.6mm

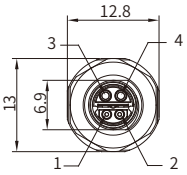


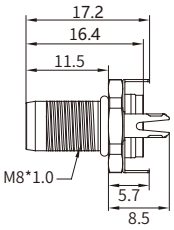

Recommended panel cut-out

# SPE

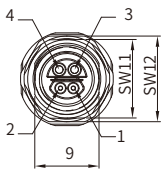
## M8 Hybrid, Panel Mount, PCB Type, Front fastened, Shielded

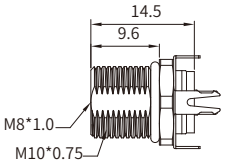
Male




Female




CE RoHS IP67

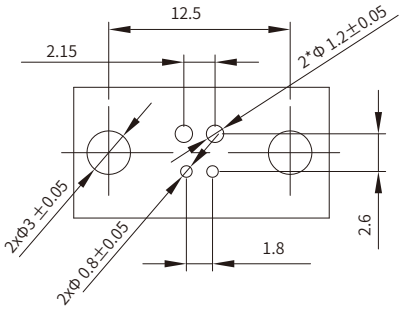
## Specifications

| Contacts | 4 |
|---|---|
| Pinlayout(Male) | |
| Pinlayout(Female) | |
| Standard | IEC 63171-6-2021 |
| Ambient temperature | -40°C~+80°C |
| Connector insert | PA |
| Connector contacts | Brass with gold plated |
| Connector shield | Zinc alloy |
| Insulation resistance | ≥500MΩ |
| Contact resistance | ≤20mΩ |
| Shielding | Available |
| IP rating | IP67 |
| Mating endurance | >500 cycles |
| Insertion/withdrawal foce | 50N Max. |
| Rated current | 4A (Signal pins) 8A (Power pins) |
| Voltage | 60V D/C |

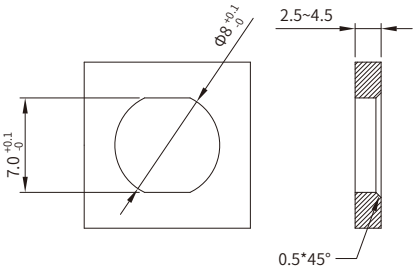
## Part Number

| Pins | Male | Female |
|---|---|---|
| 4 | SPEB08MBSHDF04ST | SPEB08FBSHDF04ST |

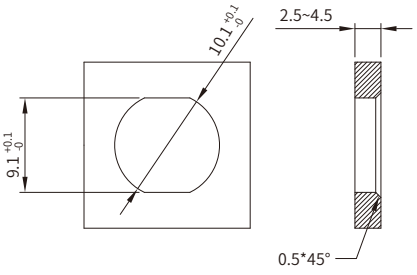
## Panel cut-out&PCB layout




Recommended PCB layout
PCB thickness: 1.6mm




Recommended panel size (Male)

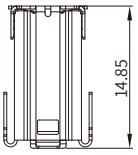


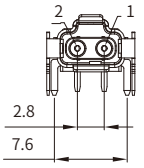

Recommended panel size (Female)

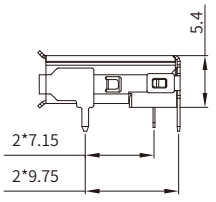
# SPE

## Industrial PCB Board Connector Female

Female

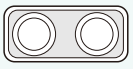



CE RoHS

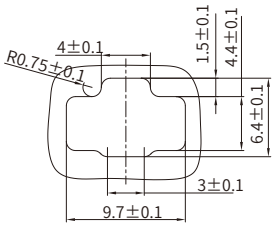
## Specifications

| Contacts | 2 |
|---|---|
| Pinlayout(Female) |  |
| Standard | IEC 63171-6-2021 |
| Ambient temperature | -40°C~+80°C |
| Connector insert | PA |
| Connector contacts | Brass with gold plated |
| Connector shield | Stainless Steel |
| Pull-out force | 50N Min. |
| Insulation resistance | ⩾500 MΩ |
| Contact resistance | ⩽20 mΩ |
| Shielding | Available |
| IP rating | IP20 |
| Mating endurance | >1000 cycles |
| Insertion/withdrawal foce | 20N Max. |
| Contacts termination | Throughhole |
| Rated current | 4A |
| Voltage | 60VD/C |

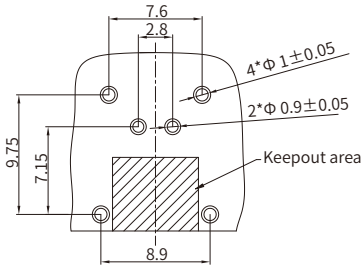
## Part Number

| Pins | Female |
|---|---|
| 2 | SPEBT1FSLF02ST |

## Assembly Instruction




Panel Cutout




PCB Layout
Tolerance:±0.05

# Circular sensor
## connectors

## M12 cables & connectors

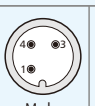
M12 circular connectors facilitate the simple and cost-effective connection of signal, data and power in the automation industry. Finecables M12 series are widely used in many applications of automation, such as sensor& actuator, CANopen, DeviceNET, Profibus,PROFINET, EtherCAT, Ethernet, INTERBUS,CC-Link, Motor servo, Digital camera, Railway process control, and so on.

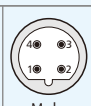
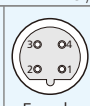
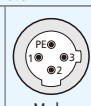
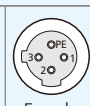
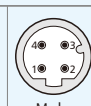
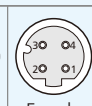
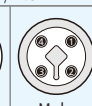
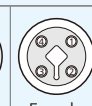
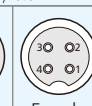
- In accordance with IEC 61076-2-101, IEC 61076-2-111 or IEC 61076-2-113
- UL approvals with UL Listed or UL recognized
- Screw-locking, Quick-locking, Push-pull self-latching and Snap-in
- Up to 17 poles, up to 10G bits, up to 16A or up to 630V
- Cable connectors, Panel mounted receptacles, Field attachable/installable connectors, Adapter/ T-splitter/Y-splitter/Terminator/Protection cap, and Accessories
- A, B, D, X , Y(1/2/3/4), C, S, T, K, L, M codings are available
- 360° Shielded or Non-shielded
- TPU over molded and PA+GF or Metal housing
- Anti-vibration locking design
- Right angled PCB panel connector is available
- Customized cable length and PUR or PVC cable jacket

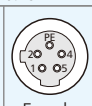
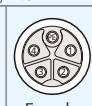
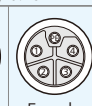
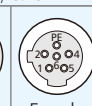
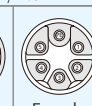
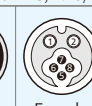
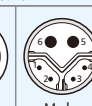
# M12 Quick Search Table

M12 cables & connectors

**M12**
**Quick Search Table**

| | Available Coding | A-coding | | B-coding | |
|---|---|---|---|---|---|
| | Rated Current | 4A | | | |
| | Voltage | 250V | | | |
| | Wire Gauge / size | 22AWG / 0.34mm² | | | |
| | Pin layout |  Male | Female | Male | Female |
| **Molded Cable** | | | 3 Pins | | |
| | Straight Connector, Molded Cable | 161 | 161 | 173 | 173 |
| | Straight Connector, Molded Cable, Shielded | 162 | 162 | 174 | 174 |
| | Straight Connector, Molded Cable, Plastic | 163 | 163 | 175 | 175 |
| | Angled Connector, Molded Cable | 164 | 164 | 176 | 176 |
| | Angled Connector, Molded Cable, Shielded | 165 | 165 | 177 | 177 |
| | Angled Connector, Molded Cable, Plastic | 166 | 166 | 178 | 178 |
| | Push-Pull Male Straight Connector, Molded Cable, Shielded | - | - | 179 | - |
| | Straight Connector, Molded Cable, with LED Indicator | - | - | - | - |
| | Angled Connector, Molded Cable, with LED Indicator | - | - | - | - |
| | Straight Connector, Molded 2 Cables | 170 | 170 | 180 | 180 |
| | Angled Connector, Molded 2 Cables | 171 | 171 | 181 | 181 |
| | Straight Connector, Molded Cable, Snap-in Type | 172 | 172 | 182 | 182 |
| | Straight Molded Cable, Quick-lock Type, With Fix-cap | - | - | - | - |
| | Straight Molded Cable, Quick-lock Type, Reversed polarity, With Fix-cap | - | - | - | - |
| | Micro-change 1/2"-20UNF Straight Connector, Molded Cable | - | - | - | - |
| **Assembly Type** | | | 3 Pins | | |
| | Straight Connector, Field Wirable Assembly, Solder | 226 | 226 | 240 | 240 |
| | Angled Connector, Field Wirable Assembly, Solder | 227 | 227 | 241 | 241 |
| | Straight Connector, Field Wirable Assembly, Screw joint, Shielded | 228 | 228 | 242 | 242 |
| | Straight Connector, Field Wirable Assembly, Push-pull type, Shielded | - | - | - | - |
| | Straight Connector, Field Assembly, Crimp Type, Shielded | 230 | 230 | 243 | 243 |
| | Straight Connector, Field Wirable Assembly, Piercing | 231 | 231 | - | - |
| | Angled Connector, Field Wirable Assembly, Screw joint, Shielded with Die-cast body | 232 | 232 | 244 | 244 |
| | Straight Connector, Field Wirable Assembly, Screw joint | 233 | 233 | 245 | 245 |
| | Straight Connector, Field Wirable Assembly, Screw joint | 234 | 234 | 246 | 246 |
| | Straight Connector Field Wirable Assembly，Spring clamp terminals | 235 | 235 | 247 | 247 |
| | Straight Connector, Field Wirable Assembly, Screw joint, Plastic | 236 | 236 | 248 | 248 |
| | Angled Connector, Field Wirable Assembly, Screw joint | 237 | 237 | 249 | 249 |
| | Angled Connector, Field Wirable Assembly, Screw joint，Die-cast Screw/Nut | 238 | 238 | 250 | 250 |
| | Angled Connector, Field Wirable Assembly, Screw joint, Plastic | 239 | 239 | 251 | 251 |
| | Quick-lock Type, Straight Connector, Field Wirable Assembly, With Fix-cap | - | - | - | - |
| | Quick-lock Type, Straight Connector, Field Wirable Assembly, Reversed Polarity, With Fix-cap | - | - | - | - |
| | Straight Connector, Field Wirable Assembly, Outer Push-Pull Thin Type,Shielded, Steel Ball Application | - | - | - | - |
| | Straight Connector, Field Wirable Assembly, Outer Push-pull type, Shielded | - | - | - | - |
| | Straight Connector, Male, Assembly Type | - | - | - | - |
| **Panel Mount Type** | | | 3 Pins | | |
| | Straight Connector, Panel Mount, Die-cast Screw, Solder, Front fastened | 279 | 279 | 302 | 302 |
| | Straight Connector, Panel Mount, Plastic Solder, Front fastened | 280 | 280 | 303 | 303 |
| | Straight Connector, Panel Mount, Die-cast Screw, Solder, Rear fastened | 281 | 281 | 304 | 304 |
| | Straight Connector, Panel Mount, Solder, Front fastened | 282 | 282 | 305 | 305 |
| | Straight Connector, Panel Mount, Plastic Solder | - | - | - | - |
| | Straight Connector, Panel Mount, Solder, Rear fastened | 284 | 284 | 306 | 306 |
| | Straight Connector, Panel Mount, Solder, Rear fastened, Adjustable Nut | 285 | 285 | 307 | 307 |
| | Push-Pull Female Straight Panel Mount, Front fastened, Shielded | - | 286 | - | 308 |
| | Straight Connector, Rotated Screw, Panel Mounted, Solder, Rear Fastened | - | 287 | - | - |
| | Straight Connector, Panel Mount, Solder, with Flange | 288 | 288 | 309 | 309 |
| | Straight Connector, Panel Mount, Die-cast Screw, PCB Type, Front fastened | 289 | 289 | 310 | 310 |
| | Straight Connector, Panel Mount, Plastic PCB Type, Front fastened | 290/295 | 290/295 | 311 | 311 |
| | Straight Connector, Panel Mount, Die-cast Screw, PCB Type, Rear fastened | 291 | 291 | 312 | 312 |
| | Straight Connector, Panel, Die-cast Screw, PCB Type, Front fastened, With Earth Pin | 292 | 292 | 313 | 313 |
| | Straight Connector, Panel Mount, PCB Type, Front fastened | 293/294 | 293 | 314/315 | 314/315 |
| | Straight Connector, Panel Mount, PCB Type, Front Fastened, With Earth Pin | 296/297 | 296/297 | 316/318 | 316/318 |

| C-coding | | A-coding | | B-coding | | C-coding | | D-coding | | S-coding | | T-coding | | Quick-lock | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4A | | 4A | | | | | | | | 12A(40°C) | | | | 4A | |
| 250V | | 250V | | | | | | | | 630V | | 63V | | 250V | |
| 22AWG / 0.34mm² | | 22AWG / 0.34mm² | | | | | | | | 16AWG / 1.5mm² | | | | 22AWG / 0.34mm² | |
| | | | |  |  |  |  |  |  | | |  |  | |  |
| Male | Female | Male | Female | Male | Female | Male | Female | Male | Female | Male | Female | Male | Female | Male | Female |
| 3 Pins | | 4 Pins | | | | | | | | | | | | | |
| 185 | 185 | 161 | 161 | 173 | 173 | 185 | 185 | 205 | 205 | 196 | 196 | 201 | 201 | - | - |
| 186 | 186 | 162 | 162 | 174 | 174 | 186 | 186 | 206 | 206 | 197 | 197 | 202 | 202 | - | - |
| 187 | 187 | 163 | 163 | 175 | 175 | 187 | 187 | 207 | 207 | 198 | 198 | - | - | - | - |
| 188 | 188 | 164 | 164 | 176 | 176 | 188 | 188 | 208 | 208 | 199 | 199 | - | - | - | - |
| 189 | 189 | 165 | 165 | 177 | 177 | 189 | 189 | 209 | 209 | 200 | 200 | - | - | - | - |
| 190 | 190 | 166 | 166 | 178 | 178 | 190 | 190 | 210 | 210 | - | - | - | - | - | - |
| 191 | - | 167 | - | 179 | - | 191 | - | 211 | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 193 | 193 | 170 | 170 | 180 | 180 | 193 | 193 | 212 | 212 | - | - | - | - | - | - |
| 194 | 194 | 171 | 171 | 181 | 181 | 194 | 194 | 213 | 213 | - | - | - | - | - | - |
| - | - | 172 | 172 | 182 | 182 | - | - | 214 | 214 | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | 183 | 183 |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 184 |
| 192 | 192 | - | - | - | - | 192 | 192 | - | - | - | - | - | - | - | - |
| 3 Pins | | 4 Pins | | | | | | | | | | | | | |
| 254 | 254 | 226 | 226 | 240 | 240 | 254 | 254 | 264 | 264 | - | - | - | - | - | - |
| 255 | 255 | 227 | 227 | 241 | 241 | 255 | 255 | 265 | 265 | - | - | - | - | - | - |
| - | - | 228 | 228 | 242 | 242 | - | - | 266 | 266 | - | - | - | - | - | - |
| - | - | 229 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | 230 | 230 | 243 | 243 | - | - | 267 | 267 | - | - | - | - | - | - |
| - | - | 231 | 231 | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | 232 | 232 | 244 | 244 | - | - | 270 | 270 | - | - | - | - | - | - |
| - | - | 233 | 233 | 245 | 245 | - | - | 271 | 271 | 256 | 256 | 258 | 258 | - | - |
| - | - | 234 | 234 | 246 | 246 | - | - | 272 | 272 | - | - | - | - | - | - |
| - | - | 235 | 235 | 247 | 247 | - | - | 273 | 273 | - | - | - | - | - | - |
| - | - | 236 | 236 | 248 | 248 | - | - | 274 | 274 | - | - | - | - | - | - |
| - | - | 237 | 237 | 249 | 249 | - | - | 275 | 275 | 257 | 257 | 259 | 259 | - | - |
| - | - | 238 | 238 | 250 | 250 | - | - | 276 | 276 | - | - | - | - | - | - |
| - | - | 239 | 239 | 251 | 251 | - | - | 277 | 277 | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | 252 | 252 |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 253 |
| - | - | - | - | - | - | - | - | 268 | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | 269 | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 3 Pins | | 4 Pins | | | | | | | | | | | | | |
| 324 | 324 | 279 | 279 | 302 | 302 | 324 | 324 | 354 | 354 | - | - | - | - | - | - |
| 325 | 325 | 280 | 280 | 303 | 303 | 325 | 325 | 355 | 355 | - | - | - | - | - | - |
| 326 | 326 | 281 | 281 | 304 | 304 | 326 | 326 | 356 | 356 | - | - | - | - | - | - |
| 327 | 327 | 282 | 282 | 305 | 305 | 327 | 327 | 357 | 357 | - | - | - | - | - | - |
| - | - | 283 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 328 | 328 | 284 | 284 | 306 | 306 | 328 | 328 | 358 | 358 | - | - | - | - | - | - |
| 329 | 329 | 285 | 285 | 307 | 307 | 329 | 329 | 359 | 359 | - | - | - | - | - | - |
| - | 330 | - | 286 | - | 308 | - | 330 | - | 360 | - | - | - | - | - | - |
| - | - | - | 287 | - | - | - | - | - | - | - | - | - | - | - | - |
| 331 | 331 | 288 | 288 | 309 | 309 | 331 | 331 | 361 | 361 | - | - | - | - | - | - |
| 332 | 332 | 289 | 289 | 310 | 310 | 332 | 332 | 362 | 362 | - | - | - | - | - | - |
| 333 | 333 | 290/295 | 290/295 | 311 | 311 | 333 | 333 | 363 | 363 | - | - | - | - | - | - |
| 334 | 334 | 291 | 291 | 312 | 312 | 334 | 334 | 364 | 364 | - | - | - | - | - | - |
| 335 | 335 | 292 | 292 | 313 | 313 | 335 | 335 | 365 | 365 | - | - | - | - | - | - |
| 336/337 | 336/337 | 293/294 | 293 | 314/315 | 314/315 | 336/337 | 336/337 | 366/367 | 366/367 | - | - | - | - | - | - |
| 338/339 | 338/339 | 296/297 | 296/297 | 316/318 | 316/318 | 338/339 | 338/339 | 368/369 | 368/369 | - | - | - | - | - | - |

| A-coding | | B-coding | | C-coding | | K-coding | | L-coding | | C-coding | | M-coding | | Y1-coding | | Y3-coding |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4A | | | | 2A | | 12A | | 16A | | 2A | | 8A | | 10A (Power),0.5A(Signal) | | |
| 60V | | | | 60V | | 630V(A/C), NC(D/C) | | NC(A/C), 63V(D/C) | | 30V | | 630V A/C NC D/C | | 50V | | |
| 22AWG / 0.34mm² | | | | 24AWG / 0.25mm² | | 14AWG / 2.0mm² | | 24AWG / 0.25mm² | | 24AWG / 0.25mm² | | 16AWG / 1.5mm² | | 16/26AWG, 1.25/0.15mm² | | |
| | | | | |  | |  | |  | |  | |  | |  |  |
| Male | Female | Male | Female | Male | Female | Male | Female | Male | Female | Male | Female | Male | Female | Male | Female | Male |
| 5 Pins | | | | | | | | | | 6 Pins | | | | | | |
| 161 | 161 | 173 | 173 | 185 | 185 | - | - | - | - | 185 | 185 | - | - | - | - | - |
| 162 | 162 | 174 | 174 | 186 | 186 | 203 | 203 | 204 | 204 | 186 | 186 | 195 | 195 | 218 | 218 | 222 |
| 163 | 163 | 175 | 175 | 187 | 187 | - | - | - | - | 187 | 187 | - | - | - | - | - |
| 164 | 164 | 176 | 176 | 188 | 188 | - | - | - | - | 188 | 188 | - | - | - | - | - |
| 165 | 165 | 177 | 177 | 189 | 189 | - | - | - | - | 189 | 189 | - | - | 219 | 219 | 223 |
| 166 | 166 | 178 | 178 | 190 | 190 | - | - | - | - | 190 | 190 | - | - | - | - | - |
| 167 | - | 179 | - | 191 | - | - | - | - | - | 191 | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 170 | 170 | 180 | 180 | 193 | 193 | - | - | - | - | 193 | 193 | - | - | - | - | - |
| 171 | 171 | 181 | 181 | 194 | 194 | - | - | - | - | 194 | 194 | - | - | - | - | - |
| 172 | 172 | 182 | 182 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | 192 | 192 | - | - | - | - | 192 | 192 | - | - | - | - | - |
| 5 Pins | | | | | | | | | | 6 Pins | | | | | | |
| 226 | 226 | 240 | 240 | 254 | 254 | - | - | - | - | 254 | 254 | - | - | - | - | - |
| 227 | 227 | 241 | 241 | 255 | 255 | - | - | - | - | 255 | 255 | - | - | - | - | - |
| 228 | 228 | 242 | 242 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 229 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 230 | 230 | 243 | 243 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 231 | 231 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 232 | 232 | 244 | 244 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 233 | 233 | 245 | 245 | - | - | 260 | 260 | 262 | 262 | - | - | - | - | - | - | - |
| 234 | 234 | 246 | 246 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 236 | 236 | 248 | 248 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 237 | 237 | 249 | 249 | - | - | 261 | 261 | 263 | 263 | - | - | - | - | - | - | - |
| 238 | 238 | 250 | 250 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 239 | 239 | 251 | 251 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 5 Pins | | | | | | | | | | 6 Pins | | | | | | |
| 279 | 279 | 302 | 302 | 324 | 324 | - | - | - | - | 324 | 324 | - | - | - | - | - |
| 280 | 280 | 303 | 303 | 325 | 325 | - | - | - | - | 325 | 325 | - | - | - | - | - |
| 281 | 281 | 304 | 304 | 326 | 326 | - | - | - | - | 326 | 326 | - | - | - | - | - |
| 282 | 282 | 305 | 305 | 327 | 327 | - | - | - | - | 327 | 327 | - | - | - | - | - |
| 283 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 284 | 284 | 306 | 306 | 328 | 328 | - | - | - | - | 328 | 328 | - | - | - | - | - |
| 285 | 285 | 307 | 307 | 329 | 329 | - | - | - | - | 329 | 329 | - | - | - | - | - |
| - | 286 | - | 308 | - | 330 | - | - | - | - | - | 330 | - | - | - | - | - |
| - | 287 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 288 | 288 | 309 | 309 | 331 | 331 | - | - | - | - | 331 | 331 | - | - | - | - | - |
| 289 | 289 | 310 | 310 | 332 | 332 | - | - | - | - | 332 | 332 | - | - | - | - | - |
| 290/295 | 290/295 | 311 | 311 | 333 | 333 | - | - | - | - | 333 | 333 | - | - | - | - | - |
| 291 | 291 | 312 | 312 | 334 | 334 | - | - | - | - | 334 | 334 | - | - | - | - | - |
| 292 | 292 | 313 | 313 | 335 | 335 | - | - | - | - | 335 | 335 | - | - | - | - | - |
| 293/294 | 293 | 314/315 | 314/315 | 336/337 | 336/337 | - | - | - | - | 336/337 | 336/337 | - | - | - | - | - |
| 296/297 | 296/297 | 316/318 | 316/318 | 338/339 | 338/339 | - | - | - | - | 338/339 | 338/339 | - | - | – | - | - |

# M12 Quick Search Table

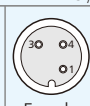
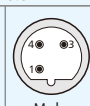
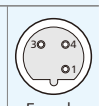
M12 cables & connectors

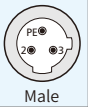
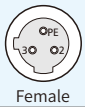
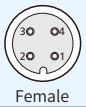
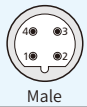
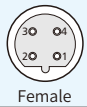
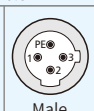
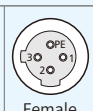
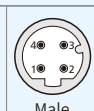
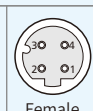
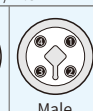
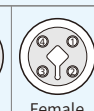
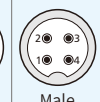
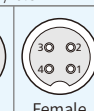
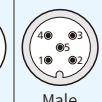
| Y3-coding | Quick-lock | | A-coding | | X-coding | | Y2-coding | | Y4-coding | | A-coding | | A-coding | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10A (Power),0.5A(Signal) | 4A | | 2A | | 0.5A | | 6A (Power),0.5A(Signal) | | | | 1.5A | | 1.5A | |
| 50V | 60V | | 30V | | 50V / 60V | | 50V | | | | 30V | | 30V | |
| 16/26AWG, 1.25/0.15mm² | 22AWG / 0.34mm² | | 24AWG / 0.25mm² | | 27~24AWG / 0.14~0.25mm² | | 20/26AWG, 0.6/0.15mm² | | | | 26AWG / 0.14mm² | | 26AWG / 0.14mm² | |
| | | | | | | | | | | | | | | |
| Female | Male | Female | Male | Female | Male | Female | Male | Female | Male | Female | Male | Female | Male | Female |
| | | | 8 Pins | | | | | | | | 12 Pins | | 17 Pins | |
| - | - | - | 161 | 161 | - | - | - | - | - | - | 161 | 161 | 161 | 161 |
| 222 | - | - | 162 | 162 | 215 | 215/216 | 220 | 220 | 224 | 224 | 162 | 162 | 162 | 162 |
| - | - | - | 163 | 163 | - | - | - | - | - | - | 163 | 163 | 163 | 163 |
| - | - | - | 164 | 164 | - | - | - | - | - | - | 164 | 164 | 164 | 164 |
| 223 | - | - | 165 | 165 | 217 | 217 | 221 | 221 | 225 | 225 | 165 | 165 | 165 | 165 |
| - | - | - | 166 | 166 | - | - | - | - | - | - | 166 | 166 | 166 | 166 |
| - | - | - | 167 | - | - | - | - | - | - | - | 167 | - | 167 | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | 170 | 170 | - | - | - | - | - | - | - | - | - | - |
| - | - | - | 171 | 171 | - | - | - | - | - | - | - | - | - | - |
| - | - | - | 172 | 172 | - | - | - | - | - | - | - | - | - | - |
| - | 183 | 183 | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | 184 | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | | 8 Pins | | | | | | | | 12 Pins | | 17 Pins | |
| - | - | - | 226 | 226 | - | - | - | - | - | - | 226 | 226 | - | - |
| - | - | - | 227 | 227 | - | - | - | - | - | - | - | - | - | - |
| - | - | - | 228 | 228 | - | - | - | - | - | - | - | - | - | - |
| - | - | - | 229 | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | 230 | 230 | - | - | - | - | - | - | - | - | - | - |
| - | - | - | 231 | 231 | - | - | - | - | - | - | - | - | - | - |
| - | - | - | 232 | 232 | - | - | - | - | - | - | - | - | - | - |
| - | - | - | 233 | 233 | - | - | - | - | - | - | - | - | - | - |
| - | - | - | 234 | 234 | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | 236 | 236 | - | - | - | - | - | - | - | - | - | - |
| - | - | - | 237 | 237 | - | - | - | - | - | - | - | - | - | - |
| - | - | - | 238 | 238 | - | - | - | - | - | - | - | - | - | - |
| - | - | - | 239 | 239 | - | - | - | - | - | - | - | - | - | - |
| - | 252 | 252 | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | 253 | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | 278 | - | - | - | - | - | - | - | - | - |
| | | | 8 Pins | | | | | | | | 12 Pins | | 17 Pins | |
| - | - | - | 279 | 279 | - | - | - | - | - | - | - | - | - | - |
| - | - | - | 280 | 280 | - | - | - | - | - | - | - | - | - | - |
| - | - | - | 281 | 281 | - | - | - | - | - | - | - | - | - | - |
| - | - | - | 282 | 282 | - | - | - | - | - | - | 282 | 282 | 282 | 282 |
| - | - | - | 283 | - | - | - | - | - | - | - | 283 | - | 283 | - |
| - | - | - | 284 | 284 | - | - | - | - | - | - | 284 | 284 | 284 | 284 |
| - | - | - | 285 | 285 | - | - | - | - | - | - | 285 | 285 | 285 | 285 |
| - | - | - | - | 286 | - | - | - | - | - | - | - | 286 | - | 286 |
| - | - | - | - | 287 | - | - | - | - | - | - | - | 287 | - | 287 |
| - | - | - | 288 | 288 | - | - | - | - | - | - | 288 | 288 | 288 | 288 |
| - | - | - | 289 | 289 | - | - | - | - | - | - | - | - | - | - |
| - | - | - | 290/295 | 290/295 | - | - | - | - | - | - | - | - | - | - |
| - | - | - | 291 | 291 | - | - | - | - | - | - | - | - | - | - |
| - | - | - | 292 | 292 | - | - | - | - | - | - | - | - | - | - |
| - | - | - | 293/294 | 293 | - | - | - | - | - | - | 293/294 | 293 | 293/294 | 293 |
| - | - | - | 296/297 | 296/297 | - | - | - | - | - | - | 296/297 | 296/297 | 296/297 | 296/297 |

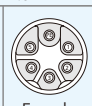
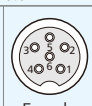
# M12 Quick Search Table

M12 cables & connectors

**M12**
**Quick Search Table**

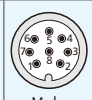
| | Available Coding | A-coding | | B-coding | |
|---|---|---|---|---|---|
| | Rated Current | 4A | | | |
| | Voltage | 250V | | | |
| | Wire Gauge / size | 22AWG / 0.34mm² | | | |
| | Pin layout | Male |  Female |  Male |  Female |
| **Panel Mount Type** | | | | | 3 Pins |
| | Straight Connector, Panel Mount, PCB Type, Front Fastened, With Double Earth Pin | 298 | 298 | 319 | 319 |
| | Straight Connector, Panel Mount, PCB Type, Front fastened, shielded | - | - | 317 | 317 |
| | Angled Connector, Panel Mount, PCB Type, Front fastened | - | - | - | - |
| | Straight Connector, Panel Mount, Push-Pull With Steel Ball, PCB, Front fastened, Shielded | - | - | - | - |
| | Straight Connector, Plastic Housing with O-ring | 301 | - | 321 | - |
| | Quick-lock Type Panel Mount, Solder, Front fastened | - | - | - | - |
| | Quick-lock Type Panel Mount, PCB Type, Front fastened | - | - | - | - |
| | Straight Connector, Panel, Solder & Crimp, Front fastened | - | - | - | - |
| | Straight Connector, Panel, Solder & Crimp, Rear fastened | - | - | - | - |
| | Straight Connector, Panel, PCB Type, Front fastened | - | - | - | - |
| | Straight Connector, Panel, PCB Type, Rear fastened | - | - | - | - |
| | Angled Connector, Panel Mount, PCB Type, Shielded Shell | - | - | - | - |
| | Straight Connector, Panel Mount, PCB Type , Front Fastended | - | - | - | - |
| | Straight Connector, Panel Mount, Push-Pull Type, Front Fastened | - | - | - | - |
| | Straight Connector, Panel Mount, Push-Pull Type, Front Fastened, With Steel Ball | - | - | - | - |
| | Straight Connector, Panel Mount, PCB Type, Front Fastened, With Earth Pin | - | - | - | - |
| | Straight Connector, Panel Mount, PCB Type, Rear Fastened, With Earth Pin | - | - | - | - |
| | Straight Connector, Panel Mount, PCB Type, Without Screw, With Earth Pin | - | - | - | - |
| | Angled Connector, Panel Mount, PCB Type, fastened, With Earth Pin | - | - | - | - |
| | Panel Mount, Crimp, Front fastened, With Earth Pin | - | - | - | - |
| | Straight Connector, Panel, Front Mount, Shielded | - | - | - | - |
| | Straight Connector, Panel Mount, PCB, Front fastened, With Earth Pin | - | - | - | - |
| | Straight Connector, Panel Mount, PCB, Rear fastened, With Earth Pin | - | - | - | - |
| | Male-Female Panel Mount | - | - | - | - |
| | Male-Female Panel Mount, Shielded | - | - | - | - |
| | Female-Female Panel Mount, Shielded | - | - | - | - |
| **Adapter & Splitter** | | | | | 3 Pins |
| | I-Adapter, Male-Male | 399 | - | 399 | - |
| | I-Adapter, Male-Female | 400 | 400 | 400 | 400 |
| | L-Adapter, Male-Female | 401 | 401 | 401 | 401 |
| | Y-Splitter | 402 | 402 | 402 | 402 |
| | T-Splitter, Female-Male-Female | 403 | 403 | 403 | 403 |
| | T-Splitter, Female-Male-Female, Shielded | 404 | 404 | 404 | 404 |
| | T-Splitter, with Molded Cable | 405 | 405 | 405 | 405 |
| | T-Splitte, Plastic with Molded Cable | 406 | 406 | 406 | 406 |
| | T-Splitte, Male-Female, Molded Cable | 407 | 407 | 407 | 407 |
| | Multi-Way 4T-Splitter, Male-3*Female | 408 | 408 | 408 | 408 |
| | Multi-Way 6T-Splitter, Male-5*Female | 409 | 409 | 409 | 409 |
| | Terminator | 410 | 410 | 410 | 410 |
| | Plastic Terminator | 411 | 411 | 411 | 411 |
| **Protection Cap** | | | | | |
| | Protection Cap for Male Connector | 412 | | | |
| | Protection Cap for Female Connector | 412 | | | |
| | Protection Cap for Male Connector | 412 | | | |
| | Protection Cap for Male Molded Cable Connector | 413 | | | |
| | Protection Cap for Female Molded Cable Connector | 413 | | | |
| | Protection Cap for Male Panel-mount Connector | 413 | | | |
| | Protection Cap for Female Panel-mount Connector | 414 | | | |

| C-coding | | A-coding | | B-coding | | C-coding | | D-coding | | S-coding | | T-coding | | Quick-lock | | A-coding |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4A | | 4A | | | | | | | | 12A(40°C) | | | | 4A | | 4A |
| 250V | | 250V | | | | | | | | 630V | | 63V | | 250V | | 60V |
| 22AWG / 0.34mm² | | 22AWG / 0.34mm² | | | | | | | | 16AWG / 1.5mm² | | | | 22AWG / 0.34mm² | | 22AWG / 0.34mm² |
|  |  | |  |  |  |  |  |  |  | | |  |  |  |  |  |
| Male | Female | Male | Female | Male | Female | Male | Female | Male | Female | Male | Female | Male | Female | Male | Female | Male |
| 4 Pins | | | | | | | | | | | | | | | | |
| 340 | 340 | 298 | 298 | 319 | 319 | 340 | 340 | 370 | 370 | - | - | - | - | - | - | 298 |
| - | - | - | - | 317 | 317 | - | - | - | - | - | - | - | - | - | - | - |
| - | - | 299 | 299 | 320 | 320 | - | - | 371 | 371 | - | - | 345 | 345 | - | - | 299 |
| - | - | - | 300 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | 301 | - | 321 | - | - | - | 376 | - | - | - | - | - | - | - | 301 |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | 322 | 322 | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | 323 | 323 | - |
| - | - | - | - | - | - | - | - | - | - | 343 | 343 | 344 | 344 | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | 372 | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | 373 | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | 374 | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | 375 | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | 394/395 | 394/395 | - | - | - | - | - | - | - | - | - | - | - | - | 394/395 |
| - | - | 396 | 396 | - | - | - | - | - | - | - | - | - | - | - | - | 396 |
| - | - | - | 398 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 4 Pins | | | | | | | | | | | | | | | | |
| 399 | - | 399 | - | 399 | - | - | - | - | - | - | - | - | - | - | - | 399 |
| - | - | 400 | 400 | 400 | 400 | - | - | - | - | - | - | - | - | - | - | 400 |
| - | - | 401 | 401 | 401 | 401 | - | - | - | - | - | - | - | - | - | - | 401 |
| - | - | 402 | 402 | 402 | 402 | - | - | - | - | - | - | - | - | - | - | 402 |
| - | - | 403 | 403 | 403 | 403 | - | - | - | - | - | - | - | - | - | - | 403 |
| - | - | 404 | 404 | 404 | 404 | - | - | - | - | - | - | - | - | - | - | 404 |
| - | - | 405 | 405 | 405 | 405 | - | - | - | - | - | - | - | - | - | - | 405 |
| - | - | 406 | 406 | 406 | 406 | - | - | - | - | - | - | - | - | - | - | 406 |
| - | - | 407 | 407 | 407 | 407 | - | - | - | - | - | - | - | - | - | - | 407 |
| - | - | 408 | 408 | 408 | 408 | - | - | 408 | 408 | - | - | - | - | - | - | 408 |
| - | - | 409 | 409 | 409 | 409 | - | - | 409 | 409 | - | - | - | - | - | - | 409 |
| 410 | 410 | 410 | 410 | 410 | 410 | 410 | 410 | 410 | 410 | - | - | - | - | - | - | 410 |
| 411 | 411 | 411 | 411 | 411 | 411 | 411 | 411 | 411 | 411 | - | - | - | - | - | - | 411 |

| A-coding | B-coding | | C-coding | | K-coding | | L-coding | | C-coding | | M-coding | | Quick-lock | | Y1-coding |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4A | | | 2A | | 12A | | 16A | | 2A | | 8A | | 4A | | 12A (Power),0.5A(Signal) |
| 60V | | | 60V | | 630V(A/C), NC(D/C) | | NC(A/C), 63V(D/C) | | 30V | | 630V A/C NC D/C | | 60V | | 50V |
| 22AWG / 0.34mm² | | | 24AWG / 0.25mm² | | 14AWG / 2.0mm² | | 24AWG / 0.25mm² | | 24AWG / 0.25mm² | | 16AWG / 1.5mm² | | 22AWG / 0.34mm² | | 16/26AWG, 1.25/0.15mm² |
| | | | | | | | | | | | |  | |  | |
| Female | Male | Female | Male | Female | Male | Female | Male | Female | Male | Female | Male | Female | Male | Female | Male |
| 5 Pins | | | | | 6 Pins | | | | | | | | | | |
| 298 | 319 | 319 | 340 | 340 | - | - | - | - | 340 | 340 | - | - | – | - | - |
| - | 317 | 317 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 299 | 320 | 320 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 300 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | 321 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | 322 | 322 | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | 323 | 323 | - |
| - | - | - | - | - | 346 | 346 | 350 | 350 | - | - | 341 | 341 | - | - | - |
| - | - | - | - | - | 347 | 347 | 351 | 351 | - | - | 342 | 342 | - | - | - |
| - | - | - | - | - | 348 | 348 | 352 | 352 | - | - | - | - | - | - | - |
| - | - | - | - | - | 349 | 349 | 353 | 353 | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 382 |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 383 |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 384 |
| 394/395 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 396 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 398 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 5 Pins | | | | | 6 Pins | | | | | | | | | | |
| - | 399 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 400 | 400 | 400 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 401 | 401 | 401 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 402 | 402 | 402 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 403 | 403 | 403 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 404 | 404 | 404 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 405 | 405 | 405 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 406 | 406 | 406 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 407 | 407 | 407 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 408 | 408 | 408 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 409 | 409 | 409 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 410 | 410 | 410 | 410 | 410 | - | - | - | - | 410 | 410 | - | - | - | - | - |
| 411 | 411 | 411 | 411 | 411 | - | - | - | - | 411 | 411 | - | - | - | - | - |

# M12 Quick Search Table

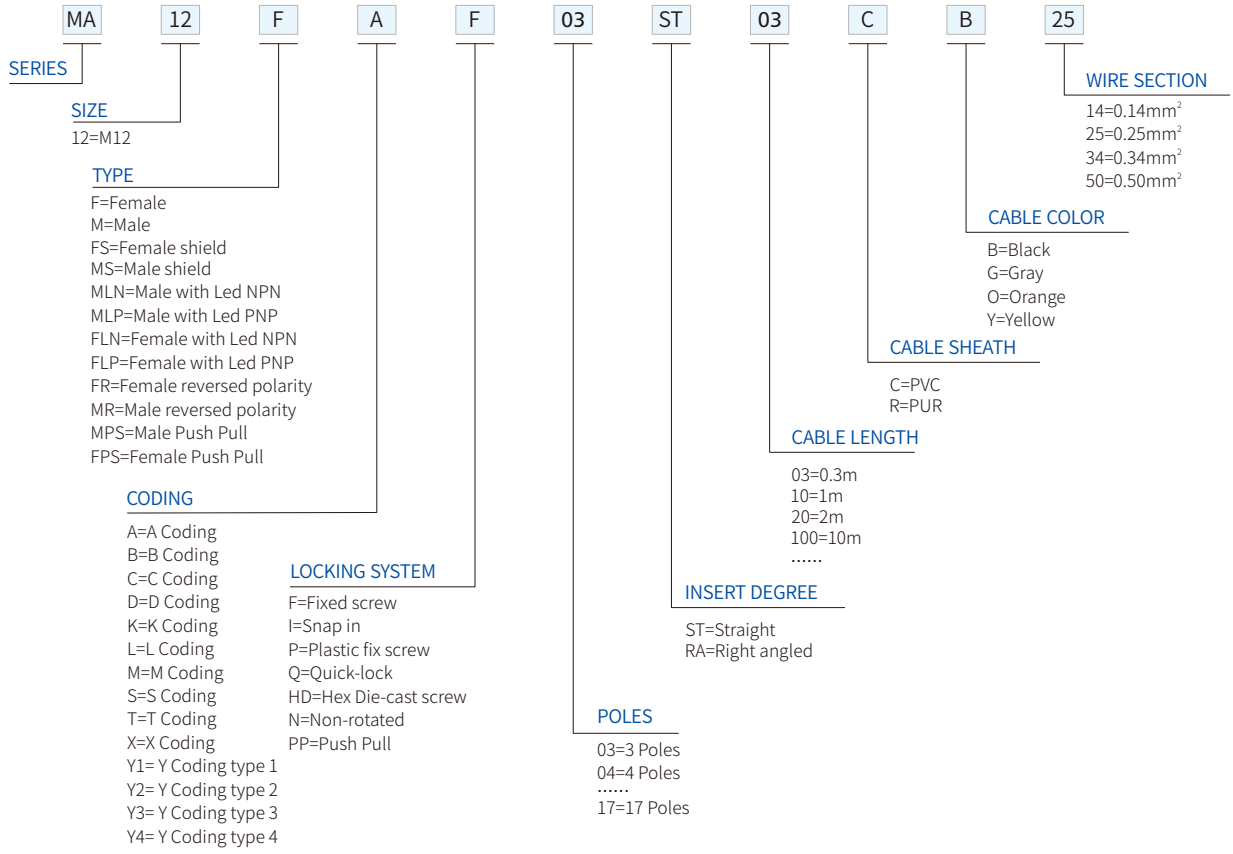
M12 cables & connectors

| Y1-coding | Y3-coding | | A-coding | | X-coding | | Y2-coding | | Y4-coding | | A-coding | | A-coding | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12A (Power),0.5A(Signal) | | | 2A | | 0.5A | | 6A (Power),0.5A(Signal) | | | | 1.5A | | 1.5A | |
| 50V | | | 30V | | 50V / 60V | | 50V | | | | 30V | | 30V | |
| 16/26AWG, 1.25/0.15mm² | | | 24AWG / 0.25mm² | | 27~24AWG / 0.14~0.25mm² | | 20/26AWG, 0.6/0.15mm² | | | | 26AWG / 0.14mm² | | 26AWG / 0.14mm² | |
| | | |  | | | | | | | | | | | |
| Female | Male | Female | Male | Female | Male | Female | Male | Female | Male | Female | Male | Female | Male | Female |
| 6 Pins | | | 8 Pins | | | | | | | | 12 Pins | | 17 Pins | |
| - | - | - | 298 | 298 | - | - | - | - | - | - | 298 | 298 | 298 | 298 |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | 299 | 299 | - | - | - | - | - | - | 299 | 299 | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | 301 | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | 377 | 377 | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | 378 | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | 379 | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | 380 | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | 381 | - | - | - | - | - | - | - | - |
| 382 | 388 | 388 | - | - | - | - | 385 | 385 | 391 | 391 | - | - | - | - |
| 383 | 389 | 389 | - | - | - | - | 386 | 386 | 392 | 392 | - | - | - | - |
| 384 | 390 | 390 | - | - | - | - | 387 | 387 | 393 | 393 | - | - | - | - |
| - | - | - | 395 | 395 | - | - | - | - | - | - | 395 | 395 | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | 397 | - | - | - | - | - | - | - | - |
| 6 Pins | | | 8 Pins | | | | | | | | 12 Pins | | 17 Pins | |
| - | - | - | 399 | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | 400 | 400 | - | - | - | - | - | - | - | - | - | - |
| - | - | - | 401 | 401 | - | - | - | - | - | - | - | - | - | - |
| - | - | - | 402 | 402 | - | - | - | - | - | - | - | - | - | - |
| - | - | - | 403 | 403 | - | - | - | - | - | - | - | - | - | - |
| - | - | - | 404 | 404 | - | - | - | - | - | - | - | - | - | - |
| - | - | - | 405 | 405 | - | - | - | - | - | - | - | - | - | - |
| - | - | - | 406 | 406 | - | - | - | - | - | - | - | - | - | - |
| - | - | - | 407 | 407 | - | - | - | - | - | - | - | - | - | - |
| - | - | - | 408 | 408 | - | - | - | - | - | - | - | - | - | - |
| - | - | - | 409 | 409 | - | - | - | - | - | - | - | - | - | - |
| - | - | - | 410 | 410 | - | - | - | - | - | - | 410 | 410 | 410 | 410 |
| - | - | - | 411 | 411 | - | - | - | - | - | - | 411 | 411 | 411 | 411 |

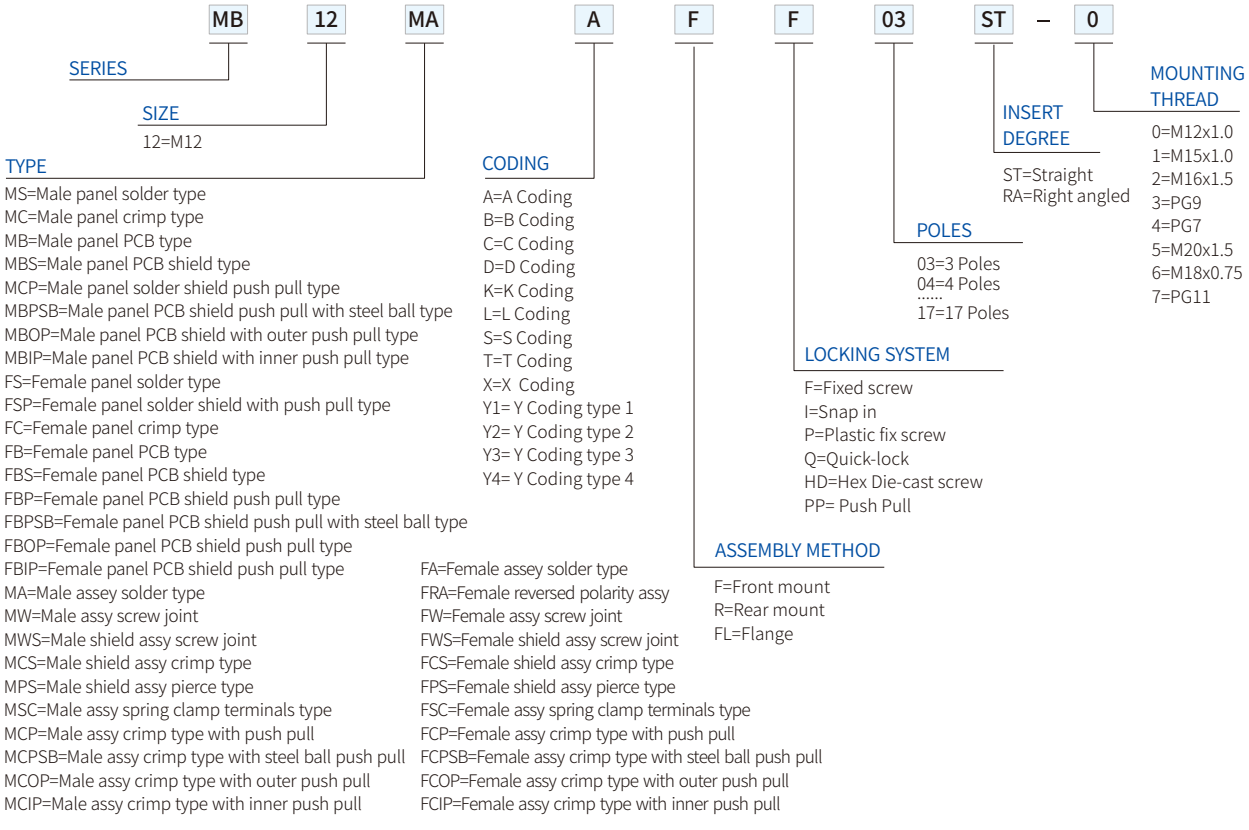
# M12 A-coding (Sensor and Actuator)

## How to Order Part Number

### ■ M12 Series with cable molded



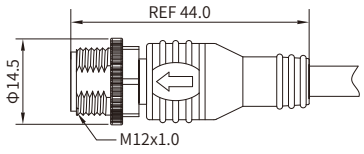

### ■ M12 Series Assembly / Panel-mount type



# M12 A-coding (Sensor and Actuator)

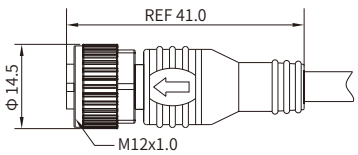
## M12 A-coding Straight Connector, Molded Cable

Male




CE RoHS

Female




CE RoHS

## Specifications

| Contacts | 3 | 4 | 5 | 8 | 12 | 17 |
|---|---|---|---|---|---|---|
| Certification | cULus LISTED CYJV/CYJV7. E321413 | | cULus CYJV2(CYJV8).E321413 | | cULus LISTED CYJV(CYJV7).E321413 | |
| Pin layout(Male) | | | | | | |
| Pin layout(Female) | | | | | | |
| Standard | IEC 61076-2-101 | | | | | |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | | | | | |
| Connector insert | TPU | | | | | |
| Connector contacts | Brass with gold plated | | | | | |
| Connector overmold | TPU | | | | | |
| Coupling nut/screw | Zinc alloy with nickel plated | | | | | |
| Seal/O-ring(of Female) | FKM | | | | | |
| Insulation resistance | ⩾100MΩ | | | | | |
| Contact resistance | ⩽5mΩ | | | | | |
| Shielding | Unavailable | | | | | |
| IP rating | IP67, IP68, IP69K in locked condition | | | | | |
| Mating endurance | >500 cycles | | | | | |
| Rated current | 4 A | | | 2A | 1.5A | |
| Rated voltage | 250V AC/DC | | 60V AC/DC | 30V AC/DC | 30V AC/DC | |
| Wire gauge | 0.34mm²(AWG22) | | | 0.25mm²( AWG24) | 0.14mm²(AWG26) | |

## Part Number

*17 pin with different overmold from above other pins.

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 3 | 1m | MA12MAHD03ST10CB34 | MA12MAHD03ST10RB34 | MA12FAHD03ST10CB34 | MA12FAHD03ST10RB34 |
| | 3m | MA12MAHD03ST30CB34 | MA12MAHD03ST30RB34 | MA12FAHD03ST30CB34 | MA12FAHD03ST30RB34 |
| | 5m | MA12MAHD03ST50CB34 | MA12MAHD03ST50RB34 | MA12FAHD03ST50CB34 | MA12FAHD03ST50RB34 |
| 4 | 1m | MA12MAHD04ST10CB34 | MA12MAHD04ST10RB34 | MA12FAHD04ST10CB34 | MA12FAHD04ST10RB34 |
| | 3m | MA12MAHD04ST30CB34 | MA12MAHD04ST30RB34 | MA12FAHD04ST30CB34 | MA12FAHD04ST30RB34 |
| | 5m | MA12MAHD04ST50CB34 | MA12MAHD04ST50RB34 | MA12FAHD04ST50CB34 | MA12FAHD04ST50RB34 |
| 5 | 1m | MA12MAHD05ST10CB34 | MA12MAHD05ST10RB34 | MA12FAHD05ST10CB34 | MA12FAHD05ST10RB34 |
| | 3m | MA12MAHD05ST30CB34 | MA12MAHD05ST30RB34 | MA12FAHD05ST30CB34 | MA12FAHD05ST30RB34 |
| | 5m | MA12MAHD05ST50CB34 | MA12MAHD05ST50RB34 | MA12FAHD05ST50CB34 | MA12FAHD05ST50RB34 |
| 8 | 1m | MA12MAHD08ST10CB25 | MA12MAHD08ST10RB25 | MA12FAHD08ST10CB25 | MA12FAHD08ST10RB25 |
| | 3m | MA12MAHD08ST30CB25 | MA12MAHD08ST30RB25 | MA12FAHD08ST30CB25 | MA12FAHD08ST30RB25 |
| | 5m | MA12MAHD08ST50CB25 | MA12MAHD08ST50RB25 | MA12FAHD08ST50CB25 | MA12FAHD08ST50RB25 |
| 12 | 1m | MA12MAHD12ST10CB14 | MA12MAHD12ST10RB14 | MA12FAHD12ST10CB14 | MA12FAHD12ST10RB14 |
| | 3m | MA12MAHD12ST30CB14 | MA12MAHD12ST30RB14 | MA12FAHD12ST30CB14 | MA12FAHD12ST30RB14 |
| | 5m | MA12MAHD12ST50CB14 | MA12MAHD12ST50RB14 | MA12FAHD12ST50CB14 | MA12FAHD12ST50RB14 |
| 17 | 1m | MA12MAF17ST10CB14 | MA12MAF17ST10RB14 | MA12FAF17ST10CB14 | MA12FAF17ST10RB14 |
| | 3m | MA12MAF17ST30CB14 | MA12MAF17ST30RB14 | MA12FAF17ST30CB14 | MA12FAF17ST30RB14 |
| | 5m | MA12MAF17ST50CB14 | MA12MAF17ST50RB14 | MA12FAF17ST50CB14 | MA12FAF17ST50RB14 |

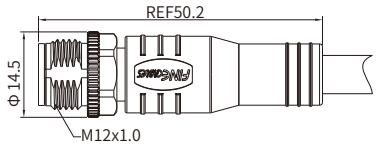
## Default wire colors

| Pin No. | | | | | | |
|---|---|---|---|---|---|---|
| Pin 1 | BN | BN | BN | WH | WH | BN 13. WH/GN |
| Pin 2 | | WH | WH | BN | BN | BU 14. BN/GN |
| Pin 3 | BU | BU | BU | GN | GN | WH 15. WH/YE |
| Pin 4 | BK | BK | BK | YE | YE | GN 16. YE/BN |
| Pin 5 | | | GY | GY | GY | PK 17. WH/GY |
| Pin 6 | | | | PK | PK | YE |
| Pin 7 | | | | BU | BU | BK |
| Pin 8 | | | | RD | RD | GY |
| Pin 9 | | | | | OR | RD |
| Pin 10 | | | | | TP | VT |
| Pin 11 | | | | | BK | GY/PK |
| Pin 12 | | | | | VT | RD/BU |

# M12 A-coding (Sensor and Actuator)

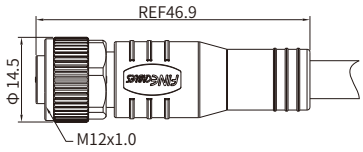
## M12 A-coding Straight Connector, Molded Cable, Shielded

Male




CE RoHS

Female




CE RoHS

## Specifications

| Contacts | 3 | 4 | 5 | 8 | 12 | 17 |
|---|---|---|---|---|---|---|
| Certification | cULus LISTED CYJV/CYJV7. E321413 | | cULus CYJV2(CYJV8).E321413 | | cULus LISTED CYJV(CYJV7).E321413 | |
| Pin layout(Male) | | | | | | |
| Pin layout(Female) | | | | | | |
| Standard | IEC 61076-2-101 | | | | | |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | | | | | |
| Connector insert | TPU+GF | | | | | |
| Connector contacts | Brass with gold plated | | | | | |
| Connector overmold | TPU | | | | | |
| Coupling nut/screw | Zinc alloy with nickel plated (12pin,17pin brass with nickel plated) | | | | | |
| Seal/O-ring(of Female) | FKM | | | | | |
| Insulation resistance | ⩾100MΩ | | | | | |
| Contact resistance | ⩽5mΩ | | | | | |
| Shielding | Available | | | | | |
| IP rating | IP67, IP68, IP69K in locked condition | | | | | |
| Mating endurance | >500 cycles | | | | | |
| Rated current | 4 A | | | 2A | 1.5A | |
| Rated voltage | 250V AC/DC | | 60V AC/DC | 30V AC/DC | 30V AC/DC | |
| Wire gauge | 0.34mm²(AWG22) | | | 0.25mm²( AWG24) | 0.14mm²(AWG26) | |

## Part Number

*12 pin 17 pin with different overmold from above other pins.

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 3 | 1m | MA12MSAHD03ST10CB34 | MA12MSAHD03ST-10RB34 | MA12FSAHD03ST-10CB34 | MA12FSAHD03ST-10RB34 |
| | 3m | MA12MSAHD03ST30CB34 | MA12MSAHD03ST-30RB34 | MA12FSAHD03ST-30CB34 | MA12FSAHD03ST-30RB34 |
| | 5m | MA12MSAHD03ST50CB34 | MA12MSAHD03ST-50RB34 | MA12FSAHD03ST-50CB34 | MA12FSAHD03ST-50RB34 |
| 4 | 1m | MA12MSAHD04ST10CB34 | MA12MSAHD04ST-10RB34 | MA12FSAHD04ST-10CB34 | MA12FSAHD04ST-10RB34 |
| | 3m | MA12MSAHD04ST30CB34 | MA12MSAHD04ST-30RB34 | MA12FSAHD04ST-30CB34 | MA12FSAHD04ST-30RB34 |
| | 5m | MA12MSAHD04ST50CB34 | MA12MSAHD04ST-50RB34 | MA12FSAHD04ST-50CB34 | MA12FSAHD04ST-50RB34 |
| 5 | 1m | MA12MSAHD05ST10CB34 | MA12MSAHD05ST-10RB34 | MA12FSAHD05ST-10CB34 | MA12FSAHD05ST-10RB34 |
| | 3m | MA12MSAHD05ST30CB34 | MA12MSAHD05ST-30RB34 | MA12FSAHD05ST-30CB34 | MA12FSAHD05ST-30RB34 |
| | 5m | MA12MSAHD05ST50CB34 | MA12MSAHD05ST-50RB34 | MA12FSAHD05ST-50CB34 | MA12FSAHD05ST-50RB34 |
| 8 | 1m | MA12MSAHD08ST10CB25 | MA12MSAHD08ST-10RB25 | MA12FSAHD08ST-10CB25 | MA12FSAHD08ST-10RB25 |
| | 3m | MA12MSAHD08ST30CB25 | MA12MSAHD08ST-30RB25 | MA12FSAHD08ST-30CB25 | MA12FSAHD08ST-30RB25 |
| | 5m | MA12MSAHD08ST50CB25 | MA12MSAHD08ST-50RB25 | MA12FSAHD08ST-50CB25 | MA12FSAHD08ST-50RB25 |
| 12 | 1m | MA12MSAF12ST10CB14 | MA12MSAF12ST-10RB14 | MA12FSAF12ST-10CB14 | MA12FSAF12ST-10RB14 |
| | 3m | MA12MSAF12ST30CB14 | MA12MSAF12ST-30RB14 | MA12FSAF12ST-30CB14 | MA12FSAF12ST-30RB14 |
| | 5m | MA12MSAF12ST50CB14 | MA12MSAF12ST-50RB14 | MA12FSAF12ST-50CB14 | MA12FSAF12ST-50RB14 |
| 17 | 1m | MA12MSAF17ST10CB14 | MA12MSAF17ST-10RB14 | MA12FSAF17ST-10CB14 | MA12FSAF17ST-10RB14 |
| | 3m | MA12MSAF17ST30CB14 | MA12MSAF17ST-30RB14 | MA12FSAF17ST-30CB14 | MA12FSAF17ST-30RB14 |
| | 5m | MA12MSAF17ST50CB14 | MA12MSAF17ST-50RB14 | MA12FSAF17ST-50CB14 | MA12FSAF17ST-50RB14 |

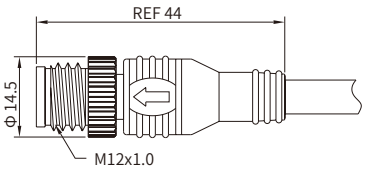
## Default wire colors

| Pin No. | | | | | | |
|---|---|---|---|---|---|---|
| Pin 1 | BN | BN | BN | WH | WH | BN 13. WH/GN |
| Pin 2 | | WH | WH | BN | BN | BU 14. BN/GN |
| Pin 3 | BU | BU | BU | GN | GN | WH 15. WH/YE |
| Pin 4 | BK | BK | BK | YE | YE | GN 16. YE/BN |
| Pin 5 | | | GY | GY | GY | PK 17. WH/GY |
| Pin 6 | | | | PK | PK | YE |
| Pin 7 | | | | BU | BU | BK |
| Pin 8 | | | | RD | RD | GY |
| Pin 9 | | | | | OR | RD |
| Pin 10 | | | | | TP | VT |
| Pin 11 | | | | | BK | GY/PK |
| Pin 12 | | | | | VT | RD/BU |
| Shell | Braid | | | | | |

# M12 A-coding (Sensor and Actuator)

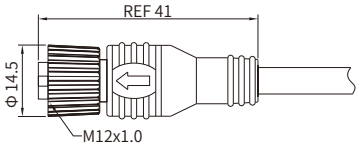
## M12 A-coding Straight Connector, Molded Cable, Plastic

Male




CE RoHS

Female




CE RoHS

## Specifications

| Contacts | 3 | 4 | 5 | 8 | 12 | 17 |
|---|---|---|---|---|---|---|
| Certification | cULus LISTED CYJV/CYJV7. E321413 | | cULus CYJV2(CYJV8).E321413 | | cULus LISTED CYJV(CYJV7).E321413 | |
| Pin layout(Male) | | | | | | |
| Pin layout(Female) | | | | | | |
| Standard | IEC 61076-2-101 | | | | | |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | | | | | |
| Connector insert | TPU | | | | | |
| Connector contacts | Brass with gold plated | | | | | |
| Connector overmold | TPU | | | | | |
| Coupling nut/screw | PA+GF | | | | | |
| Seal/O-ring(of Female) | FKM | | | | | |
| Insulation resistance | ⩾100MΩ | | | | | |
| Contact resistance | ⩽5mΩ | | | | | |
| Shielding | Unavailable | | | | | |
| IP rating | IP67, IP68 in locked condition | | | | | |
| Mating endurance | >500 cycles | | | | | |
| Rated current | 4 A | | | 2A | 1.5A | |
| Rated voltage | 250V AC/DC | | 60V AC/DC | 30V AC/DC | 30V AC/DC | |
| Wire gauge | 0.34mm²(AWG22) | | | 0.25mm²( AWG24) | 0.14mm²(AWG26) | |

## Part Number

*17 pin with different overmold from above other pins.

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 3 | 1m | MA12MAP03ST10CB34 | MA12MAP03ST10RB34 | MA12FAP03ST10CB34 | MA12FAP03ST10RB34 |
| | 3m | MA12MAP03ST30CB34 | MA12MAP03ST30RB34 | MA12FAP03ST30CB34 | MA12FAP03ST30RB34 |
| | 5m | MA12MAP03ST50CB34 | MA12MAP03ST50RB34 | MA12FAP03ST50CB34 | MA12FAP03ST50RB34 |
| 4 | 1m | MA12MAP04ST10CB34 | MA12MAP04ST10RB34 | MA12FAP04ST10CB34 | MA12FAP04ST10RB34 |
| | 3m | MA12MAP04ST30CB34 | MA12MAP04ST30RB34 | MA12FAP04ST30CB34 | MA12FAP04ST30RB34 |
| | 5m | MA12MAP04ST50CB34 | MA12MAP04ST50RB34 | MA12FAP04ST50CB34 | MA12FAP04ST50RB34 |
| 5 | 1m | MA12MAP05ST10CB34 | MA12MAP05ST10RB34 | MA12FAP05ST10CB34 | MA12FAP05ST10RB34 |
| | 3m | MA12MAP05ST30CB34 | MA12MAP05ST30RB34 | MA12FAP05ST30CB34 | MA12FAP05ST30RB34 |
| | 5m | MA12MAP05ST50CB34 | MA12MAP05ST50RB34 | MA12FAP05ST50CB34 | MA12FAP05ST50RB34 |
| 8 | 1m | MA12MAP08ST10CB25 | MA12MAP08ST10RB25 | MA12FAP08ST10CB25 | MA12FAP08ST10RB25 |
| | 3m | MA12MAP08ST30CB25 | MA12MAP08ST30RB25 | MA12FAP08ST30CB25 | MA12FAP08ST30RB25 |
| | 5m | MA12MAP08ST50CB25 | MA12MAP08ST50RB25 | MA12FAP08ST50CB25 | MA12FAP08ST50RB25 |
| 12 | 1m | MA12MAP12ST10CB14 | MA12MAP12ST10RB14 | MA12FAP12ST10CB14 | MA12FAP12ST10RB14 |
| | 3m | MA12MAP12ST30CB14 | MA12MAP12ST30RB14 | MA12FAP12ST30CB14 | MA12FAP12ST30RB14 |
| | 5m | MA12MAP12ST50CB14 | MA12MAP12ST50RB14 | MA12FAP12ST50CB14 | MA12FAP12ST50RB14 |
| 17 | 1m | MA12MAP17ST10CB14 | MA12MAP17ST10RB14 | MA12FAP17ST10CB14 | MA12FAP17ST10RB14 |
| | 3m | MA12MAP17ST30CB14 | MA12MAP17ST30RB14 | MA12FAP17ST30CB14 | MA12FAP17ST30RB14 |
| | 5m | MA12MAP17ST50CB14 | MA12MAP17ST50RB14 | MA12FAP17ST50CB14 | MA12FAP17ST50RB14 |

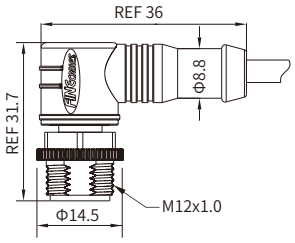
## Default wire colors

| Pin No. | | | | | | |
|---|---|---|---|---|---|---|
| Pin 1 | BN | BN | BN | WH | WH | BN 13. WH/GN |
| Pin 2 | | WH | WH | BN | BN | BU 14. BN/GN |
| Pin 3 | BU | BU | BU | GN | GN | WH 15. WH/YE |
| Pin 4 | BK | BK | BK | YE | YE | GN 16. YE/BN |
| Pin 5 | | | GY | GY | GY | PK 17. WH/GY |
| Pin 6 | | | | PK | PK | YE |
| Pin 7 | | | | BU | BU | BK |
| Pin 8 | | | | RD | RD | GY |
| Pin 9 | | | | | OR | RD |
| Pin 10 | | | | | TP | VT |
| Pin 11 | | | | | BK | GY/PK |
| Pin 12 | | | | | VT | RD/BU |

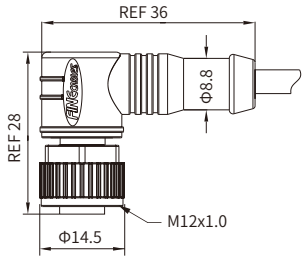
# M12 A-coding (Sensor and Actuator)

## M12 A-coding Angled Connector, Molded Cable

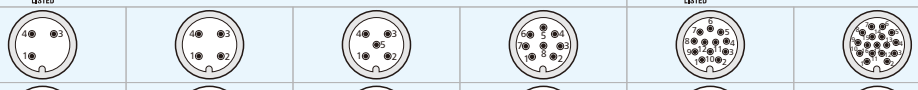
Male




Female




## Specifications

| Contacts | 3 | 4 | 5 | 8 | 12 | 17 |
|---|---|---|---|---|---|---|
| Certification | CYJV/CYJV7. E321413 | | CYJV2(CYJV8).E321413 | | CYJV(CYJV7).E321413 | |
| Pin layout(Male) |  | | | | | |
| Pin layout(Female) | | | | | | |
| Standard | IEC 61076-2-101 | | | | | |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | | | | | |
| Connector insert | TPU | | | | | |
| Connector contacts | Brass with gold plated | | | | | |
| Connector overmold | TPU | | | | | |
| Coupling nut/screw | Zinc alloy with nickel plated | | | | | |
| Seal/O-ring(of Female) | FKM | | | | | |
| Insulation resistance | ⩾100MΩ | | | | | |
| Contact resistance | ⩽5mΩ | | | | | |
| Shielding | Unavailable | | | | | |
| IP rating | IP67, IP68, IP69K in locked condition | | | | | |
| Mating endurance | >500 cycles | | | | | |
| Rated current | 4 A | | | 2A | 1.5A | |
| Rated voltage | 250V AC/DC | | 60V AC/DC | 30V AC/DC | 30V AC/DC | |
| Wire gauge | 0.34mm²(AWG22) | | | 0.25mm²( AWG24) | 0.14mm²(AWG26) | |

## Part Number

*12 pin 17 pin with different overmold from above other pins.

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 3 | 1m | MA12MAHD03RA10CB34 | MA12MAHD03RA10RB34 | MA12FAHD03RA10CB34 | MA12FAHD03RA10RB34 |
| | 3m | MA12MAHD03RA30CB34 | MA12MAHD03RA30RB34 | MA12FAHD03RA30CB34 | MA12FAHD03RA30RB34 |
| | 5m | MA12MAHD03RA50CB34 | MA12MAHD03RA50RB34 | MA12FAHD03RA50CB34 | MA12FAHD03RA50RB34 |
| 4 | 1m | MA12MAHD04RA10CB34 | MA12MAHD04RA10RB34 | MA12FAHD04RA10CB34 | MA12FAHD04RA10RB34 |
| | 3m | MA12MAHD04RA30CB34 | MA12MAHD04RA30RB34 | MA12FAHD04RA30CB34 | MA12FAHD04RA30RB34 |
| | 5m | MA12MAHD04RA50CB34 | MA12MAHD04RA50RB34 | MA12FAHD04RA50CB34 | MA12FAHD04RA50RB34 |
| 5 | 1m | MA12MAHD05RA10CB34 | MA12MAHD05RA10RB34 | MA12FAHD05RA10CB34 | MA12FAHD05RA10RB34 |
| | 3m | MA12MAHD05RA30CB34 | MA12MAHD05RA30RB34 | MA12FAHD05RA30CB34 | MA12FAHD05RA30RB34 |
| | 5m | MA12MAHD05RA50CB34 | MA12MAHD05RA50RB34 | MA12FAHD05RA50CB34 | MA12FAHD05RA50RB34 |
| 8 | 1m | MA12MAHD08RA10CB25 | MA12MAHD08RA10RB25 | MA12FAHD08RA10CB25 | MA12FAHD08RA10RB25 |
| | 3m | MA12MAHD08RA30CB25 | MA12MAHD08RA30RB25 | MA12FAHD08RA30CB25 | MA12FAHD08RA30RB25 |
| | 5m | MA12MAHD08RA50CB25 | MA12MAHD08RA50RB25 | MA12FAHD08RA50CB25 | MA12FAHD08RA50RB25 |
| 12 | 1m | MA12MAHD12RA10CB14 | MA12MAHD12RA10RB14 | MA12FAHD12RA10CB14 | MA12FAHD12RA10RB14 |
| | 3m | MA12MAHD12RA30CB14 | MA12MAHD12RA30RB14 | MA12FAHD12RA30CB14 | MA12FAHD12RA30RB14 |
| | 5m | MA12MAHD12RA50CB14 | MA12MAHD12RA50RB14 | MA12FAHD12RA50CB14 | MA12FAHD12RA50RB14 |
| 17 | 1m | MA12MAF17RA10CB14 | MA12MAF17RA10RB14 | MA12FAF17RA10CB14 | MA12FAF17RA10RB14 |
| | 3m | MA12MAF17RA30CB14 | MA12MAF17RA30RB14 | MA12FAF17RA30CB14 | MA12FAF17RA30RB14 |
| | 5m | MA12MAF17RA50CB14 | MA12MAF17RA50RB14 | MA12FAF17RA50CB14 | MA12FAF17RA50RB14 |

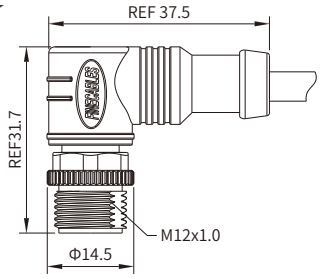
## Default wire colors

| Pin No. | | | | | | |
|---|---|---|---|---|---|---|
| Pin 1 | BN | BN | BN | WH | WH | BN 13. WH/GN |
| Pin 2 | | WH | WH | BN | BN | BU 14. BN/GN |
| Pin 3 | BU | BU | BU | GN | GN | WH 15. WH/YE |
| Pin 4 | BK | BK | BK | YE | YE | GN 16. YE/BN |
| Pin 5 | | | GY | GY | GY | PK 17. WH/GY |
| Pin 6 | | | | PK | PK | YE |
| Pin 7 | | | | BU | BU | BK |
| Pin 8 | | | | RD | RD | GY |
| Pin 9 | | | | | OR | RD |
| Pin 10 | | | | | TP | VT |
| Pin 11 | | | | | BK | GY/PK |
| Pin 12 | | | | | VT | RD/BU |

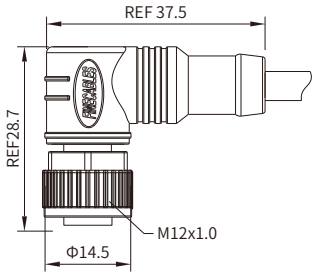
# M12 A-coding (Sensor and Actuator)

## M12 A-coding Angled Connector, Molded Cable, Shielded

Male




Female




## Specifications

| Contacts | 3 | 4 | 5 | 8 | 12 | 17 |
|---|---|---|---|---|---|---|
| Certification | CYJV/CYJV7. E321413 | | CYJV2(CYJV8).E321413 | | CYJV(CYJV7).E321413 | |
| Pin layout(Male) | | | | | | |
| Pin layout(Female) | | | | | | |

| | | | | | |
|---|---|---|---|---|---|
| Standard | IEC 61076-2-101 | | | | |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | | | | |
| Connector insert | TPU+GF | | | | |
| Connector contacts | Brass with gold plated | | | | |
| Connector overmold | TPU | | | | |
| Coupling nut/screw | Zinc alloy with nickel plated (12pin,17pin brass with nickel plated) | | | | |
| Seal/O-ring(of Female) | FKM | | | | |
| Insulation resistance | ⩾100MΩ | | | | |
| Contact resistance | ⩽5mΩ | | | | |
| Shielding | Available | | | | |
| IP rating | IP67, IP68, IP69K in locked condition | | | | |
| Mating endurance | >500 cycles | | | | |
| Rated current | 4 A | | 2A | 1.5A | |
| Rated voltage | 250V AC/DC | 60V AC/DC | 30V AC/DC | 30V AC/DC | |
| Wire gauge | 0.34mm²(AWG22) | | 0.25mm²(AWG24) | 0.14mm²(AWG26) | |

## Part Number

*12 pin 17 pin with different overmold from above other pins.

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 3 | 1m | MA12MSAHD03RA10CB34 | MA12MSAHD03RA10RB34 | MA12FSAHD03RA10CB34 | MA12FSAHD03RA10RB34 |
| | 3m | MA12MSAHD03RA30CB34 | MA12MSAHD03RA30RB34 | MA12FSAHD03RA30CB34 | MA12FSAHD03RA30RB34 |
| | 5m | MA12MSAHD03RA50CB34 | MA12MSAHD03RA50RB34 | MA12FSAHD03RA50CB34 | MA12FSAHD03RA50RB34 |
| 4 | 1m | MA12MSAHD04RA10CB34 | MA12MSAHD04RA10RB34 | MA12FSAHD04RA10CB34 | MA12FSAHD04RA10RB34 |
| | 3m | MA12MSAHD04RA30CB34 | MA12MSAHD04RA30RB34 | MA12FSAHD04RA30CB34 | MA12FSAHD04RA30RB34 |
| | 5m | MA12MSAHD04RA50CB34 | MA12MSAHD04RA50RB34 | MA12FSAHD04RA50CB34 | MA12FSAHD04RA50RB34 |
| 5 | 1m | MA12MSAHD05RA10CB34 | MA12MSAHD05RA10RB34 | MA12FSAHD05RA10CB34 | MA12FSAHD05RA10RB34 |
| | 3m | MA12MSAHD05RA30CB34 | MA12MSAHD05RA30RB34 | MA12FSAHD05RA30CB34 | MA12FSAHD05RA30RB34 |
| | 5m | MA12MSAHD05RA50CB34 | MA12MSAHD05RA50RB34 | MA12FSAHD05RA50CB34 | MA12FSAHD05RA50RB34 |
| 8 | 1m | MA12MSAHD08RA10CB25 | MA12MSAHD08RA10RB25 | MA12FSAHD08RA10CB25 | MA12FSAHD08RA10RB25 |
| | 3m | MA12MSAHD08RA30CB25 | MA12MSAHD08RA30RB25 | MA12FSAHD08RA30CB25 | MA12FSAHD08RA30RB25 |
| | 5m | MA12MSAHD08RA50CB25 | MA12MSAHD08RA50RB25 | MA12FSAHD08RA50CB25 | MA12FSAHD08RA50RB25 |
| 12 | 1m | MA12MSAF12RA10CB14 | MA12MSAF12RA10RB14 | MA12FSAF12RA10CB14 | MA12FSAF12RA10RB14 |
| | 3m | MA12MSAF12RA30CB14 | MA12MSAF12RA30RB14 | MA12FSAF12RA30CB14 | MA12FSAF12RA30RB14 |
| | 5m | MA12MSAF12RA50CB14 | MA12MSAF12RA50RB14 | MA12FSAF12RA50CB14 | MA12FSAF12RA50RB14 |
| 17 | 1m | MA12MSAF17RA10CB14 | MA12MSAF17RA10RB14 | MA12FSAF17RA10CB14 | MA12FSAF17RA10RB14 |
| | 3m | MA12MSAF17RA30CB14 | MA12MSAF17RA30RB14 | MA12FSAF17RA30CB14 | MA12FSAF17RA30RB14 |
| | 5m | MA12MSAF17RA50CB14 | MA12MSAF17RA50RB14 | MA12FSAF17RA50CB14 | MA12FSAF17RA50RB14 |

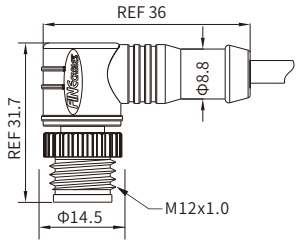
## Default wire colors

| Pin No. | | | | | | |
|---|---|---|---|---|---|---|
| Pin 1 | BN | BN | BN | WH | WH | BN 13. WH/GN |
| Pin 2 | | WH | WH | BN | BN | BU 14. BN/GN |
| Pin 3 | BU | BU | BU | GN | GN | WH 15. WH/YE |
| Pin 4 | BK | BK | BK | YE | YE | GN 16. YE/BN |
| Pin 5 | | | GY | GY | GY | PK 17. WH/GY |
| Pin 6 | | | | PK | PK | YE |
| Pin 7 | | | | BU | BU | BK |
| Pin 8 | | | | RD | RD | GY |
| Pin 9 | | | | | OR | RD |
| Pin 10 | | | | | TP | VT |
| Pin 11 | | | | | BK | GY/PK |
| Pin 12 | | | | | VT | RD/BU |
| Shell | Braid | | | | | |

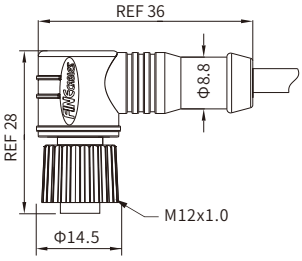
# M12 A-coding (Sensor and Actuator)

## M12 A-coding Angled Connector, Molded Cable, Plastic

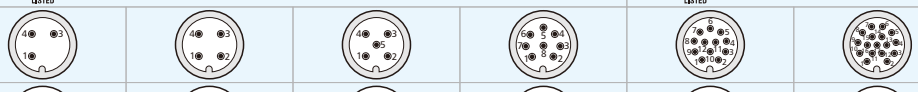
Male




Female




## Specifications

| Contacts | 3 | 4 | 5 | 8 | 12 | 17 |
|---|---|---|---|---|---|---|
| Certification | CYJV/CYJV7. E321413 | | CYJV2(CYJV8).E321413 | | CYJV(CYJV7).E321413 | |
| Pin layout(Male) |  | | | | | |
| Pin layout(Female) | | | | | | |
| Standard | IEC 61076-2-101 | | | | | |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | | | | | |
| Connector insert | TPU | | | | | |
| Connector contacts | Brass with gold plated | | | | | |
| Connector overmold | TPU | | | | | |
| Coupling nut/screw | PA+GF | | | | | |
| Seal/O-ring(of Female) | FKM | | | | | |
| Insulation resistance | ⩾100MΩ | | | | | |
| Contact resistance | ⩽5mΩ | | | | | |
| Shielding | Unavailable | | | | | |
| IP rating | IP67, IP68 in locked condition | | | | | |
| Mating endurance | >500 cycles | | | | | |
| Rated current | 4 A | | | 2A | 1.5A | |
| Rated voltage | 250V AC/DC | | 60V AC/DC | 30V AC/DC | 30V AC/DC | |
| Wire gauge | 0.34mm²(AWG22) | | | 0.25mm²( AWG24) | 0.14mm²(AWG26) | |

## Part Number

*12 pin 17 pin with different overmold from above other pins.

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 3 | 1m | MA12MAP03RA10CB34 | MA12MAP03RA10RB34 | MA12FAP03RA10CB34 | MA12FAP03RA10RB34 |
| | 3m | MA12MAP03RA30CB34 | MA12MAP03RA30RB34 | MA12FAP03RA30CB34 | MA12FAP03RA30RB34 |
| | 5m | MA12MAP03RA50CB34 | MA12MAP03RA50RB34 | MA12FAP03RA50CB34 | MA12FAP03RA50RB34 |
| 4 | 1m | MA12MAP04RA10CB34 | MA12MAP04RA10RB34 | MA12FAP04RA10CB34 | MA12FAP04RA10RB34 |
| | 3m | MA12MAP04RA30CB34 | MA12MAP04RA30RB34 | MA12FAP04RA30CB34 | MA12FAP04RA30RB34 |
| | 5m | MA12MAP04RA50CB34 | MA12MAP04RA50RB34 | MA12FAP04RA50CB34 | MA12FAP04RA50RB34 |
| 5 | 1m | MA12MAP05RA10CB34 | MA12MAP05RA10RB34 | MA12FAP05RA10CB34 | MA12FAP05RA10RB34 |
| | 3m | MA12MAP05RA30CB34 | MA12MAP05RA30RB34 | MA12FAP05RA30CB34 | MA12FAP05RA30RB34 |
| | 5m | MA12MAP05RA50CB34 | MA12MAP05RA50RB34 | MA12FAP05RA50CB34 | MA12FAP05RA50RB34 |
| 8 | 1m | MA12MAP08RA10CB25 | MA12MAP08RA10RB25 | MA12FAP08RA10CB25 | MA12FAP08RA10RB25 |
| | 3m | MA12MAP08RA30CB25 | MA12MAP08RA30RB25 | MA12FAP08RA30CB25 | MA12FAP08RA30RB25 |
| | 5m | MA12MAP08RA50CB25 | MA12MAP08RA50RB25 | MA12FAP08RA50CB25 | MA12FAP08RA50RB25 |
| 12 | 1m | MA12MAP12RA10CB14 | MA12MAP12RA10RB14 | MA12FAP12RA10CB14 | MA12FAP12RA10RB14 |
| | 3m | MA12MAP12RA30CB14 | MA12MAP12RA30RB14 | MA12FAP12RA30CB14 | MA12FAP12RA30RB14 |
| | 5m | MA12MAP12RA50CB14 | MA12MAP12RA50RB14 | MA12FAP12RA50CB14 | MA12FAP12RA50RB14 |
| 17 | 1m | MA12MAP17RA10CB14 | MA12MAP17RA10RB14 | MA12FAP17RA10CB14 | MA12FAP17RA10RB14 |
| | 3m | MA12MAP17RA30CB14 | MA12MAP17RA30RB14 | MA12FAP17RA30CB14 | MA12FAP17RA30RB14 |
| | 5m | MA12MAP17RA50CB14 | MA12MAP17RA50RB14 | MA12FAP17RA50CB14 | MA12FAP17RA50RB14 |

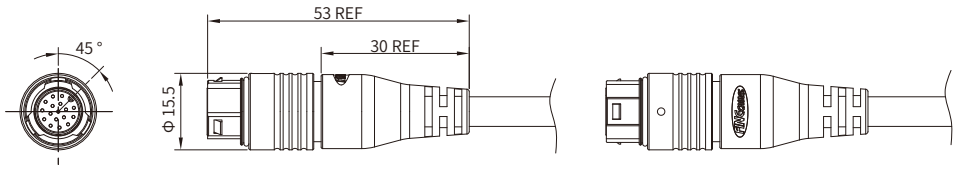
## Default wire colors

| Pin No. | | | | | | |
|---|---|---|---|---|---|---|
| Pin 1 | BN | BN | BN | WH | WH | BN 13. WH/GN |
| Pin 2 | | WH | WH | BN | BN | BU 14. BN/GN |
| Pin 3 | BU | BU | BU | GN | GN | WH 15. WH/YE |
| Pin 4 | BK | BK | BK | YE | YE | GN 16. YE/BN |
| Pin 5 | | | GY | GY | GY | PK 17. WH/GY |
| Pin 6 | | | | PK | PK | YE |
| Pin 7 | | | | BU | BU | BK |
| Pin 8 | | | | RD | RD | GY |
| Pin 9 | | | | | OR | RD |
| Pin 10 | | | | | TP | VT |
| Pin 11 | | | | | BK | GY/PK |
| Pin 12 | | | | | VT | RD/BU |

# M12 A-coding (Sensor and Actuator)

## M12 A-coding Push-Pull Male Straight Connector, Molded Cable, Shielded

Male




RoHS

## Specifications

| Contacts | 3 | 4 | 5 | 8 | 12 | 17 |
|---|---|---|---|---|---|---|
| Pin layout(Male) | | | | | | |
| Standard | IEC 61076-2-012-2020 | | | | | |
| Ambient temperature | -25 °C ~ +85°C | | | | | |
| Insulator | PA | | | | | |
| Connector contacts | Brass with gold plated | | | | | |
| Out shell | Brass with Black nickel plated | | | | | |
| Insulator resistance | ⩾100MΩ | | | | | |
| IP rating | IP 67(Mated) | | | | | |
| Shielding effciency | at 10MHz>75dB/at 1GHz>40dB | | | | | |
| Salt spray corrosion test | >96h | | | | | |
| Endurance | ＞500 cycles | | | | | |
| Rated current | 4 A | | | 2A | 1.5A | |
| Voltage | 250V AC/DC | | 60V AC/DC | 30V AC/DC | 30V AC/DC | |
| Wire gauge / size | 0.34mm² (AWG22) | | | 0.25mm² ( AWG24) | 0.14mm² (AWG26) | |

## Part Number

*17 pin with different overmold from above other pins.

| Pins | Cable length | Male | |
|---|---|---|---|
| | | PVC | PUR |
| 3 | 1m | MA12MPSAPP03ST10CG34 | MA12MPSAPP03ST10RG34 |
| | 3m | MA12MPSAPP03ST30CG34 | MA12MPSAPP03ST30RG34 |
| | 5m | MA12MPSAPP03ST50CG34 | MA12MPSAPP03ST50RG34 |
| 4 | 1m | MA12MPSAPP04ST10CG34 | MA12MPSAPP04ST10RG34 |
| | 3m | MA12MPSAPP04ST30CG34 | MA12MPSAPP04ST30RG34 |
| | 5m | MA12MPSAPP04ST50CG34 | MA12MPSAPP04ST50RG34 |
| 5 | 1m | MA12MPSAPP05ST10CG34 | MA12MPSAPP05ST10RG34 |
| | 3m | MA12MPSAPP05ST30CG34 | MA12MPSAPP05ST30RG34 |
| | 5m | MA12MPSAPP05ST50CG34 | MA12MPSAPP05ST50RG34 |
| 8 | 1m | MA12MPSAPP08ST10CG25 | MA12MPSAPP08ST10RG25 |
| | 3m | MA12MPSAPP08ST30CG25 | MA12MPSAPP08ST30RG25 |
| | 5m | MA12MPSAPP08ST50CG25 | MA12MPSAPP08ST50RG25 |
| 12 | 1m | MA12MPSAPP12ST10CG14 | MA12MPSAPP12ST10RG14 |
| | 3m | MA12MPSAPP12ST30CG14 | MA12MPSAPP12ST30RG14 |
| | 5m | MA12MPSAPP12ST50CG14 | MA12MPSAPP12ST50RG14 |
| 17 | 1m | MA12MPSAPP17ST10CG14 | MA12MPSAPP17ST10RG14 |
| | 3m | MA12MPSAPP17ST30CG14 | MA12MPSAPP17ST30RG14 |
| | 5m | MA12MPSAPP17ST50CG14 | MA12MPSAPP17ST50RG14 |

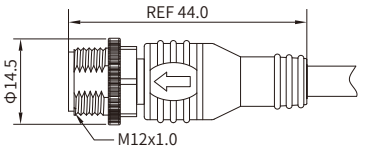
## Default wire colors

| Pin No. | | | | | | |
|---|---|---|---|---|---|---|
| Pin 1 | BN | BN | BN | WH | WH | BN 13. WH/GN |
| Pin 2 | | WH | WH | BN | BN | BU 14. BN/GN |
| Pin 3 | BU | BU | BU | GN | GN | WH 15. WH/YE |
| Pin 4 | BK | BK | BK | YE | YE | GN 16. YE/BN |
| Pin 5 | | | GY | GY | GY | PK 17. WH/GY |
| Pin 6 | | | | PK | PK | YE |
| Pin 7 | | | | BU | BU | BK |
| Pin 8 | | | | RD | RD | GY |
| Pin 9 | | | | | OR | RD |
| Pin 10 | | | | | TP | VT |
| Pin 11 | | | | | BK | GY/PK |
| Pin 12 | | | | | VT | RD/BU |
| Shell | Braid | | | | | |

# M12 A-coding (Sensor and Actuator)

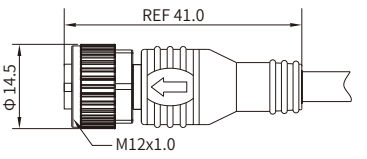
## M12 A-coding Straight Connector, Molded Cable, with LED Indicator

Male




CE RoHS

Female




CE RoHS

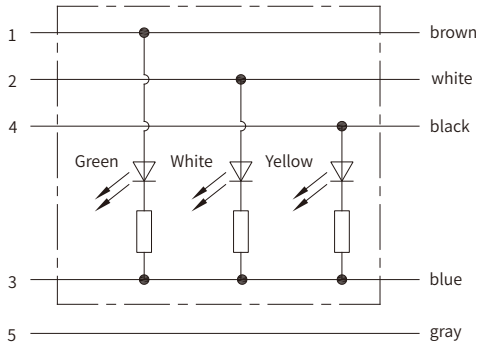
## Specifications

| Contacts | 5 |
|---|---|
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-101 |
| Ambient temperature | -20°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) |
| Connector insert | TPU |
| Connector contacts | Brass with gold plated |
| Connector overmold | TPU |
| Coupling nut/screw | Zinc alloy with nickel plated |
| Seal/O-ring(of Female) | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Shielding | Unavailable |
| IP rating | IP67 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 4 A |
| Rated voltage | 10~30V AC/DC |
| Wire gauge | 0.34mm$^2$(AWG22) |

## Part Number

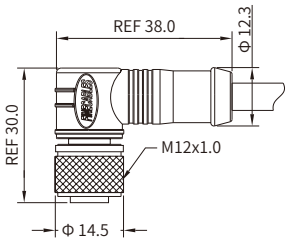
| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 5 (PNP) | 1m | MA12MLPAHD05ST10CB34 | MA12MLPAHD05ST10RB34 | MA12FLPAHD05ST10CB34 | MA12FLPAHD05ST10RB34 |
| | 3m | MA12MLPAHD05ST30CB34 | MA12MLPAHD05ST30RB34 | MA12FLPAHD05ST30CB34 | MA12FLPAHD05ST30RB34 |
| | 5m | MA12MLPAHD05ST50CB34 | MA12MLPAHD05ST50RB34 | MA12FLPAHD05ST50CB34 | MA12FLPAHD05ST50RB34 |
| 5 (NPN) | 1m | MA12MLNAHD05ST10CB34 | MA12MLNAHD05ST10RB34 | MA12FLNAHD05ST10CB34 | MA12FLNAHD05ST10RB34 |
| | 3m | MA12MLNAHD05ST30CB34 | MA12MLNAHD05ST30RB34 | MA12FLNAHD05ST30CB34 | MA12FLNAHD05ST30RB34 |
| | 5m | MA12MLNAHD05ST50CB34 | MA12MLNAHD05ST50RB34 | MA12FLNAHD05ST50CB34 | MA12FLNAHD05ST50RB34 |

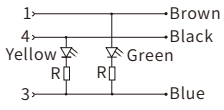
## Default wire colors



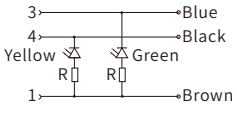
# M12 A-coding (Sensor and Actuator)

## M12 A-coding Angled Connector, Molded Cable, with LED Indicator




PNP




NPN

CE RoHS

## Specifications

| Contacts | 3 |
|---|---|
| Pin layout(Female) | Blind hole |
| Standard | IEC 61076-2-101 |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) |
| Connector insert | PA+GF |
| Connector contacts | Brass with gold plated |
| Connector overmold | Transparent TPU |
| Coupling nut/screw | Brass with nickel plated |
| Seal/O-ring(of Female) | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Shielding | Unavailable |
| IP rating | IP67, IP68 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 4 A |
| Rated voltage | 10~30V AC/DC |
| Wire gauge | 0.34mm$^2$ (AWG22) |

## Part Number

| Pins | Cable length | PNP | | NPN | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 3 | 1m | MA12FLPAF03RA10CB34 | MA12FLPAF03RA10RB34 | MA12FLNAF03RA10CB34 | MA12FLNAF03RA10RB34 |
| | 3m | MA12FLPAF03RA30CB34 | MA12FLPAF03RA30RB34 | MA12FLNAF03RA30CB34 | MA12FLNAF03RA30RB34 |
| | 5m | MA12FLPAF03RA50CB34 | MA12FLPAF03RA50RB34 | MA12FLNAF03RA50CB34 | MA12FLNAF03RA50RB34 |

## Default wire colors

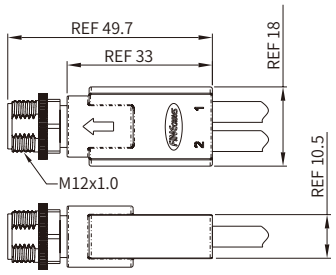
| Pin No. | |
|---|---|
| Pin 1 | BN |
| Pin 2 | |
| Pin 3 | BU |
| Pin 4 | BK |
| Pin 5 | |

# M12 A-coding (Sensor and Actuator)

## M12 A-coding Straight Connector, Molded 2 Cables

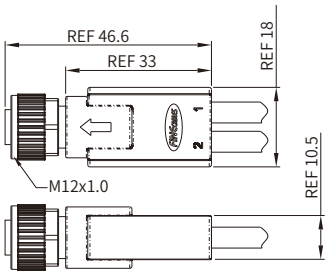
Male

RoHS




Female

RoHS




## Specifications

| Contacts | 3 | 4 | 5 | 8 |
|---|---|---|---|---|
| Pin layout(Male) | | | | Available |
| Pin layout(Female) | | | | Available |
| Standard | IEC 61076-2-101 | | | |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | | | |
| Connector insert | TPU | | | |
| Connector contacts | Brass with gold plated | | | |
| Connector overmold | TPU | | | |
| Coupling nut/screw | Zinc alloy with nickel plated | | | |
| Seal/O-ring(of Female) | FKM | | | |
| Insulation resistance | ⩾100MΩ | | | |
| Contact resistance | ⩽5mΩ | | | |
| Shielding | Unavailable/Available | | | |
| IP rating | IP67, IP68 in locked condition | | | |
| Mating endurance | >500 cycles | | | |
| Rated current | 4 A | | | 2A |
| Rated voltage | 250V AC/DC | | 60V AC/DC | 30V AC/DC |
| Wire gauge | 0.34mm² (AWG22) | | | 0.25mm² (AWG24) |

## Part Number

| Pins | Male | | | Female | | |
|---|---|---|---|---|---|---|
| | Unshielded | Shielding | | Unshielded | Shielding | |
| 3 | MT-015 | MST-001 | Customized cable | MT-029 | MST-005 | Customized cable |
| 4 | MT-016 | MST-002 | | MT-030 | MST-006 | |
| 5 | MT-017 | MST-003 | | MT-031 | MST-007 | |
| 8 | MT-079 | MTS-004 | | MT-080 | MTS-008 | |

## Default wire colors

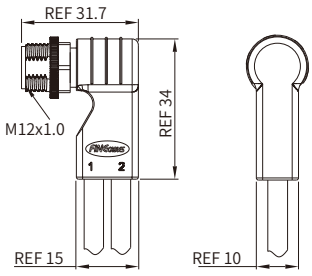
| Pin No. | | | | |
|---|---|---|---|---|
| Pin 1 | BN | BN | BN | WH |
| Pin 2 | | WH | WH | BN |
| Pin 3 | BU | BU | BU | GN |
| Pin 4 | BK | BK | BK | YE |
| Pin 5 | | | GY | GY |
| Pin 6 | | | | PK |
| Pin 7 | | | | BU |
| Pin 8 | | | | RD |

# M12 A-coding (Sensor and Actuator)

## M12 A-coding Angled Connector, Molded 2 Cables

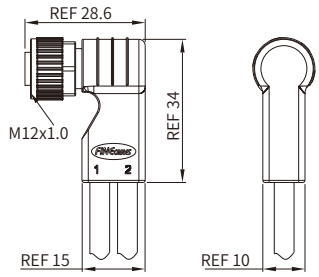
Male

RoHS




Female

RoHS




## Specifications

| Contacts | 3 | 4 | 5 |
|---|---|---|---|
| Pin layout(Male) | | | |
| Pin layout(Female) | | | |
| Standard | IEC 61076-2-101 | | |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | | |
| Connector insert | TPU | | |
| Connector contacts | Brass with gold plated | | |
| Connector overmold | TPU | | |
| Coupling nut/screw | Zinc alloy with nickel plated | | |
| Seal/O-ring(of Female) | FKM | | |
| Insulation resistance | ⩾100MΩ | | |
| Contact resistance | ⩽5mΩ | | |
| Shielding | Unavailable/Available | | |
| IP rating | IP67, IP68 in locked condition | | |
| Mating endurance | >500 cycles | | |
| Rated current | 4 A | | |
| Rated voltage | 250V AC/DC | | 60V AC/DC |
| Wire gauge | 0.34mm$^2$(AWG22) | | |

## Part Number

| Pins | Male | | | Female | | |
|---|---|---|---|---|---|---|
| | Unshielded | Shielding | | Unshielded | Shielding | |
| 3 | MT-022 | MST-009 | Customized cable | MT-036 | MST-012 | Customized cable |
| 4 | MT-023 | MST-010 | | MT-037 | MST-013 | |
| 5 | MT-024 | MTS-011 | | MT-038 | MST-014 | |

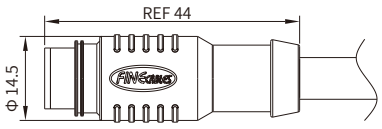
## Default wire colors

| Pin No. | | | |
|---|---|---|---|
| Pin 1 | BN | BN | BN |
| Pin 2 | | WH | WH |
| Pin 3 | BU | BU | BU |
| Pin 4 | BK | BK | BK |
| Pin 5 | | | GY |

# M12 A-coding (Sensor and Actuator)

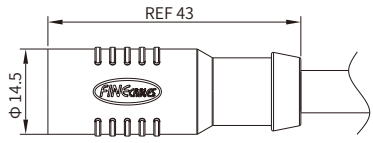
## M12 A-coding Straight Connector, Molded Cable, Snap-in Type

Male




CE RoHS

Female




CE RoHS

## Specifications

| Contacts | 3 | 4 | 5 | 8 |
|---|---|---|---|---|
| Pin layout(Male) | | | | |
| Pin layout(Female) | | | | |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | | | |
| Connector insert | TPU | | | |
| Connector contacts | Brass with gold plated | | | |
| Connector overmold | TPU | | | |
| Insulation resistance | ⩾100MΩ | | | |
| Contact resistance | ⩽5mΩ | | | |
| Shielding | Unavailable | | | |
| IP rating | IP65 in locked condition | | | |
| Mating endurance | >500 cycles | | | |
| Rated current | 4 A | | | 2A |
| Rated voltage | 250V AC/DC | | 60V AC/DC | 30V AC/DC |
| Wire gauge | 0.34mm$^2$(AWG22) | | | 0.25mm$^2$(AWG24) |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 3 | 1m | MA12MAI03ST10CB34 | MA12MAI03ST10RB34 | MA12FAI03ST10CB34 | MA12FAI03ST10RB34 |
| | 3m | MA12MAI03ST30CB34 | MA12MAI03ST30RB34 | MA12FAI03ST30CB34 | MA12FAI03ST30RB34 |
| | 5m | MA12MAI03ST50CB34 | MA12MAI03ST50RB34 | MA12FAI03ST50CB34 | MA12FAI03ST50RB34 |
| 4 | 1m | MA12MAI04ST10CB34 | MA12MAI04ST10RB34 | MA12FAI04ST10CB34 | MA12FAI04ST10RB34 |
| | 3m | MA12MAI04ST30CB34 | MA12MAI04ST30RB34 | MA12FAI04ST30CB34 | MA12FAI04ST30RB34 |
| | 5m | MA12MAI04ST50CB34 | MA12MAI04ST50RB34 | MA12FAI04ST50CB34 | MA12FAI04ST50RB34 |
| 5 | 1m | MA12MAI05ST10CB34 | MA12MAI05ST10RB34 | MA12FAI05ST10CB34 | MA12FAI05ST10RB34 |
| | 3m | MA12MAI05ST30CB34 | MA12MAI05ST30RB34 | MA12FAI05ST30CB34 | MA12FAI05ST30RB34 |
| | 5m | MA12MAI05ST50CB34 | MA12MAI05ST50RB34 | MA12FAI05ST50CB34 | MA12FAI05ST50RB34 |
| 8 | 1m | MA12MAI08ST10CB25 | MA12MAI08ST10RB25 | MA12FAI08ST10CB25 | MA12FAI08ST10RB25 |
| | 3m | MA12MAI08ST30CB25 | MA12MAI08ST30RB25 | MA12FAI08ST30CB25 | MA12FAI08ST30RB25 |
| | 5m | MA12MAI08ST50CB25 | MA12MAI08ST50RB25 | MA12FAI08ST50CB25 | MA12FAI08ST50RB25 |

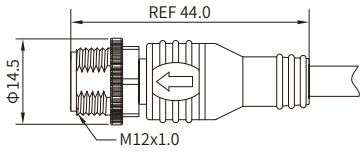
## Default wire colors

| Pin No. | | | | |
|---|---|---|---|---|
| Pin 1 | BN | BN | BN | WH |
| Pin 2 | | WH | WH | BN |
| Pin 3 | BU | BU | BU | GN |
| Pin 4 | BK | BK | BK | YE |
| Pin 5 | | | GY | GY |
| Pin 6 | | | | PK |
| Pin 7 | | | | BU |
| Pin 8 | | | | RD |

# M12 B-coding (Profibus)

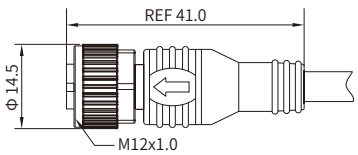
## M12 B-coding Straight Connector, Molded Cable

Male




RoHS

Female




RoHS

## Specifications

| Contacts | 3 | 4 | 5 |
|---|---|---|---|
| Certification | CYJV/CYJV7. E321413 | CYJV2(CYJV8).E321413 | |
| Pin layout(Male) | | | |
| Pin layout(Female) | | | |
| Standard | IEC 61076-2-101 | | |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | | |
| Connector insert | TPU | | |
| Connector contacts | Brass with gold plated | | |
| Connector overmold | TPU | | |
| Coupling nut/screw | Zinc alloy with nickel plated | | |
| Seal/O-ring(of Female) | FKM | | |
| Insulation resistance | ⩾100MΩ | | |
| Contact resistance | ⩽5mΩ | | |
| Shielding | Unavailable | | |
| IP rating | IP67, IP68, IP69K in locked condition | | |
| Mating endurance | >500 cycles | | |
| Rated current | 4 A | | |
| Rated voltage | 250V AC/DC | | 60V AC/DC |
| Wire gauge | 0.34 $mm^2$ (AWG 22) | | |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 3 | 1m | MA12MBHD03ST10CB34 | MA12MBHD03ST10RB34 | MA12FBHD03ST10CB34 | MA12FBHD03ST10RB34 |
| | 3m | MA12MBHD03ST30CB34 | MA12MBHD03ST30RB34 | MA12FBHD03ST30CB34 | MA12FBHD03ST30RB34 |
| | 5m | MA12MBHD03ST50CB34 | MA12MBHD03ST50RB34 | MA12FBHD03ST50CB34 | MA12FBHD03ST50RB34 |
| 4 | 1m | MA12MBHD04ST10CB34 | MA12MBHD04ST10RB34 | MA12FBHD04ST10CB34 | MA12FBHD04ST10RB34 |
| | 3m | MA12MBHD04ST30CB34 | MA12MBHD04ST30RB34 | MA12FBHD04ST30CB34 | MA12FBHD04ST30RB34 |
| | 5m | MA12MBHD04ST50CB34 | MA12MBHD04ST50RB34 | MA12FBHD04ST50CB34 | MA12FBHD04ST50RB34 |
| 5 | 1m | MA12MBHD05ST10CB34 | MA12MBHD05ST10RB34 | MA12FBHD05ST10CB34 | MA12FBHD05ST10RB34 |
| | 3m | MA12MBHD05ST30CB34 | MA12MBHD05ST30RB34 | MA12FBHD05ST30CB34 | MA12FBHD05ST30RB34 |
| | 5m | MA12MBHD05ST50CB34 | MA12MBHD05ST50RB34 | MA12FBHD05ST50CB34 | MA12FBHD05ST50RB34 |

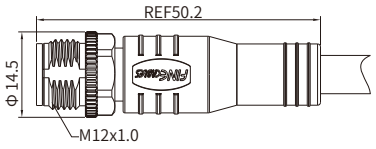
## Default wire colors

| Pin No. | | | Profibus |
|---|---|---|---|
| Pin 1 | BN | BN | BN |
| Pin 2 | | WH | WH GN |
| Pin 3 | BU | BU | BU |
| Pin 4 | BK | BK | BK RD |
| Pin 5 | | | GY |

# M12 B-coding (Profibus)

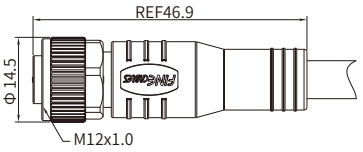
## M12 B-coding Straight Connector, Molded Cable, Shielded

Male




CE RoHS

Female




CE RoHS

## Specifications

| Contacts | 3 | 4 | 5 |
|---|---|---|---|
| Certification | cULus LISTED CYJV/CYJV7. E321413 | c UL us CYJV2(CYJV8).E321413 | |
| Pin layout(Male) | | | |
| Pin layout(Female) | | | |
| Standard | IEC 61076-2-101 | | |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | | |
| Connector insert | TPU | | |
| Connector contacts | Brass with gold plated | | |
| Connector overmold | TPU+GF | | |
| Coupling nut/screw | Zinc alloy with nickel plated | | |
| Seal/O-ring(of Female) | FKM | | |
| Insulation resistance | ⩾100MΩ | | |
| Contact resistance | ⩽5mΩ | | |
| Shielding | Available | | |
| IP rating | IP67, IP68, IP69K in locked condition | | |
| Mating endurance | >500 cycles | | |
| Rated current | 4 A | | |
| Rated voltage | 250V AC/DC | | 60V AC/DC |
| Wire gauge | 0.34 $mm^2$ (AWG 22) | | |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 3 | 1m | MA12MSBHD03ST10CB34 | MA12MSBHD03ST10RB34 | MA12FSBHD03ST10CB34 | MA12FSBHD03ST10RB34 |
| | 3m | MA12MSBHD03ST30CB34 | MA12MSBHD03ST30RB34 | MA12FSBHD03ST30CB34 | MA12FSBHD03ST30RB34 |
| | 5m | MA12MSBHD03ST50CB34 | MA12MSBHD03ST50RB34 | MA12FSBHD03ST50CB34 | MA12FSBHD03ST50RB34 |
| 4 | 1m | MA12MSBHD04ST10CB34 | MA12MSBHD04ST10RB34 | MA12FSBHD04ST10CB34 | MA12FSBHD04ST10RB34 |
| | 3m | MA12MSBHD04ST30CB34 | MA12MSBHD04ST30RB34 | MA12FSBHD04ST30CB34 | MA12FSBHD04ST30RB34 |
| | 5m | MA12MSBHD04ST50CB34 | MA12MSBHD04ST50RB34 | MA12FSBHD04ST50CB34 | MA12FSBHD04ST50RB34 |
| 5 | 1m | MA12MSBHD05ST10CB34 | MA12MSBHD05ST10RB34 | MA12FSBHD05ST10CB34 | MA12FSBHD05ST10RB34 |
| | 3m | MA12MSBHD05ST30CB34 | MA12MSBHD05ST30RB34 | MA12FSBHD05ST30CB34 | MA12FSBHD05ST30RB34 |
| | 5m | MA12MSBHD05ST50CB34 | MA12MSBHD05ST50RB34 | MA12FSBHD05ST50CB34 | MA12FSBHD05ST50RB34 |

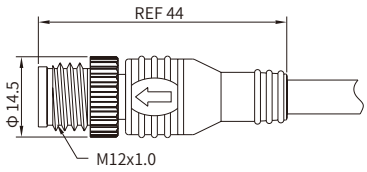
## Default wire colors

| Pin No. | | | | Profibus |
|---|---|---|---|---|
| Pin 1 | BN | BN | BN | |
| Pin 2 | | WH | WH | GN |
| Pin 3 | BU | BU | BU | |
| Pin 4 | BK | BK | BK | RD |
| Pin 5 | | | GY | |
| Shell | Braid | | | |

# M12 B-coding (Profibus)

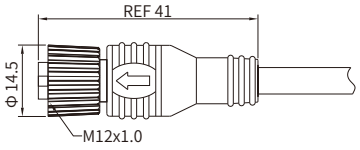
## M12 B-coding Straight Connector, Molded Cable, Plastic

Male




CE RoHS

Female




CE RoHS

## Specifications

| Contacts | 3 | 4 | 5 |
|---|---|---|---|
| Certification | cULus LISTED CYJV/CYJV7. E321413 | c UL us CYJV2(CYJV8).E321413 | |
| Pin layout(Male) | | | |
| Pin layout(Female) | | | |
| Standard | IEC 61076-2-101 | | |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | | |
| Connector insert | TPU | | |
| Connector contacts | Brass with gold plated | | |
| Connector overmold | TPU | | |
| Coupling nut/screw | PA+GF | | |
| Seal/O-ring(of Female) | FKM | | |
| Insulation resistance | ⩾100MΩ | | |
| Contact resistance | ⩽5mΩ | | |
| Shielding | Unavailable | | |
| IP rating | IP67, IP68 in locked condition | | |
| Mating endurance | >500 cycles | | |
| Rated current | 4 A | | |
| Rated voltage | 250V AC/DC | | 60V AC/DC |
| Wire gauge | 0.34 $mm^2$ (AWG 22) | | |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 3 | 1m | MA12MBP03ST10CB34 | MA12MBP03ST10RB34 | MA12FBP03ST10CB34 | MA12FBP03ST10RB34 |
| | 3m | MA12MBP03ST30CB34 | MA12MBP03ST30RB34 | MA12FBP03ST30CB34 | MA12FBP03ST30RB34 |
| | 5m | MA12MBP03ST50CB34 | MA12MBP03ST50RB34 | MA12FBP03ST50CB34 | MA12FBP03ST50RB34 |
| 4 | 1m | MA12MBP04ST10CB34 | MA12MBP04ST10RB34 | MA12FBP04ST10CB34 | MA12FBP04ST10RB34 |
| | 3m | MA12MBP04ST30CB34 | MA12MBP04ST30RB34 | MA12FBP04ST30CB34 | MA12FBP04ST30RB34 |
| | 5m | MA12MBP04ST50CB34 | MA12MBP04ST50RB34 | MA12FBP04ST50CB34 | MA12FBP04ST50RB34 |
| 5 | 1m | MA12MBP05ST10CB34 | MA12MBP05ST10RB34 | MA12FBP05ST10CB34 | MA12FBP05ST10RB34 |
| | 3m | MA12MBP05ST30CB34 | MA12MBP05ST30RB34 | MA12FBP05ST30CB34 | MA12FBP05ST30RB34 |
| | 5m | MA12MBP05ST50CB34 | MA12MBP05ST50RB34 | MA12FBP05ST50CB34 | MA12FBP05ST50RB34 |

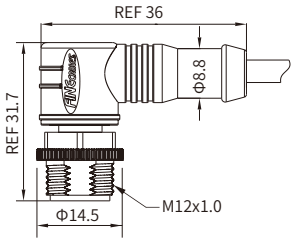
## Default wire colors

| Pin No. | | | | Profibus |
|---|---|---|---|---|
| Pin 1 | BN | BN | BN | |
| Pin 2 | | WH | WH | GN |
| Pin 3 | BU | BU | BU | |
| Pin 4 | BK | BK | BK | RD |
| Pin 5 | | | GY | |

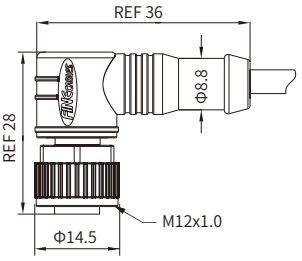
# M12 B-coding (Profibus)

## M12 B-coding Angled Connector, Molded Cable

Male




Female




## Specifications

| Contacts | 3 | 4 | 5 |
|---|---|---|---|
| Certification | cULus LISTED CYJV/CYJV7. E321413 | cULus CYJV2(CYJV8).E321413 | |
| Pin layout(Male) | | | |
| Pin layout(Female) | | | |
| Standard | IEC 61076-2-101 | | |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | | |
| Connector insert | TPU | | |
| Connector contacts | Brass with gold plated | | |
| Connector overmold | TPU | | |
| Coupling nut/screw | Zinc alloy with nickel plated | | |
| Seal/O-ring(of Female) | FKM | | |
| Insulation resistance | ⩾100MΩ | | |
| Contact resistance | ⩽5mΩ | | |
| Shielding | Unavailable | | |
| IP rating | IP67, IP68, IP69K in locked condition | | |
| Mating endurance | >500 cycles | | |
| Rated current | 4 A | | |
| Rated voltage | 250V AC/DC | | 60V AC/DC |
| Wire gauge | 0.34 mm2 (AWG 22) | | |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 3 | 1m | MA12MBHD03RA10CB34 | MA12MBHD03RA10RB34 | MA12FBHD03RA10CB34 | MA12FBHD03RA10RB34 |
| | 3m | MA12MBHD03RA30CB34 | MA12MBHD03RA30RB34 | MA12FBHD03RA30CB34 | MA12FBHD03RA30RB34 |
| | 5m | MA12MBHD03RA50CB34 | MA12MBHD03RA50RB34 | MA12FBHD03RA50CB34 | MA12FBHD03RA50RB34 |
| 4 | 1m | MA12MBHD04RA10CB34 | MA12MBHD04RA10RB34 | MA12FBHD04RA10CB34 | MA12FBHD04RA10RB34 |
| | 3m | MA12MBHD04RA30CB34 | MA12MBHD04RA30RB34 | MA12FBHD04RA30CB34 | MA12FBHD04RA30RB34 |
| | 5m | MA12MBHD04RA50CB34 | MA12MBHD04RA50RB34 | MA12FBHD04RA50CB34 | MA12FBHD04RA50RB34 |
| 5 | 1m | MA12MBHD05RA10CB34 | MA12MBHD05RA10RB34 | MA12FBHD05RA10CB34 | MA12FBHD05RA10RB34 |
| | 3m | MA12MBHD05RA30CB34 | MA12MBHD05RA30RB34 | MA12FBHD05RA30CB34 | MA12FBHD05RA30RB34 |
| | 5m | MA12MBHD05RA50CB34 | MA12MBHD05RA50RB34 | MA12FBHD05RA50CB34 | MA12FBHD05RA50RB34 |

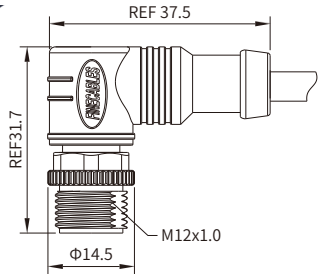
## Default wire colors

| Pin No. | | | Profibus |
|---|---|---|---|
| Pin 1 | BN | BN | BN |
| Pin 2 | | WH | WH GN |
| Pin 3 | BU | BU | BU |
| Pin 4 | BK | BK | BK RD |
| Pin 5 | | | GY |

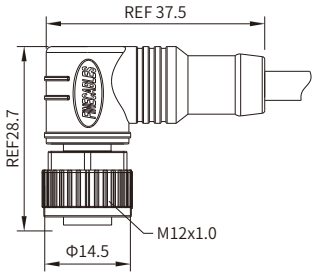
# M12 B-coding (Profibus)

## M12 B-coding Angled Connector, Molded Cable, Shielded

Male




Female




## Specifications

| Contacts | 3 | 4 | 5 |
|---|---|---|---|
| Certification | CYJV/CYJV7. E321413 | CYJV2(CYJV8).E321413 | |
| Pin layout(Male) | | | |
| Pin layout(Female) | | | |
| Standard | IEC 61076-2-101 | | |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | | |
| Connector insert | TPU+GF | | |
| Connector contacts | Brass with gold plated | | |
| Connector overmold | TPU | | |
| Coupling nut/screw | Zinc alloy with nickel plated | | |
| Seal/O-ring(of Female) | FKM | | |
| Insulation resistance | ⩾100MΩ | | |
| Contact resistance | ⩽5mΩ | | |
| Shielding | Available | | |
| IP rating | IP67, IP68, IP69K in locked condition | | |
| Mating endurance | >500 cycles | | |
| Rated current | 4 A | | |
| Rated voltage | 250V AC/DC | | 60V AC/DC |
| Wire gauge | 0.34 $mm^2$ (AWG 22) | | |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 3 | 1m | MA12MSBHD03RA10CB34 | MA12MSBHD03RA10RB34 | MA12FSBHD03RA10CB34 | MA12FSBHD03RA10RB34 |
| | 3m | MA12MSBHD03RA30CB34 | MA12MSBHD03RA30RB34 | MA12FSBHD03RA30CB34 | MA12FSBHD03RA30RB34 |
| | 5m | MA12MSBHD03RA50CB34 | MA12MSBHD03RA50RB34 | MA12FSBHD03RA50CB34 | MA12FSBHD03RA50RB34 |
| 4 | 1m | MA12MSBHD04RA10CB34 | MA12MSBHD04RA10RB34 | MA12FSBHD04RA10CB34 | MA12FSBHD04RA10RB34 |
| | 3m | MA12MSBHD04RA30CB34 | MA12MSBHD04RA30RB34 | MA12FSBHD04RA30CB34 | MA12FSBHD04RA30RB34 |
| | 5m | MA12MSBHD04RA50CB34 | MA12MSBHD04RA50RB34 | MA12FSBHD04RA50CB34 | MA12FSBHD04RA50RB34 |
| 5 | 1m | MA12MSBHD05RA10CB34 | MA12MSBHD05RA10RB34 | MA12FSBHD05RA10CB34 | MA12FSBHD05RA10RB34 |
| | 3m | MA12MSBHD05RA30CB34 | MA12MSBHD05RA30RB34 | MA12FSBHD05RA30CB34 | MA12FSBHD05RA30RB34 |
| | 5m | MA12MSBHD05RA50CB34 | MA12MSBHD05RA50RB34 | MA12FSBHD05RA50CB34 | MA12FSBHD05RA50RB34 |

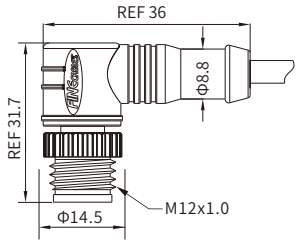
## Default wire colors

| Pin No. | | | | Profibus |
|---|---|---|---|---|
| Pin 1 | BN | BN | BN | |
| Pin 2 | | WH | WH | GN |
| Pin 3 | BU | BU | BU | |
| Pin 4 | BK | BK | BK | RD |
| Pin 5 | | | GY | |
| Shell | Braid | | | |

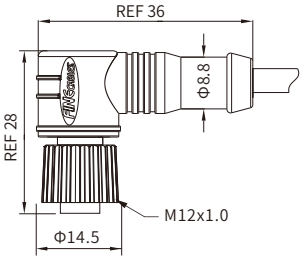
# M12 B-coding (Profibus)

## M12 B-coding Angled Connector, Molded Cable, Plastic

Male




Female




## Specifications

| Contacts | 3 | 4 | 5 |
|---|---|---|---|
| Certification | cULus LISTED CYJV/CYJV7. E321413 | c UL us CYJV2(CYJV8).E321413 | |
| Pin layout(Male) | | | |
| Pin layout(Female) | | | |
| Standard | IEC 61076-2-101 | | |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | | |
| Connector insert | TPU | | |
| Connector contacts | Brass with gold plated | | |
| Connector overmold | TPU | | |
| Coupling nut/screw | PA+GF | | |
| Seal/O-ring(of Female) | FKM | | |
| Insulation resistance | ⩾100MΩ | | |
| Contact resistance | ⩽5mΩ | | |
| Shielding | Unavailable | | |
| IP rating | IP67, IP68 in locked condition | | |
| Mating endurance | >500 cycles | | |
| Rated current | 4 A | | |
| Rated voltage | 250V AC/DC | | 60V AC/DC |
| Wire gauge | 0.34 $mm^2$ (AWG 22) | | |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 3 | 1m | MA12MBP03RA10CB34 | MA12MBP03RA10RB34 | MA12FBP03RA10CB34 | MA12FBP03RA10RB34 |
| | 3m | MA12MBP03RA30CB34 | MA12MBP03RA30RB34 | MA12FBP03RA30CB34 | MA12FBP03RA30RB34 |
| | 5m | MA12MBP03RA50CB34 | MA12MBP03RA50RB34 | MA12FBP03RA50CB34 | MA12FBP03RA50RB34 |
| 4 | 1m | MA12MBP04RA10CB34 | MA12MBP04RA10RB34 | MA12FBP04RA10CB34 | MA12FBP04RA10RB34 |
| | 3m | MA12MBP04RA30CB34 | MA12MBP04RA30RB34 | MA12FBP04RA30CB34 | MA12FBP04RA30RB34 |
| | 5m | MA12MBP04RA50CB34 | MA12MBP04RA50RB34 | MA12FBP04RA50CB34 | MA12FBP04RA50RB34 |
| 5 | 1m | MA12MBP05RA10CB34 | MA12MBP05RA10RB34 | MA12FBP05RA10CB34 | MA12FBP05RA10RB34 |
| | 3m | MA12MBP05RA30CB34 | MA12MBP05RA30RB34 | MA12FBP05RA30CB34 | MA12FBP05RA30RB34 |
| | 5m | MA12MBP05RA50CB34 | MA12MBP05RA50RB34 | MA12FBP05RA50CB34 | MA12FBP05RA50RB34 |

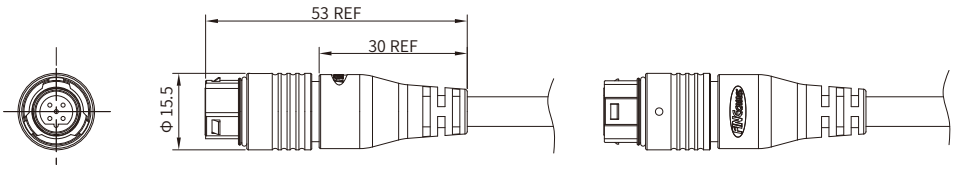
## Default wire colors

| Pin No. | | | Profibus |
|---|---|---|---|
| Pin 1 | BN | BN | BN |
| Pin 2 | | WH | WH / GN |
| Pin 3 | BU | BU | BU |
| Pin 4 | BK | BK | BK / RD |
| Pin 5 | | | GY |

# M12 B-coding (Profibus)

## M12 B-coding Push-Pull Male Straight Connector, Molded Cable, Shielded

Male




RoHS

## Specifications

| Contacts | 3 | 4 | 5 |
|---|---|---|---|
| Pin layout(Male) | | | |
| Standard | IEC 61076-2-012-2020 | | |
| Ambient temperature | -25 °C ~ +85°C | | |
| Insulator | PA | | |
| Connector contacts | Brass with gold plated | | |
| Out shell | Brass with Black nickel plated | | |
| Insulator resistance | ⩾100MΩ | | |
| IP rating | IP 67(Mated) | | |
| Shielding effciency | at 10MHz>75dB/at 1GHz>40dB | | |
| Salt spray corrosion test | >96h | | |
| Endurance | ＞500 cycles | | |
| Rated current | 4 A | | |
| Voltage | 250V AC/DC | | 60V AC/DC |
| Wire gauge / size | 0.34 $mm^2$ (AWG 22) | | |

## Part Number

| Pins | Cable length | Male | |
|---|---|---|---|
| | | PVC | PUR |
| 3 | 1m | MA12MPSBPP03ST10CG34 | MA12MPSBPP03ST10RG34 |
| | 3m | MA12MPSBPP03ST30CG34 | MA12MPSBPP03ST30RG34 |
| | 5m | MA12MPSBPP03ST50CG34 | MA12MPSBPP03ST50RG34 |
| 4 | 1m | MA12MPSBPP04ST10CG34 | MA12MPSBPP04ST10RG34 |
| | 3m | MA12MPSBPP04ST30CG34 | MA12MPSBPP04ST30RG34 |
| | 5m | MA12MPSBPP04ST50CG34 | MA12MPSBPP04ST50RG34 |
| 5 | 1m | MA12MPSBPP05ST10CG34 | MA12MPSBPP05ST10RG34 |
| | 3m | MA12MPSBPP05ST30CG34 | MA12MPSBPP05ST30RG34 |
| | 5m | MA12MPSBPP05ST50CG34 | MA12MPSBPP05ST50RG34 |

## Default wire colors

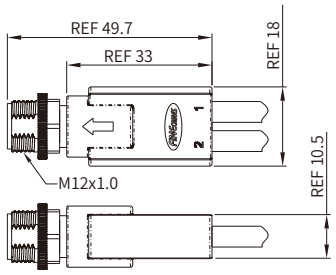
| Pin No. | | | | Profibus |
|---|---|---|---|---|
| Pin 1 | BN | BN | BN | |
| Pin 2 | | WH | WH | GN |
| Pin 3 | BU | BU | BU | |
| Pin 4 | BK | BK | BK | RD |
| Pin 5 | | | GY | |
| Shell | Braid | | | |

# M12 B-coding (Profibus)

## M12 B-coding Straight Connector, Molded 2 Cables

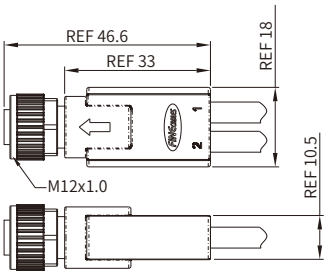
Male

RoHS




Female

RoHS




## Specifications

| Contacts | 3 | 4 | 5 |
|---|---|---|---|
| Pin layout(Male) | | | |
| Pin layout(Female) | | | |
| Standard | IEC 61076-2-101 | | |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | | |
| Connector insert | TPU | | |
| Connector contacts | Brass with gold plated | | |
| Connector overmold | TPU | | |
| Coupling nut/screw | Zinc alloy with nickel plated | | |
| Seal/O-ring(of Female) | FKM | | |
| Insulation resistance | ⩾100MΩ | | |
| Contact resistance | ⩽5mΩ | | |
| Shielding | Unavailable/Available | | |
| IP rating | IP67, IP68, IP69K in locked condition | | |
| Mating endurance | >500 cycles | | |
| Rated current | 4 A | | |
| Rated voltage | 250V AC/DC | | 60V AC/DC |
| Wire gauge | 0.34 $mm^2$ ( AWG 22) | | |

## Part Number

| Pins | Male | | | Female | | |
|---|---|---|---|---|---|---|
| | Unshielded | Shielding | | Unshielded | Shielding | |
| 3 | MT-018 | MST-015 | Customized cable | MT-032 | MST-018 | Customized cable |
| 4 | MT-019 | MST-016 | | MT-033 | MST-019 | |
| 5 | MT-020 | MST-017 | | MT-034 | MST-020 | |

## Default wire colors

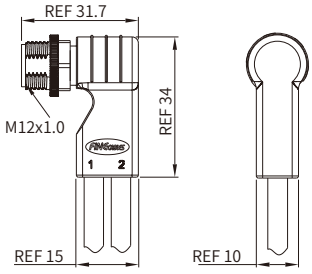
| Pin No. | | | | Profibus |
|---|---|---|---|---|
| Pin 1 | BN | BN | BN | |
| Pin 2 | | WH | WH | GN |
| Pin 3 | BU | BU | BU | |
| Pin 4 | BK | BK | BK | RD |
| Pin 5 | | | GY | |

# M12 B-coding (Profibus)

## M12 B-coding Angled Connector, Molded 2 Cables

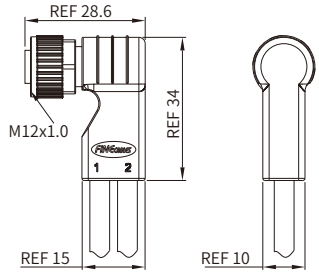
Male

RoHS




Female

RoHS




## Specifications

| Contacts | 3 | 4 | 5 |
|---|---|---|---|
| Pin layout(Male) | | | |
| Pin layout(Female) | | | |
| Standard | IEC 61076-2-101 | | |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | | |
| Connector insert | TPU | | |
| Connector contacts | Brass with gold plated | | |
| Connector overmold | TPU | | |
| Coupling nut/screw | Zinc alloy with nickel plated | | |
| Seal/O-ring(of Female) | FKM | | |
| Insulation resistance | ⩾100MΩ | | |
| Contact resistance | ⩽5mΩ | | |
| Shielding | Unavailable/Available | | |
| IP rating | IP67, IP68, IP69K in locked condition | | |
| Mating endurance | >500 cycles | | |
| Rated current | 4 A | | |
| Rated voltage | 250V AC/DC | | 60V AC/DC |
| Wire gauge | 0.34 $mm^2$ (AWG 22) | | |

## Part Number

| Pins | Male | | | Female | | |
|---|---|---|---|---|---|---|
| | Unshielded | Shielding | | Unshielded | Shielding | |
| 3 | MT-025 | MST-021 | Customized cable | MT-039 | MST-024 | Customized cable |
| 4 | MT-026 | MST-022 | | MT-040 | MST-025 | |
| 5 | MT-027 | MST-023 | | MT-041 | MST-026 | |

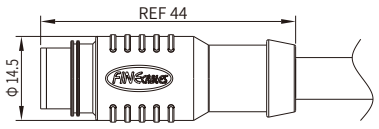
## Default wire colors

| Pin No. | | | | Profibus |
|---|---|---|---|---|
| Pin 1 | BN | BN | BN | |
| Pin 2 | | WH | WH | GN |
| Pin 3 | BU | BU | BU | |
| Pin 4 | BK | BK | BK | RD |
| Pin 5 | | | GY | |

# M12 B-coding (Profibus)

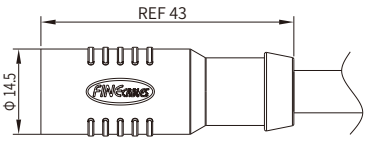
## M12 B-coding Straight Connector, Molded Cable, Snap-in Type

Male




CE RoHS IP68

Female




CE RoHS IP68

## Specifications

| Contacts | 3 | 4 | 5 |
|---|---|---|---|
| Pin layout(Male) | | | |
| Pin layout(Female) | | | |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | | |
| Connector insert | TPU | | |
| Connector contacts | Brass with gold plated | | |
| Connector overmold | TPU | | |
| Insulation resistance | ⩾100MΩ | | |
| Contact resistance | ⩽5mΩ | | |
| Shielding | Unavailable | | |
| IP rating | IP65 in locked condition | | |
| Mating endurance | >500 cycles | | |
| Rated current | 4 A | | |
| Rated voltage | 250V AC/DC | | 60V AC/DC |
| Wire gauge | 0.34mm$^2$(AWG22) | | |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 3 | 1m | MA12MBI03ST10CB34 | MA12MBI03ST10RB34 | MA12FBI03ST10CB34 | MA12FBI03ST10RB34 |
| | 3m | MA12MBI03ST30CB34 | MA12MBI03ST30RB34 | MA12FBI03ST30CB34 | MA12FBI03ST30RB34 |
| | 5m | MA12MBI03ST50CB34 | MA12MBI03ST50RB34 | MA12FBI03ST50CB34 | MA12FBI03ST50RB34 |
| 4 | 1m | MA12MBI04ST10CB34 | MA12MBI04ST10RB34 | MA12FBI04ST10CB34 | MA12FBI04ST10RB34 |
| | 3m | MA12MBI04ST30CB34 | MA12MBI04ST30RB34 | MA12FBI04ST30CB34 | MA12FBI04ST30RB34 |
| | 5m | MA12MBI04ST50CB34 | MA12MBI04ST50RB34 | MA12FBI04ST50CB34 | MA12FBI04ST50RB34 |
| 5 | 1m | MA12MBI05ST10CB34 | MA12MBI05ST10RB34 | MA12FBI05ST10CB34 | MA12FBI05ST10RB34 |
| | 3m | MA12MBI05ST30CB34 | MA12MBI05ST30RB34 | MA12FBI05ST30CB34 | MA12FBI05ST30RB34 |
| | 5m | MA12MBI05ST50CB34 | MA12MBI05ST50RB34 | MA12FBI05ST50CB34 | MA12FBI05ST50RB34 |

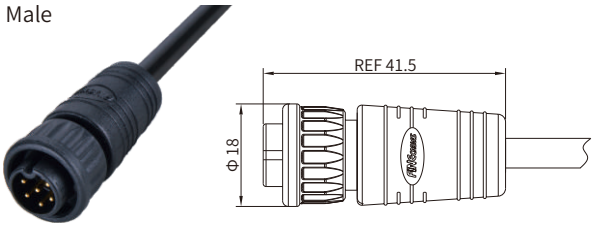
## Default wire colors

| Pin No. | | | | Profibus |
|---|---|---|---|---|
| Pin 1 | BN | BN | BN | |
| Pin 2 | | WH | WH | GN |
| Pin 3 | BU | BU | BU | |
| Pin 4 | BK | BK | BK | RD |
| Pin 5 | | | GY | |

# M12 Quick-lock

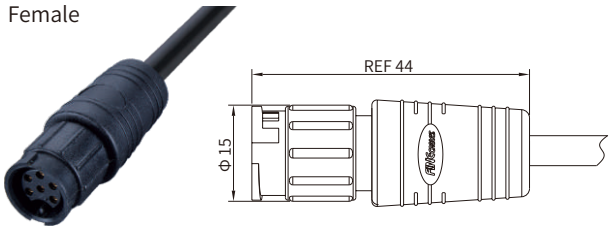
## M12 Straight Molded Cable, Quick-lock Type, With Fix-cap

Male




CE RoHS

Female




CE RoHS

## Specifications

| Contacts | 4 | 6 |
|---|---|---|
| Pin layout(Male) | | |
| Pin layout(Female) | | |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | |
| Connector insert | PA+GF | |
| Connector contacts | Brass with gold plated | |
| Quick-lock Fix-cap(of Male) | PA+GF | |
| Seal/O-ring(of Male) | FKM | |
| Insulation resistance | ⩾100MΩ | |
| Contact resistance | ⩽5mΩ | |
| Shielding | Unavailable | |
| IP rating | IP67, IP68 in locked condition | |
| Mating endurance | >500 cycles | |
| Rated current | 4 A | |
| Rated voltage | 250V AC/ DC | 60V AC/DC |
| Wire gauge | 0.34 $mm^2$ (AWG 22) | |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 4 | 1m | MA12MAQ04ST10CB34 | MA12MAQ04ST10RB34 | MA12FAQ04ST10CB34 | MA12FAQ04ST10RB34 |
| | 3m | MA12MAQ04ST30CB34 | MA12MAQ04ST30RB34 | MA12FAQ04ST30CB34 | MA12FAQ04ST30RB34 |
| | 5m | MA12MAQ04ST50CB34 | MA12MAQ04ST50RB34 | MA12FAQ04ST50CB34 | MA12FAQ04ST50RB34 |
| 6 | 1m | MA12MAQ06ST10CB34 | MA12MAQ06ST10RB34 | MA12FAQ06ST10CB34 | MA12FAQ06ST10RB34 |
| | 3m | MA12MAQ06ST30CB34 | MA12MAQ06ST30RB34 | MA12FAQ06ST30CB34 | MA12FAQ06ST30RB34 |
| | 5m | MA12MAQ06ST50CB34 | MA12MAQ06ST50RB34 | MA12FAQ06ST50CB34 | MA12FAQ06ST50RB34 |

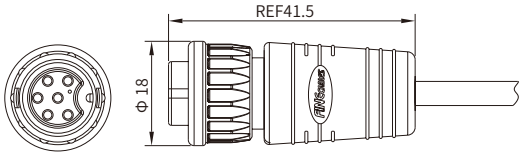
## Default wire colors

| Pin No. | | |
|---|---|---|
| Pin 1 | BN | BN |
| Pin 2 | WH | WH |
| Pin 3 | BU | BU |
| Pin 4 | BK | BK |
| Pin 5 | | GY |
| Pin 6 | | RK |

# M12 Quick-lock

## M12 Straight Molded Cable, Quick-lock Type, Reversed Polarity, With Fix-cap

Female




CE RoHS IP68

## Specifications

| Contacts | 4 | 6 |
|---|---|---|
| Pin layout(Female) | | |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | |
| Connector insert | PA+GF | |
| Connector contacts | Brass with gold plated | |
| Quick-lock Fix-cap | PA+GF | |
| Seal/O-ring | FKM | |
| Insulation resistance | ⩾100MΩ | |
| Contact resistance | ⩽5mΩ | |
| Shielding | Unavailable | |
| IP rating | IP65, IP67, IP68 in locked condition | |
| Mating endurance | >500 cycles | |
| Rated current | 4 A | |
| Rated voltage | 250V AC/ DC | 60V AC/DC |
| Wire gauge | 0.34 $mm^2$ (AWG 22) | |

## Part Number

| Pins | Cable length | PVC | PUR |
|---|---|---|---|
| 4 | 1m | MA12FRAQ04ST10CB34 | MA12FRAQ04ST10RB34 |
| | 3m | MA12FRAQ04ST30CB34 | MA12FRAQ04ST30RB34 |
| | 5m | MA12FRAQ04ST50CB34 | MA12FRAQ04ST50RB34 |
| 6 | 1m | MA12FRAQ06ST10CB34 | MA12FRAQ06ST10RB34 |
| | 3m | MA12FRAQ06ST30CB34 | MA12FRAQ06ST30RB34 |
| | 5m | MA12FRAQ06ST50CB34 | MA12FRAQ06ST50RB34 |

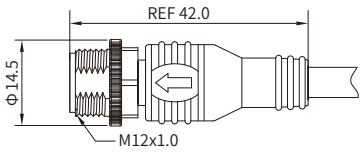
## Default wire colors

| Pin No. | | |
|---|---|---|
| Pin 1 | BN | BN |
| Pin 2 | WH | WH |
| Pin 3 | BU | BU |
| Pin 4 | BK | BK |
| Pin 5 | | GY |
| Pin 6 | | RK |

# M12 C-coding (Power)

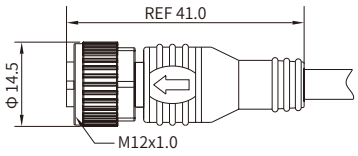
## M12 C-coding Straight Connector, Molded Cable

Male




CE RoHS IP68

Female




CE RoHS IP68

## Specifications

| Contacts | 3 (2+PE) | 4 (3+PE) | 5 (4+PE) | 6 (5+PE) |
|---|---|---|---|---|
| Certification | cULus LISTED CYJV/CYJV7. E321413 | | cULus CYJV2(CYJV8).E321413 | |
| Pin layout(Male) | | | | |
| Pin layout(Female) | | | | |
| Standard | IEC 61076-2-101 | | | |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | | | |
| Connector insert | TPU | | | |
| Connector contacts | Brass with gold plated | | | |
| Connector overmold | TPU | | | |
| Coupling nut/screw | Zinc alloy with nickel plated | | | |
| Seal/O-ring(of Female) | FKM | | | |
| Insulation resistance | ⩾100MΩ | | | |
| Contact resistance | ⩽5mΩ | | | |
| Shielding | Unavailable | | | |
| IP rating | IP67, IP68, IP69K in locked condition | | | |
| Mating endurance | >500 cycles | | | |
| Rated current | 4 A | | 2 A | |
| Rated voltage | 250V AC/DC | | 60V AC/DC | 30V AC/DC |
| Wire gauge | 0.34 $mm^2$ (AWG 22) | | 0.25 $mm^2$ (AWG 24) | |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 3 (2+PE) | 1m | MA12MCHD03ST10CB34 | MA12MCHD03ST10RB34 | MA12FCHD03ST10CB34 | MA12FCHD03ST10RB34 |
| | 3m | MA12MCHD03ST30CB34 | MA12MCHD03ST30RB34 | MA12FCHD03ST30CB34 | MA12FCHD03ST30RB34 |
| | 5m | MA12MCHD03ST50CB34 | MA12MCHD03ST50RB34 | MA12FCHD03ST50CB34 | MA12FCHD03ST50RB34 |
| 4 (3+PE) | 1m | MA12MCHD04ST10CB34 | MA12MCHD04ST10RB34 | MA12FCHD04ST10CB34 | MA12FCHD04ST10RB34 |
| | 3m | MA12MCHD04ST30CB34 | MA12MCHD04ST30RB34 | MA12FCHD04ST30CB34 | MA12FCHD04ST30RB34 |
| | 5m | MA12MCHD04ST50CB34 | MA12MCHD04ST50RB34 | MA12FCHD04ST50CB34 | MA12FCHD04ST50RB34 |
| 5 (4+PE) | 1m | MA12MCHD05ST10CB25 | MA12MCHD05ST10RB25 | MA12FCHD05ST10CB25 | MA12FCHD05ST10RB25 |
| | 3m | MA12MCHD05ST30CB25 | MA12MCHD05ST30RB25 | MA12FCHD05ST30CB25 | MA12FCHD05ST30RB25 |
| | 5m | MA12MCHD05ST50CB25 | MA12MCHD05ST50RB25 | MA12FCHD05ST50CB25 | MA12FCHD05ST50RB25 |
| 6 (5+PE) | 1m | MA12MCHD06ST10CB25 | MA12MCHD06ST10RB25 | MA12FCHD06ST10CB25 | MA12FCHD06ST10RB25 |
| | 3m | MA12MCHD06ST30CB25 | MA12MCHD06ST30RB25 | MA12FCHD06ST30CB25 | MA12FCHD06ST30RB25 |
| | 5m | MA12MCHD06ST50CB25 | MA12MCHD06ST50RB25 | MA12FCHD06ST50CB25 | MA12FCHD06ST50RB25 |

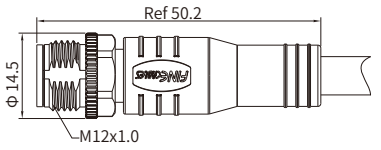
## Default wire colors

| Pin No. | | | | |
|---|---|---|---|---|
| Pin 1 | BN | BN | BN | BN |
| Pin 2 | BU | WH | WH | WH |
| Pin 3 | BK | BU | BU | BU |
| Pin 4 | | BK | BK | BK |
| Pin 5 | | | GY | GY |
| Pin 6 | | | | RK |

# M12 C-coding (Power)

## M12 C-coding Straight Connector, Molded Cable, Shielded

Male

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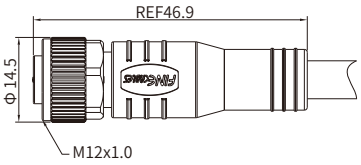
Female




CE RoHS

## Specifications

| Contacts | 3 (2+PE) | 4 (3+PE) | 5 (4+PE) | 6 (5+PE) |
|---|---|---|---|---|
| Certification | cULus LISTED CYJV/CYJV7. E321413 | | cULus CYJV2(CYJV8).E321413 | |
| Pin layout(Male) | | | | |
| Pin layout(Female) | | | | |
| Standard | IEC 61076-2-101 | | | |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | | | |
| Connector insert | TPU | | | |
| Connector contacts | Brass with gold plated | | | |
| Connector overmold | TPU | | | |
| Coupling nut/screw | Zinc alloy with nickel plated | | | |
| Seal/O-ring(of Female) | FKM | | | |
| Insulation resistance | ⩾100MΩ | | | |
| Contact resistance | ⩽5mΩ | | | |
| Shielding | Available | | | |
| IP rating | IP67, IP68, IP69K in locked condition | | | |
| Mating endurance | >500 cycles | | | |
| Rated current | 4 A | | 2 A | |
| Rated voltage | 250V AC/DC | | 60V AC/DC | 30V AC/DC |
| Wire gauge | 0.34 $mm^2$ (AWG 22) | | 0.25 $mm^2$ (AWG 24) | |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 3 (2+PE) | 1m | MA12MSCHD03ST10CB34 | MA12MSCHD03ST10RB34 | MA12FSCHD03ST10CB34 | MA12FSCHD03ST10RB34 |
| | 3m | MA12MSCHD03ST30CB34 | MA12MSCHD03ST30RB34 | MA12FSCHD03ST30CB34 | MA12FSCHD03ST30RB34 |
| | 5m | MA12MSCHD03ST50CB34 | MA12MSCHD03ST50RB34 | MA12FSCHD03ST50CB34 | MA12FSCHD03ST50RB34 |
| 4 (3+PE) | 1m | MA12MSCHD04ST10CB34 | MA12MSCHD04ST10RB34 | MA12FSCHD04ST10CB34 | MA12FSCHD04ST10RB34 |
| | 3m | MA12MSCHD04ST30CB34 | MA12MSCHD04ST30RB34 | MA12FSCHD04ST30CB34 | MA12FSCHD04ST30RB34 |
| | 5m | MA12MSCHD04ST50CB34 | MA12MSCHD04ST50RB34 | MA12FSCHD04ST50CB34 | MA12FSCHD04ST50RB34 |
| 5 (4+PE) | 1m | MA12MSCHD05ST10CB25 | MA12MSCHD05ST10RB25 | MA12FSCHD05ST10CB25 | MA12FSCHD05ST10RB25 |
| | 3m | MA12MSCHD05ST30CB25 | MA12MSCHD05ST30RB25 | MA12FSCHD05ST30CB25 | MA12FSCHD05ST30RB25 |
| | 5m | MA12MSCHD05ST50CB25 | MA12MSCHD05ST50RB25 | MA12FSCHD05ST50CB25 | MA12FSCHD05ST50RB25 |
| 6 (5+PE) | 1m | MA12MSCHD06ST10CB25 | MA12MSCHD06ST10RB25 | MA12FSCHD06ST10CB25 | MA12FSCHD06ST10RB25 |
| | 3m | MA12MSCHD06ST30CB25 | MA12MSCHD06ST30RB25 | MA12FSCHD06ST30CB25 | MA12FSCHD06ST30RB25 |
| | 5m | MA12MSCHD06ST50CB25 | MA12MSCHD06ST50RB25 | MA12FSCHD06ST50CB25 | MA12FSCHD06ST50RB25 |

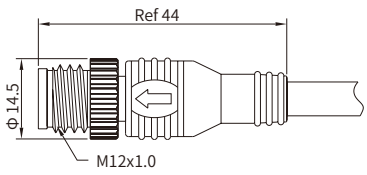
## Default wire colors

| Pin No. | | | | |
|---|---|---|---|---|
| Pin 1 | BN | BN | BN | BN |
| Pin 2 | BU | WH | WH | WH |
| Pin 3 | BK | BU | BU | BU |
| Pin 4 | | BK | BK | BK |
| Pin 5 | | | GY | GY |
| Pin 6 | | | | RK |
| Shell | Braid | | | |

# M12 C-coding (Power)

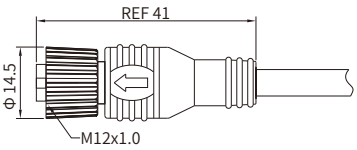
## M12 C-coding Straight Connector, Molded Cable, Plastic

Male




CE RoHS IP68

Female




CE RoHS IP68

## Specifications

| Contacts | 3 (2+PE) | 4 (3+PE) | 5 (4+PE) | 6 (5+PE) |
|---|---|---|---|---|
| Certification | cULus LISTED CYJV/CYJV7. E321413 | | cULus CYJV2(CYJV8).E321413 | |
| Pin layout(Male) | | | | |
| Pin layout(Female) | | | | |
| Standard | IEC 61076-2-101 | | | |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | | | |
| Connector insert | TPU | | | |
| Connector contacts | Brass with gold plated | | | |
| Connector overmold | TPU | | | |
| Coupling nut/screw | PA+GF | | | |
| Seal/O-ring(of Female) | FKM | | | |
| Insulation resistance | ⩾100MΩ | | | |
| Contact resistance | ⩽5mΩ | | | |
| Shielding | Unavailable | | | |
| IP rating | IP67, IP68 in locked condition | | | |
| Mating endurance | >500 cycles | | | |
| Rated current | 4 A | | 2 A | |
| Rated voltage | 250V AC/DC | | 60V AC/DC | 30V AC/DC |
| Wire gauge | 0.34 $mm^2$ (AWG 22) | | 0.25 $mm^2$ (AWG 24) | |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 3 (2+PE) | 1m | MA12MCP03ST10CB34 | MA12MCP03ST10RB34 | MA12FCP03ST10CB34 | MA12FCP03ST10RB34 |
| | 3m | MA12MCP03ST30CB34 | MA12MCP03ST30RB34 | MA12FCP03ST30CB34 | MA12FCP03ST30RB34 |
| | 5m | MA12MCP03ST50CB34 | MA12MCP03ST50RB34 | MA12FCP03ST50CB34 | MA12FCP03ST50RB34 |
| 4 (3+PE) | 1m | MA12MCP04ST10CB34 | MA12MCP04ST10RB34 | MA12FCP04ST10CB34 | MA12FCP04ST10RB34 |
| | 3m | MA12MCP04ST30CB34 | MA12MCP04ST30RB34 | MA12FCP04ST30CB34 | MA12FCP04ST30RB34 |
| | 5m | MA12MCP04ST50CB34 | MA12MCP04ST50RB34 | MA12FCP04ST50CB34 | MA12FCP04ST50RB34 |
| 5 (4+PE) | 1m | MA12MCP05ST10CB25 | MA12MCP05ST10RB25 | MA12FCP05ST10CB25 | MA12FCP05ST10RB25 |
| | 3m | MA12MCP05ST30CB25 | MA12MCP05ST30RB25 | MA12FCP05ST30CB25 | MA12FCP05ST30RB25 |
| | 5m | MA12MCP05ST50CB25 | MA12MCP05ST50RB25 | MA12FCP05ST50CB25 | MA12FCP05ST50RB25 |
| 6 (5+PE) | 1m | MA12MCP06ST10CB25 | MA12MCP06ST10RB25 | MA12FCP06ST10CB25 | MA12FCP06ST10RB25 |
| | 3m | MA12MCP06ST30CB25 | MA12MCP06ST30RB25 | MA12FCP06ST30CB25 | MA12FCP06ST30RB25 |
| | 5m | MA12MCP06ST50CB25 | MA12MCP06ST50RB25 | MA12FCP06ST50CB25 | MA12FCP06ST50RB25 |

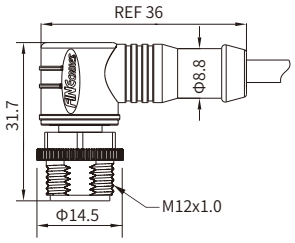
## Default wire colors

| Pin No. | | | | |
|---|---|---|---|---|
| Pin 1 | BN | BN | BN | BN |
| Pin 2 | BU | WH | WH | WH |
| Pin 3 | BK | BU | BU | BU |
| Pin 4 | | BK | BK | BK |
| Pin 5 | | | GY | GY |
| Pin 6 | | | | RK |

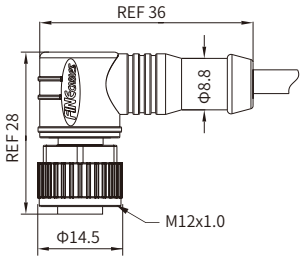
# M12 C-coding (Power)

## M12 C-coding Angled Connector, Molded Cable

Male




Female




## Specifications

| Contacts | 3 (2+PE) | 4 (3+PE) | 5 (4+PE) | 6 (5+PE) |
|---|---|---|---|---|
| Certification | cULus LISTED CYJV/CYJV7. E321413 | | cULus CYJV2(CYJV8).E321413 | |
| Pin layout(Male) | | | | |
| Pin layout(Female) | | | | |
| Standard | IEC 61076-2-101 | | | |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | | | |
| Connector insert | TPU | | | |
| Connector contacts | Brass with gold plated | | | |
| Connector overmold | TPU | | | |
| Coupling nut/screw | Zinc alloy with nickel plated | | | |
| Seal/O-ring(of Female) | FKM | | | |
| Insulation resistance | ⩾100MΩ | | | |
| Contact resistance | ⩽5mΩ | | | |
| Shielding | Unavailable | | | |
| IP rating | IP67, IP68, IP69K in locked condition | | | |
| Mating endurance | >500 cycles | | | |
| Rated current | 4 A | | 2 A | |
| Rated voltage | 250V AC/DC | | 60V AC/DC | 30V AC/DC |
| Wire gauge | 0.34 mm2 (AWG 22) | | 0.25 $mm^2$ (AWG 24) | |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 3 (2+PE) | 1m | MA12MCHD03RA10CB34 | MA12MCHD03RA10RB34 | MA12FCHD03RA10CB34 | MA12FCHD03RA10RB34 |
| | 3m | MA12MCHD03RA30CB34 | MA12MCHD03RA30RB34 | MA12FCHD03RA30CB34 | MA12FCHD03RA30RB34 |
| | 5m | MA12MCHD03RA50CB34 | MA12MCHD03RA50RB34 | MA12FCHD03RA50CB34 | MA12FCHD03RA50RB34 |
| 4 (3+PE) | 1m | MA12MCHD04RA10CB34 | MA12MCHD04RA10RB34 | MA12FCHD04RA10CB34 | MA12FCHD04RA10RB34 |
| | 3m | MA12MCHD04RA30CB34 | MA12MCHD04RA30RB34 | MA12FCHD04RA30CB34 | MA12FCHD04RA30RB34 |
| | 5m | MA12MCHD04RA50CB34 | MA12MCHD04RA50RB34 | MA12FCHD04RA50CB34 | MA12FCHD04RA50RB34 |
| 5 (4+PE) | 1m | MA12MCHD05RA10CB25 | MA12MCHD05RA10RB25 | MA12FCHD05RA10CB25 | MA12FCHD05RA10RB25 |
| | 3m | MA12MCHD05RA30CB25 | MA12MCHD05RA30RB25 | MA12FCHD05RA30CB25 | MA12FCHD05RA30RB25 |
| | 5m | MA12MCHD05RA50CB25 | MA12MCHD05RA50RB25 | MA12FCHD05RA50CB25 | MA12FCHD05RA50RB25 |
| 6 (5+PE) | 1m | MA12MCHD06RA10CB25 | MA12MCHD06RA10RB25 | MA12FCHD06RA10CB25 | MA12FCHD06RA10RB25 |
| | 3m | MA12MCHD06RA30CB25 | MA12MCHD06RA30RB25 | MA12FCHD06RA30CB25 | MA12FCHD06RA30RB25 |
| | 5m | MA12MCHD06RA50CB25 | MA12MCHD06RA50RB25 | MA12FCHD06RA50CB25 | MA12FCHD06RA50RB25 |

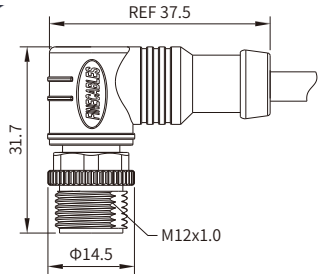
## Default wire colors

| Pin No. | | | | |
|---|---|---|---|---|
| Pin 1 | BN | BN | BN | BN |
| Pin 2 | BU | WH | WH | WH |
| Pin 3 | BK | BU | BU | BU |
| Pin 4 | | BK | BK | BK |
| Pin 5 | | | GY | GY |
| Pin 6 | | | | RK |

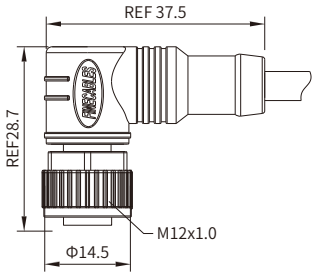
# M12 C-coding (Power)

## M12 C-coding Angled Connector, Molded Cable, Shielded

Male




Female




## Specifications

| Contacts | 3 (2+PE) | 4 (3+PE) | 5 (4+PE) | 6 (5+PE) |
|---|---|---|---|---|
| Certification | | CYJV/CYJV7. E321413 | CYJV2(CYJV8).E321413 | |
| Pin layout(Male) | | | | |
| Pin layout(Female) | | | | |
| Standard | IEC 61076-2-101 | | | |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | | | |
| Connector insert | PA | | | |
| Connector contacts | Brass with gold plated | | | |
| Connector overmold | TPU | | | |
| Coupling nut/screw | Zinc alloy with nickel plated | | | |
| Seal/O-ring(of Female) | FKM | | | |
| Insulation resistance | ⩾100MΩ | | | |
| Contact resistance | ⩽5mΩ | | | |
| Shielding | Available | | | |
| IP rating | IP67, IP68, IP69K in locked condition | | | |
| Mating endurance | >500 cycles | | | |
| Rated current | 4 A | | 2 A | |
| Rated voltage | 250V AC/DC | | 60V AC/DC | 30V AC/DC |
| Wire gauge | 0.34 $mm^2$ (AWG 22) | | 0.25 $mm^2$ (AWG 24) | |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 3 (2+PE) | 1m | MA12MSCHD03RA10CB34 | MA12MSCHD03RA10RB34 | MA12FSCHD03RA10CB34 | MA12FSCHD03RA10RB34 |
| | 3m | MA12MSCHD03RA30CB34 | MA12MSCHD03RA30RB34 | MA12FSCHD03RA30CB34 | MA12FSCHD03RA30RB34 |
| | 5m | MA12MSCHD03RA50CB34 | MA12MSCHD03RA50RB34 | MA12FSCHD03RA50CB34 | MA12FSCHD03RA50RB34 |
| 4 (3+PE) | 1m | MA12MSCHD04RA10CB34 | MA12MSCHD04RA10RB34 | MA12FSCHD04RA10CB34 | MA12FSCHD04RA10RB34 |
| | 3m | MA12MSCHD04RA30CB34 | MA12MSCHD04RA30RB34 | MA12FSCHD04RA30CB34 | MA12FSCHD04RA30RB34 |
| | 5m | MA12MSCHD04RA50CB34 | MA12MSCHD04RA50RB34 | MA12FSCHD04RA50CB34 | MA12FSCHD04RA50RB34 |
| 5 (4+PE) | 1m | MA12MSCHD05RA10CB25 | MA12MSCHD05RA10RB25 | MA12FSCHD05RA10CB25 | MA12FSCHD05RA10RB25 |
| | 3m | MA12MSCHD05RA30CB25 | MA12MSCHD05RA30RB25 | MA12FSCHD05RA30CB25 | MA12FSCHD05RA30RB25 |
| | 5m | MA12MSCHD05RA50CB25 | MA12MSCHD05RA50RB25 | MA12FSCHD05RA50CB25 | MA12FSCHD05RA50RB25 |
| 6 (5+PE) | 1m | MA12MSCHD06RA10CB25 | MA12MSCHD06RA10RB25 | MA12FSCHD06RA10CB25 | MA12FSCHD06RA10RB25 |
| | 3m | MA12MSCHD06RA30CB25 | MA12MSCHD06RA30RB25 | MA12FSCHD06RA30CB25 | MA12FSCHD06RA30RB25 |
| | 5m | MA12MSCHD06RA50CB25 | MA12MSCHD06RA50RB25 | MA12FSCHD06RA50CB25 | MA12FSCHD06RA50RB25 |

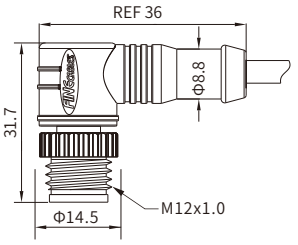
## Default wire colors

| Pin No. | | | | |
|---|---|---|---|---|
| Pin 1 | BN | BN | BN | BN |
| Pin 2 | BU | WH | WH | WH |
| Pin 3 | BK | BU | BU | BU |
| Pin 4 | | BK | BK | BK |
| Pin 5 | | | GY | GY |
| Pin 6 | | | | RK |
| Shell | Braid | | | |

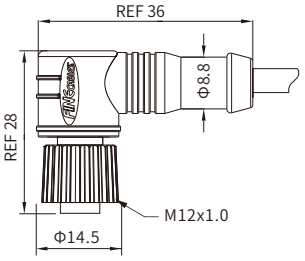
# M12 C-coding (Power)

## M12 C-coding Angled Connector, Molded Cable, Plastic

Male




Female




## Specifications

| Contacts | 3 (2+PE) | 4 (3+PE) | 5 (4+PE) | 6 (5+PE) |
|---|---|---|---|---|
| Certification | | CYJV/CYJV7. E321413 | CYJV2(CYJV8).E321413 | |
| Pin layout(Male) | | | | |
| Pin layout(Female) | | | | |
| Standard | IEC 61076-2-101 | | | |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | | | |
| Connector insert | TPU | | | |
| Connector contacts | Brass with gold plated | | | |
| Connector overmold | TPU | | | |
| Coupling nut/screw | PA+GF | | | |
| Seal/O-ring(of Female) | FKM | | | |
| Insulation resistance | ⩾100MΩ | | | |
| Contact resistance | ⩽5mΩ | | | |
| Shielding | Unavailable | | | |
| IP rating | IP67, IP68 in locked condition | | | |
| Mating endurance | >500 cycles | | | |
| Rated current | 4 A | | 2 A | |
| Rated voltage | 250V AC/DC | | 60V AC/DC | 30V AC/DC |
| Wire gauge | 0.34 $mm^2$ (AWG 22) | | 0.25 $mm^2$ (AWG 24) | |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 3 (2+PE) | 1m | MA12MCP03RA-10CB34 | MA12MCP03RA10RB34 | MA12FCP03RA10CB34 | MA12FCP03RA10RB34 |
| | 3m | MA12MCP03RA-30CB34 | MA12MCP03RA30RB34 | MA12FCP03RA30CB34 | MA12FCP03RA30RB34 |
| | 5m | MA12MCP03RA-50CB34 | MA12MCP03RA50RB34 | MA12FCP03RA50CB34 | MA12FCP03RA50RB34 |
| 4 (3+PE) | 1m | MA12MCP04RA-10CB34 | MA12MCP04RA10RB34 | MA12FCP04RA10CB34 | MA12FCP04RA10RB34 |
| | 3m | MA12MCP04RA-30CB34 | MA12MCP04RA30RB34 | MA12FCP04RA30CB34 | MA12FCP04RA30RB34 |
| | 5m | MA12MCP04RA-50CB34 | MA12MCP04RA50RB34 | MA12FCP04RA50CB34 | MA12FCP04RA50RB34 |
| 5 (4+PE) | 1m | MA12MCP05RA-10CB25 | MA12MCP05RA10RB25 | MA12FCP05RA10CB25 | MA12FCP05RA10RB25 |
| | 3m | MA12MCP05RA-30CB25 | MA12MCP05RA30RB25 | MA12FCP05RA30CB25 | MA12FCP05RA30RB25 |
| | 5m | MA12MCP05RA-50CB25 | MA12MCP05RA50RB25 | MA12FCP05RA50CB25 | MA12FCP05RA50RB25 |
| 6 (5+PE) | 1m | MA12MCP06RA-10CB25 | MA12MCP06RA10RB25 | MA12FCP06RA10CB25 | MA12FCP06RA10RB25 |
| | 3m | MA12MCP06RA-30CB25 | MA12MCP06RA30RB25 | MA12FCP06RA30CB25 | MA12FCP06RA30RB25 |
| | 5m | MA12MCP06RA-50CB25 | MA12MCP06RA50RB25 | MA12FCP06RA50CB25 | MA12FCP06RA50RB25 |

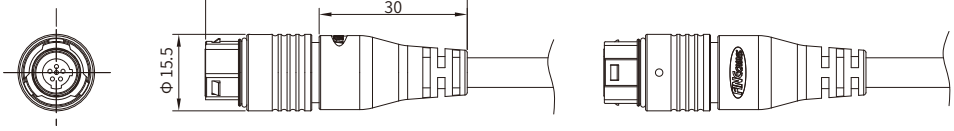
## Default wire colors

| Pin No. | | | | |
|---|---|---|---|---|
| Pin 1 | BN | BN | BN | BN |
| Pin 2 | BU | WH | WH | WH |
| Pin 3 | BK | BU | BU | BU |
| Pin 4 | | BK | BK | BK |
| Pin 5 | | | GY | GY |
| Pin 6 | | | | RK |

# M12 C-coding (Power)

## M12 C-coding Push-Pull Male Straight Connector, Molded Cable, Shielded

Male




RoHS

## Specifications

| Contacts | 3 (2+PE) | 4 (3+PE) | 5 (4+PE) | 6 (5+PE) |
|---|---|---|---|---|
| Pin layout(Male) | | | | |
| Standard | IEC 61076-2-012-2020 | | | |
| Ambient temperature | -25 °C ~ +85°C | | | |
| Insulator | PA | | | |
| Connector contacts | Brass with gold plated | | | |
| Out shell | Brass with Black nickel plated | | | |
| Insulator resistance | ⩾100MΩ | | | |
| IP rating | IP 67(Mated) | | | |
| Shielding effciency | at 10MHz>75dB/at 1GHz>40dB | | | |
| Salt spray corrosion test | >96h | | | |
| Endurance | ＞500 cycles | | | |
| Rated current | 4 A | | 2 A | |
| Voltage | 250V AC/DC | | 60V AC/DC | 30V AC/DC |
| Wire gauge / size | 0.34 mm² (AWG 22) | | 0.25 mm² (AWG 24) | |

## Part Number

| Pins | Cable length | Male | |
|---|---|---|---|
| | | PVC | PUR |
| 3 (2+PE) | 1m | MA12MPSCPP03ST10CG34 | MA12MPSCPP03ST10RG34 |
| | 3m | MA12MPSCPP03ST30CG34 | MA12MPSCPP03ST30RG34 |
| | 5m | MA12MPSCPP03ST50CG34 | MA12MPSCPP03ST50RG34 |
| 4 (3+PE) | 1m | MA12MPSCPP04ST10CG34 | MA12MPSCPP04ST10RG34 |
| | 3m | MA12MPSCPP04ST30CG34 | MA12MPSCPP04ST30RG34 |
| | 5m | MA12MPSCPP04ST50CG34 | MA12MPSCPP04ST50RG34 |
| 5 (4+PE) | 1m | MA12MPSCPP05ST10CG25 | MA12MPSCPP05ST10RG25 |
| | 3m | MA12MPSCPP05ST30CG25 | MA12MPSCPP05ST30RG25 |
| | 5m | MA12MPSCPP05ST50CG25 | MA12MPSCPP05ST50RG25 |
| 6 (5+PE) | 1m | MA12MPSCPP05ST10CG25 | MA12MPSCPP05ST10RG25 |
| | 3m | MA12MPSCPP05ST30CG25 | MA12MPSCPP05ST30RG25 |
| | 5m | MA12MPSCPP05ST50CG25 | MA12MPSCPP05ST50RG25 |

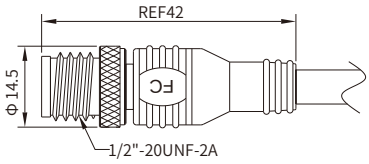
## Default wire colors

| Pin No. | | | | |
|---|---|---|---|---|
| Pin 1 | BN | BN | BN | BN |
| Pin 2 | BU | WH | WH | WH |
| Pin 3 | BK | BU | BU | BU |
| Pin 4 | | BK | BK | BK |
| Pin 5 | | | GY | GY |
| Pin 6 | | | | RK |
| Shell | Braid | | | |

# Micro-change 1/2" (Power)

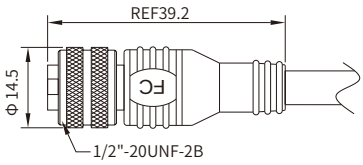
## Micro-change 1/2"-20UNF Straight Connector, Molded Cable

Male




CE RoHS

Female




CE RoHS

## Specifications

| Contacts | 2 | 3 (2+PE) | 4 (3+PE) | 5 (4+PE) | 6 (5+PE) |
|---|---|---|---|---|---|
| Pin layout(Male) | | | | | |
| Pin layout(Female) | | | | | |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | | | | |
| Connector insert | TPU; PA+GF | | | | |
| Connector contacts | Brass with gold plated | | | | |
| Connector overmold | TPU | | | | |
| Coupling nut/screw | Brass with nickel plated | | | | |
| Seal/O-ring(of Female) | FKM | | | | |
| Insulation resistance | ⩾100MΩ | | | | |
| Contact resistance | ⩽5mΩ | | | | |
| Shielding | Unavailable | | | | |
| IP rating | IP67, IP68, IP69K in locked condition | | | | |
| Mating endurance | >500 cycles | | | | |
| Rated current | 4 A | | | 2 A | |
| Rated voltage | 250V AC/DC | | 25V AC/DC | 60V AC/DC | 30V AC/DC |
| Wire gauge | 0.34 $mm^2$ (AWG 22) | | | 0.25 $mm^2$ (AWG 24) | |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 2 | 1m | MC-WM02STMF10CB34 | MC-WM02STMF10RB34 | MC-WF02STMF10CB34 | MC-WF02STMF10RB34 |
| | 3m | MC-WM02STMF30CB34 | MC-WM02STMF30RB34 | MC-WF02STMF30CB34 | MC-WF02STMF30RB34 |
| | 5m | MC-WM02STMF50CB34 | MC-WM02STMF50RB34 | MC-WF02STMF50CB34 | MC-WF02STMF50RB34 |
| 3 (2+PE) | 1m | MC-WM02STMF10CB34 | MC-WM02STMF10RB34 | MC-WF03STMF10CB34 | MC-WF03STMF10RB34 |
| | 3m | MC-WM02STMF30CB34 | MC-WM02STMF30RB34 | MC-WF03STMF30CB34 | MC-WF03STMF30RB34 |
| | 5m | MC-WF03STMF50CB34 | MC-WF03STMF50RB34 | MC-WF03STMF50CB34 | MC-WF03STMF50RB34 |
| 4 (3+PE) | 1m | MC-WF04STMF10CB34 | MC-WF04STMF10RB34 | MC-WF04STMF10CB34 | MC-WF04STMF10RB34 |
| | 3m | MC-WF04STMF30CB34 | MC-WF04STMF30RB34 | MC-WF04STMF30CB34 | MC-WF04STMF30RB34 |
| | 5m | MC-WF04STMF50CB34 | MC-WF04STMF50RB34 | MC-WF04STMF50CB34 | MC-WF04STMF50RB34 |
| 5 (4+PE) | 1m | MC-WF05STMF10CB25 | MC-WF05STMF10RB25 | MC-WF05STMF10CB25 | MC-WF05STMF10RB25 |
| | 3m | MC-WF05STMF30CB25 | MC-WF05STMF30RB25 | MC-WF05STMF30CB25 | MC-WF05STMF30RB25 |
| | 5m | MC-WF05STMF50CB25 | MC-WF05STMF50RB25 | MC-WF05STMF50CB25 | MC-WF05STMF50RB25 |
| 6 (5+PE) | 1m | MC-WF06STMF10CB25 | MC-WF06STMF10RB25 | MC-WF06STMF10CB25 | MC-WF06STMF10RB25 |
| | 3m | MC-WF06STMF30CB25 | MC-WF06STMF30RB25 | MC-WF06STMF30CB25 | MC-WF06STMF30RB25 |
| | 5m | MC-WF06STMF50CB25 | MC-WF06STMF50RB25 | MC-WF06STMF50CB25 | MC-WF06STMF50RB25 |

## Default wire colors

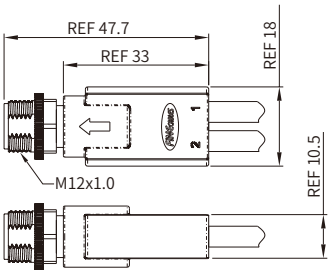
| Pin No. | | | | | |
|---|---|---|---|---|---|
| Pin 1 | BN | BN | BN | BN | BN |
| Pin 2 | BU | BU | WH | WH | WH |
| Pin 3 | | BK | BU | BU | BU |
| Pin 4 | | | BK | BK | BK |
| Pin 5 | | | | GY | GY |
| Pin 6 | | | | | RK |

# M12 C-coding (Power)

## M12 C-coding Straight Connector, Molded 2 Cables

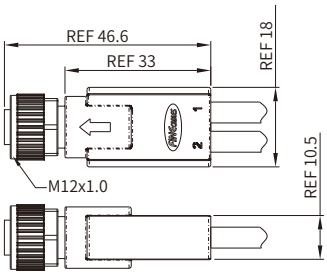
Male

RoHS




Female

RoHS




## Specifications

| Contacts | 3 (2+PE) | 4 (3+PE) | 5 (4+PE) | 6 (5+PE) |
|---|---|---|---|---|
| Pin layout(Male) | | | | |
| Pin layout(Female) | | | | |
| Standard | IEC 61076-2-101 | | | |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | | | |
| Connector insert | TPU | | | |
| Connector contacts | Brass with gold plated | | | |
| Connector overmold | TPU | | | |
| Coupling nut/screw | Zinc alloy with nickel plated | | | |
| Seal/O-ring(of Female) | FKM | | | |
| Insulation resistance | ⩾100MΩ | | | |
| Contact resistance | ⩽5mΩ | | | |
| Shielding | Unavailable | | | |
| IP rating | IP67, IP68, IP69K in locked condition | | | |
| Mating endurance | >500 cycles | | | |
| Rated current | 4 A | | 2 A | |
| Rated voltage | 250V AC/DC | | 60V AC/DC | 30V AC/DC |
| Wire gauge | 0.34 $mm^2$ (AWG 22) | | 0.25 $mm^2$ (AWG 24) | |

## Part Number

| Pins | Male | | | Female | | |
|---|---|---|---|---|---|---|
| | Unshielded | Shielding | | Unshielded | Shielding | |
| 3 (2+PE) | MT-049 | MST-027 | Customized cable | MT-057 | MST-031 | Customized cable |
| 4 (3+PE) | MT-050 | MST-028 | | MT-058 | MST-032 | |
| 5 (4+PE) | MT-051 | MST-029 | | MT-059 | MST-033 | |
| 6 (5+PE) | MT-052 | MST-030 | | MT-060 | MST-034 | |

## Default wire colors

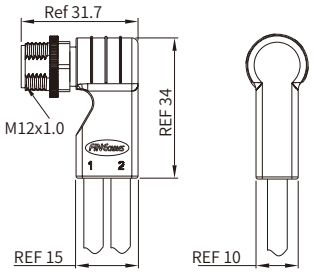
| Pin No. | | | | |
|---|---|---|---|---|
| Pin 1 | BN | BN | BN | BN |
| Pin 2 | BU | WH | WH | WH |
| Pin 3 | BK | BU | BU | BU |
| Pin 4 | | BK | BK | BK |
| Pin 5 | | | GY | GY |
| Pin 6 | | | | RK |

# M12 C-coding (Power)

## M12 C-coding Angled Connector, Molded 2 Cables

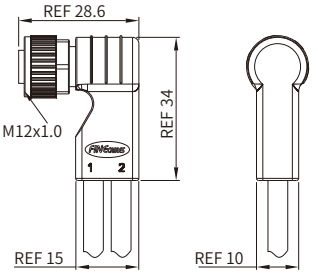
Male

RoHS




Female

RoHS




## Specifications

| Contacts | 3 (2+PE) | 4 (3+PE) | 5 (4+PE) | 6 (5+PE) |
|---|---|---|---|---|
| Pin layout(Male) | | | | |
| Pin layout(Female) | | | | |
| Standard | IEC 61076-2-101 | | | |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | | | |
| Connector insert | TPU | | | |
| Connector contacts | Brass with gold plated | | | |
| Connector overmold | TPU | | | |
| Coupling nut/screw | Zinc alloy with nickel plated | | | |
| Seal/O-ring(of Female) | FKM | | | |
| Insulation resistance | ⩾100MΩ | | | |
| Contact resistance | ⩽5mΩ | | | |
| Shielding | Unavailable/Available | | | |
| IP rating | IP67, IP68, IP69K in locked condition | | | |
| Mating endurance | >500 cycles | | | |
| Rated current | 4 A | | 2 A | |
| Rated voltage | 250V AC/DC | | 60V AC/DC | 30V AC/DC |
| Wire gauge | 0.34 $mm^2$ (AWG 22) | | 0.25 $mm^2$ (AWG 24) | |

## Part Number

| Pins | Male | | | Female | | |
|---|---|---|---|---|---|---|
| | Unshielded | Shielding | | Unshielded | Shielding | |
| 3 (2+PE) | MT-053 | MST-035 | Customized cable | MT-061 | MST-039 | Customized cable |
| 4 (3+PE) | MT-054 | MST-036 | | MT-062 | MST-040 | |
| 5 (4+PE) | MT-055 | MST-037 | | MT-063 | MST-041 | |
| 6 (5+PE) | MT-056 | MST-038 | | MT-064 | MST-042 | |

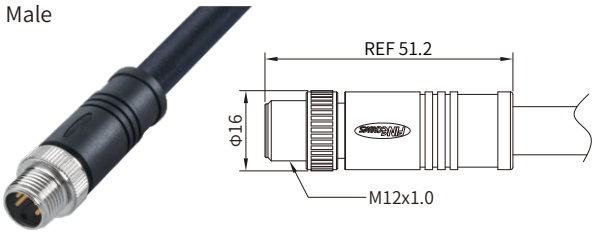
## Default wire colors

| Pin No. | | | | |
|---|---|---|---|---|
| Pin 1 | BN | BN | BN | BN |
| Pin 2 | BU | WH | WH | WH |
| Pin 3 | BK | BU | BU | BU |
| Pin 4 | | BK | BK | BK |
| Pin 5 | | | GY | GY |
| Pin 6 | | | | RK |

# M12 M-coding (Power)

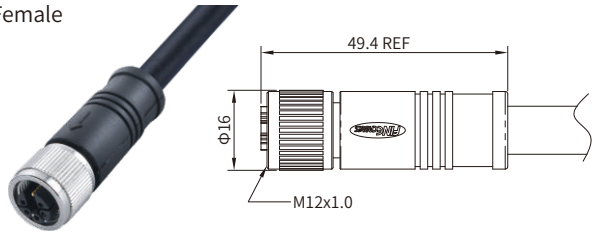
## M12 M-coding Straight Connector, Molded Cable, Shielded

Male




CE RoHS IP67

Female




CE RoHS IP67

## Specifications

| Contacts | 6 (5+PE) |
|---|---|
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-111 |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) |
| Connector insert | PA+GF |
| Connector contacts | Brass with gold plated |
| Connector overmold | TPU |
| Coupling nut/screw | Brass with nickel plated |
| Seal/O-ring(of Female) | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽10mΩ |
| Shielding | Available |
| IP rating | IP67 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 8 A |
| Rated voltage | 630V |
| Wire gauge | 1.5 $mm^2$ (AWG 16) |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 6 (5+PE) | 1m | MA12MSMF06ST10CB15 | MA12MSMF06ST10RB15 | MA12FSMF06ST10CB15 | MA12FSMF06ST10RB15 |
| | 3m | MA12MSMF06ST30CB15 | MA12MSMF06ST30RB15 | MA12FSMF06ST30CB15 | MA12FSMF06ST30RB15 |
| | 5m | MA12MSMF06ST50CB15 | MA12MSMF06ST50RB15 | MA12FSMF06ST50CB15 | MA12FSMF06ST50RB15 |

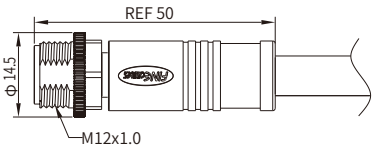
## Default wire colors

| Pin No. | |
|---|---|
| Pin 1 | BN |
| Pin 2 | WH |
| Pin 3 | BU |
| Pin 4 | BK |
| Pin 5 | GY |
| Pin 6 | YE/GN |
| Shell | Braid |

# M12 S-coding (Power AC)

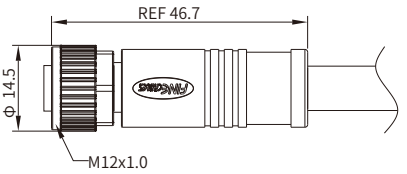
## M12 S-coding Straight Connector, Molded Cable

Male




RoHS

Female




RoHS

## Specifications

| | |
|---|---|
| Contacts | 4(3+PE) |
| Certification | PVVA(PVVA7).E496340 |
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC-61076-2-111 |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) |
| Connector insert | TPU; PA |
| Connector contacts | Brass with gold plated |
| Connector overmold | TPU |
| Coupling nut/screw | Zinc alloy with nickel plated |
| Seal/O-ring(of Female) | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Shielding | Unavailable |
| IP rating | IP67, IP68 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 12 A |
| Rated voltage | 630V |
| Wire gauge | 1.25 $mm^2$ (AWG 16) |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 4(3+PE) | 1m | MA12MSHD04ST10CB125 | MA12MSHD04ST10RB125 | MA12FSHD04ST10CB125 | MA12FSHD04ST10RB125 |
| | 3m | MA12MSHD04ST30CB125 | MA12MSHD04ST30RB125 | MA12FSHD04ST30CB125 | MA12FSHD04ST30RB125 |
| | 5m | MA12MSHD04ST50CB125 | MA12MSHD04ST50RB125 | MA12FSHD04ST50CB125 | MA12FSHD04ST50RB125 |

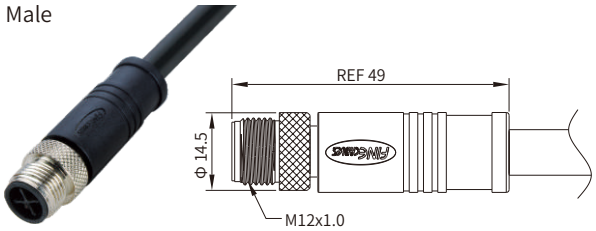
## Default wire colors

| Pin No. | | |
|---|---|---|
| Pin 1 | BN | RD |
| Pin 2 | BK | WH |
| Pin 3 | BU | GN |
| ⏚ | YE/GN | YE/GN |

# M12 S-coding (Power AC)

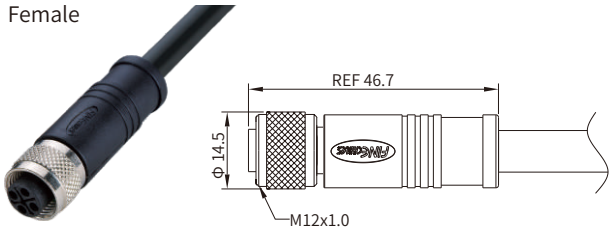
## M12 S-coding Straight Connector, Molded Cable, Shielded

Male




RoHS

Female




RoHS

## Specifications

| Contacts | 4(3+PE) |
|---|---|
| Certification | PVVA(PVVA7).E496340 |
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC-61076-2-111 |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) |
| Connector insert | TPU; PA |
| Connector contacts | Brass with gold plated |
| Connector overmold | TPU |
| Coupling nut/screw | Brass with nickel plated |
| Seal/O-ring(of Female) | FKM |
| Insulation resistance | ≥100MΩ |
| Contact resistance | ≤5mΩ |
| Shielding | Available |
| IP rating | IP67, IP68 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 12 A |
| Rated voltage | 630V |
| Wire gauge | 1.25 $mm^2$ (AWG 16) |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 4(3+PE) | 1m | MA12MSSF04ST10CB125 | MA12MSSF04ST10RB125 | MA12FSSF04ST10CB125 | MA12FSSF04ST10RB125 |
| | 3m | MA12MSSF04ST30CB125 | MA12MSSF04ST30RB125 | MA12FSSF04ST30CB125 | MA12FSSF04ST30RB125 |
| | 5m | MA12MSSF04ST50CB125 | MA12MSSF04ST50RB125 | MA12FSSF04ST50CB125 | MA12FSSF04ST50RB125 |

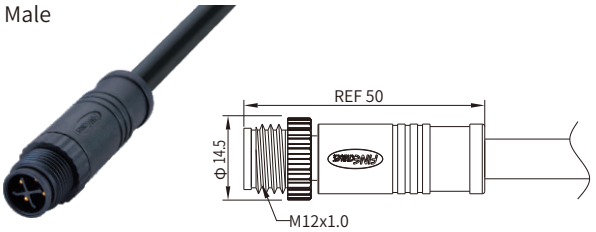
## Default wire colors

| Pin No. | | |
|---|---|---|
| Pin 1 | BN | RD |
| Pin 2 | BK | WH |
| Pin 3 | BU | GN |
| ⏚ | YE/GN | YE/GN |
| Shell | Braid | |

# M12 S-coding (Power AC)

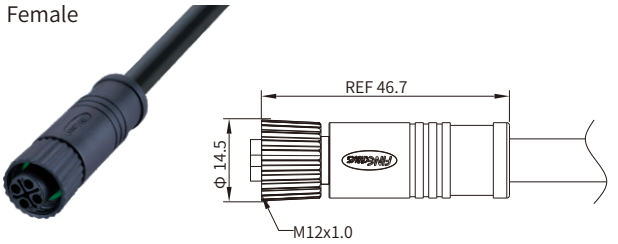
## M12 S-coding Straight Connector, Molded Cable, Plastic

Male




RoHS

Female




RoHS

## Specifications

| Contacts | 4(3+PE) |
|---|---|
| Certification | PVVA(PVVA7).E496340 |
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC-61076-2-111 |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) |
| Connector insert | TPU |
| Connector contacts | Brass with gold plated |
| Connector overmold | TPU |
| Coupling nut/screw | PA+GF |
| Seal/O-ring(of Female) | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Shielding | Unavailable |
| IP rating | IP67, IP68 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 12 A |
| Rated voltage | 630V |
| Wire gauge | 1.25 $mm^2$ (AWG 16) |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 4(3+PE) | 1m | MA12MSP04ST10CB125 | MA12MSP04ST10RB125 | MA12FSP04ST10CB125 | MA12FSP04ST10RB125 |
| | 3m | MA12MSP04ST30CB125 | MA12MSP04ST30RB125 | MA12FSP04ST30CB125 | MA12FSP04ST30RB125 |
| | 5m | MA12MSP04ST50CB125 | MA12MSP04ST50RB125 | MA12FSP04ST50CB125 | MA12FSP04ST50RB125 |

## Default wire colors

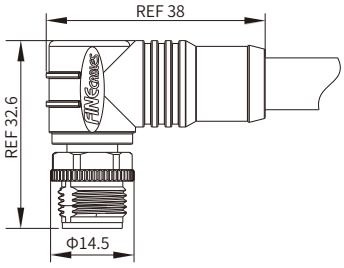
| Pin No. | | |
|---|---|---|
| Pin 1 | BN | RD |
| Pin 2 | BK | WH |
| Pin 3 | BU | GN |
| ⏚ | YE/GN | YE/GN |

# M12 S-coding (Power AC)

## M12 S-coding Angled Connector, Molded Cable

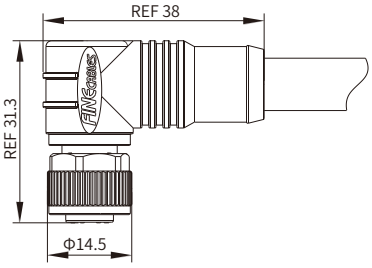
Male

RoHS




Female

RoHS




## Specifications

| Contacts | 4(3+PE) |
|---|---|
| Certification | PVVA(PVVA7).E496340 |
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC-61076-2-111 |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) |
| Connector insert | TPU; PA |
| Connector contacts | Brass with gold plated |
| Connector overmold | TPU |
| Coupling nut/screw | Zinc alloy with nickel plated |
| Seal/O-ring(of Female) | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Shielding | Unavailable |
| IP rating | IP67, IP68 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 12 A |
| Rated voltage | 630V |
| Wire gauge | 1.25 $mm^2$ (AWG 16) |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 4(3+PE) | 1m | MA12MSHD04RA10CB125 | MA12MSHD04RA10RB125 | MA12FSHD04RA10CB125 | MA12FSHD04RA10RB125 |
| | 3m | MA12MSHD04RA30CB125 | MA12MSHD04RA30RB125 | MA12FSHD04RA30CB125 | MA12FSHD04RA30RB125 |
| | 5m | MA12MSHD04RA50CB125 | MA12MSHD04RA50RB125 | MA12FSHD04RA50CB125 | MA12FSHD04RA50RB125 |

## Default wire colors

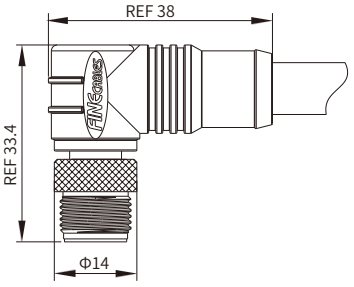
| Pin No. | | |
|---|---|---|
| Pin 1 | BN | RD |
| Pin 2 | BK | WH |
| Pin 3 | BU | GN |
| ⏚ | YE/GN | YE/GN |

# M12 S-coding (Power AC)

## M12 S-coding Angled Connector, Molded Cable, Shielded

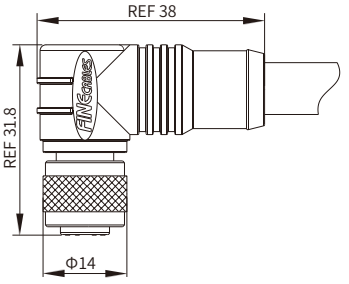
Male

RoHS




Female

RoHS




## Specifications

| Contacts | 4(3+PE) |
|---|---|
| Certification | PVVA(PVVA7).E496340 |
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC-61076-2-111 |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) |
| Connector insert | TPU; PA |
| Connector contacts | Brass with gold plated |
| Connector overmold | TPU |
| Coupling nut/screw | Brass with nickel plated |
| Seal/O-ring(of Female) | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Shielding | Available |
| IP rating | IP67, IP68 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 12 A |
| Rated voltage | 630V |
| Wire gauge | 1.25 $mm^2$ (AWG 16) |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 4(3+PE) | 1m | MA12MSSF04RA10CB125 | MA12MSSF04RA10RB125 | MA12FSSF04RA10CB125 | MA12FSSF04RA10RB125 |
| | 3m | MA12MSSF04RA30CB125 | MA12MSSF04RA30RB125 | MA12FSSF04RA30CB125 | MA12FSSF04RA30RB125 |
| | 5m | MA12MSSF04RA50CB125 | MA12MSSF04RA50RB125 | MA12FSSF04RA50CB125 | MA12FSSF04RA50RB125 |

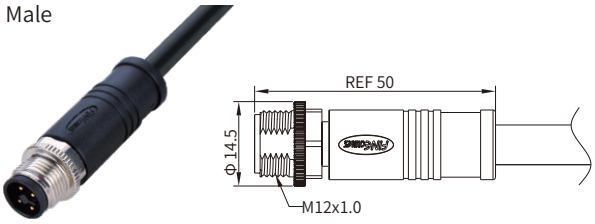
## Default wire colors

| Pin No. | | |
|---|---|---|
| Pin 1 | BN | RD |
| Pin 2 | BK | WH |
| Pin 3 | BU | GN |
| ⏚ | YE/GN | YE/GN |
| Shell | Braid | |

# M12 T-coding (Power DC)

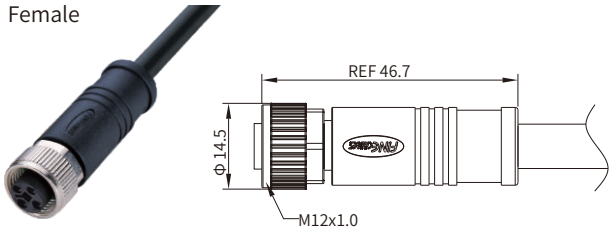
## M12 T-coding Straight Connector, Molded Cable

Male




CE RoHS

Female




CE RoHS

## Specifications

| Contacts | 4 |
|---|---|
| Certification | PVVA(PVVA7).E496340 |
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC-61076-2-111 |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) |
| Connector insert | TPU+GF |
| Connector contacts | Brass with gold plated |
| Connector overmold | TPU |
| Coupling nut/screw | Zinc alloy with nickel plated |
| Seal/O-ring(of Female) | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Shielding | Unavailable |
| IP rating | IP67, IP68 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 12 A |
| Rated voltage | 63V |
| Wire gauge | 1.25 $mm^2$ (AWG 16) |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 4 | 1m | MA12MTHD04ST10CB125 | MA12MTHD04ST10RB125 | MA12FTHD04ST10CB125 | MA12FTHD04ST10RB125 |
| | 3m | MA12MTHD04ST30CB125 | MA12MTHD04ST30RB125 | MA12FTHD04ST30CB125 | MA12FTHD04ST30RB125 |
| | 5m | MA12MTHD04ST50CB125 | MA12MTHD04ST50RB125 | MA12FTHD04ST50CB125 | MA12FTHD04ST50RB125 |

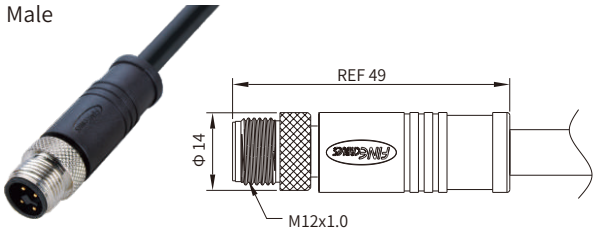
## Default wire colors

| Pin No. | | |
|---|---|---|
| Pin 1 | BN | RD |
| Pin 2 | BK | WH |
| Pin 3 | BU | GN |
| ⏚ | YE/GN | YE/GN |

# M12 T-coding (Power DC)

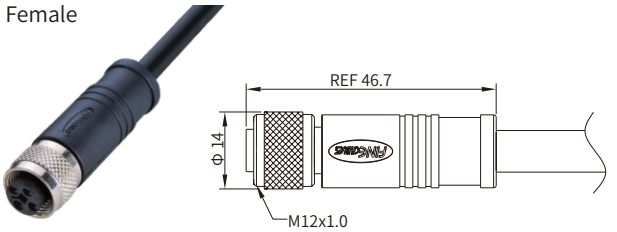
## M12 T-coding Straight Connector, Molded Cable, Shielded

Male




CE RoHS

Female




CE RoHS

## Specifications

| Contacts | 4 |
|---|---|
| Certification | PVVA(PVVA7).E496340 |
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC-61076-2-111 |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) |
| Connector insert | TPU+GF |
| Connector contacts | Brass with gold plated |
| Connector overmold | TPU |
| Coupling nut/screw | Brass with nickel plated |
| Seal/O-ring(of Female) | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Shielding | Available |
| IP rating | IP67, IP68 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 12 A |
| Rated voltage | 63V |
| Wire gauge | 1.25 $mm^2$ (AWG 16) |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 4 | 1m | MA12MSTF04ST10CB125 | MA12MSTF04ST10RB125 | MA12FSTF04ST10CB125 | MA12FSTF04ST10RB125 |
| | 3m | MA12MSTF04ST30CB125 | MA12MSTF04ST30RB125 | MA12FSTF04ST30CB125 | MA12FSTF04ST30RB125 |
| | 5m | MA12MSTF04ST50CB125 | MA12MSTF04ST50RB125 | MA12FSTF04ST50CB125 | MA12FSTF04ST50RB125 |

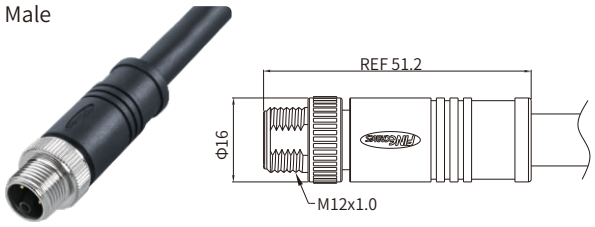
## Default wire colors

| Pin No. | | |
|---|---|---|
| Pin 1 | BN | RD |
| Pin 2 | BK | WH |
| Pin 3 | BU | GN |
| ⏚ | YE/GN | YE/GN |
| Shell | Braid | |

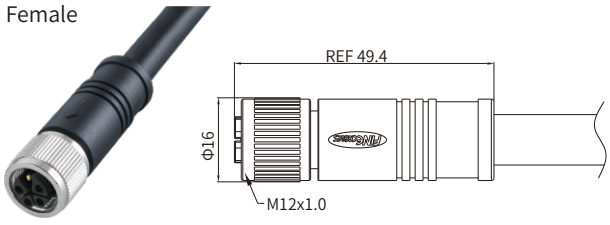
# M12 K-coding (Power AC)

## M12 K-coding Straight Connector, Molded Cable, Shielded

Male




Female




CE RoHS IP68

CE RoHS IP68

## Specifications

| Contacts | 5(4+PE) |
|---|---|
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC-61076-2-111 |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) |
| Connector insert | TPU+PA |
| Connector contacts | Brass with gold plated |
| Connector overmold | TPU |
| Coupling nut/screw | Brass with nickel plated |
| Seal/O-ring(of Female) | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽8mΩ |
| Shielding | Available |
| IP rating | IP67, IP68 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 12 A |
| Rated voltage | 630V |
| Wire gauge | 2.0 $mm^2$ (AWG 14) |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 5(4+PE) | 1m | MA12MSKF05ST10CB200 | MA12MSKF05ST10RB200 | MA12FSKF05ST10CB200 | MA12FSKF05ST10RB200 |
| | 3m | MA12MSKF05ST30CB200 | MA12MSKF05ST30RB200 | MA12FSKF05ST30CB200 | MA12FSKF05ST30RB200 |
| | 5m | MA12MSKF05ST50CB200 | MA12MSKF05ST50RB200 | MA12FSKF05ST50CB200 | MA12FSKF05ST50RB200 |

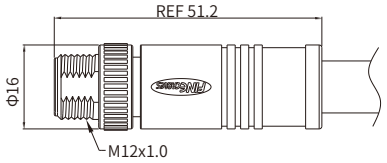
## Default wire colors

| Pin No. | | |
|---|---|---|
| Pin 1 | BN | BK |
| Pin 2 | WH | BK |
| Pin 3 | BU | BK |
| Pin 4 | BK | BK |
| Pin 5 | GY | YE/GN |
| Shell | Braid | |

# M12 L-coding (Power DC)

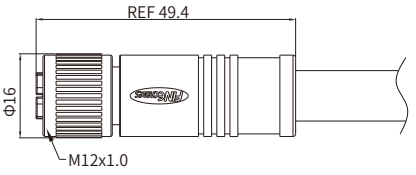
## M12 L-coding Straight Connector, Molded Cable, Shielded

Male




CE RoHS

Female




CE RoHS

## Specifications

| | |
|---|---|
| Contacts | 5(4+PE) |
| Certification | PVVA(PVVA7).E496340 |
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-111 |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) |
| Connector insert | TPU+PA |
| Connector contacts | Brass with gold plated |
| Connector overmold | TPU |
| Coupling nut/screw | Brass with nickel plated |
| Seal/O-ring(of Female) | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Shielding | Available |
| IP rating | IP67, IP68 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 16 A |
| Rated voltage | 63V |
| Wire gauge | 2.0 $mm^2$ (AWG 14) |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 5(4+PE) | 1m | MA12MSLF05ST10CB200 | MA12MSLF05ST10RB200 | MA12FSLF05ST10CB200 | MA12FSLF05ST10RB200 |
| | 3m | MA12MSLF05ST30CB200 | MA12MSLF05ST30RB200 | MA12FSLF05ST30CB200 | MA12FSLF05ST30RB200 |
| | 5m | MA12MSLF05ST50CB200 | MA12MSLF05ST50RB200 | MA12FSLF05ST50CB200 | MA12FSLF05ST50RB200 |

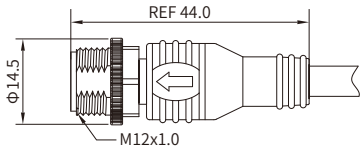
## Default wire colors

| Pin No. | | |
|---|---|---|
| Pin 1 | BN | BK |
| Pin 2 | WH | BK |
| Pin 3 | BU | BK |
| Pin 4 | BK | BK |
| Pin 5 | GY | YE/GN |
| Shell | Braid | |

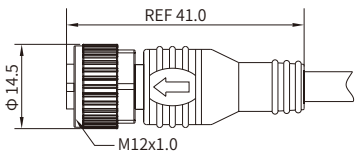
# M12 D-coding (Ethernet)

## M12 D-coding Straight Connector, Molded Cable

Male




Female




## Specifications

| Contacts | 4 |
|---|---|
| Certification | PVVA(PVVA7).E496340 CYJV2(CYJV8).E321413 |
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-101 |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) |
| Connector insert | TPU |
| Connector contacts | Brass with gold plated |
| Connector overmold | TPU |
| Coupling nut/screw | Zinc alloy with nickel plated |
| Seal/O-ring(of Female) | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Shielding | Unavailable |
| IP rating | IP67, IP68, IP69K in locked condition |
| Transmission characteristic | CAT5e |
| Mating endurance | >500 cycles |
| Rated current | 4 A |
| Rated voltage | 250V AC/DC |
| Wire gauge | 0.34 $mm^2$ (AWG 22) |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 4 | 1m | MA12MDHD04ST10CG34 | MA12MDHD04ST10RG34 | MA12FDHD04ST10CG34 | MA12FDHD04ST10RG34 |
| | 3m | MA12MDHD04ST30CG34 | MA12MDHD04ST30RG34 | MA12FDHD04ST30CG34 | MA12FDHD04ST30RG34 |
| | 5m | MA12MDHD04ST50CG34 | MA12MDHD04ST50RG34 | MA12FDHD04ST50CG34 | MA12FDHD04ST50RG34 |

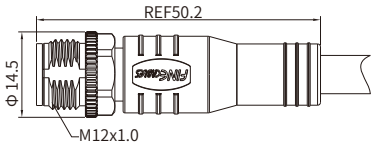
## Default wire colors

| Pin No. | | |
|---|---|---|
| Pin 1 | BN | WH/OR |
| Pin 2 | WH | WH/GN |
| Pin 3 | BU | OR |
| Pin 4 | BK | GN |

# M12 D-coding (Ethernet)

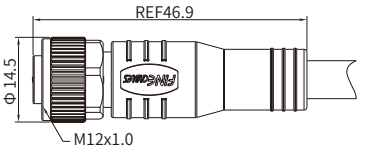
## M12 D-coding Straight Connector, Molded Cable, Shielded

Male




CE RoHS

Female




CE RoHS

## Specifications

| | |
|---|---|
| Contacts | 4 |
| Certification | PVVA(PVVA7).E496340 CYJV2(CYJV8).E321413 |
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-101 |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) |
| Connector insert | TPU |
| Connector contacts | Brass with gold plated |
| Connector overmold | TPU |
| Coupling nut/screw | Zinc alloy with nickel plated |
| Seal/O-ring(of Female) | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Shielding | Available |
| IP rating | IP67, IP68, IP69K in locked condition |
| Transmission characteristic | CAT5e |
| Mating endurance | >500 cycles |
| Rated current | 4 A |
| Rated voltage | 250V AC/DC |
| Wire gauge | 0.34 $mm^2$ (AWG 22) |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 4 | 1m | MA12MSDHD04ST10CG34 | MA12MSDHD04ST10RG34 | MA12FSDHD04ST10CG34 | MA12FSDHD04ST10RG34 |
| | 3m | MA12MSDHD04ST30CG34 | MA12MSDHD04ST30RG34 | MA12FSDHD04ST30CG34 | MA12FSDHD04ST30RG34 |
| | 5m | MA12MSDHD04ST50CG34 | MA12MSDHD04ST50RG34 | MA12FSDHD04ST50CG34 | MA12FSDHD04ST50RG34 |

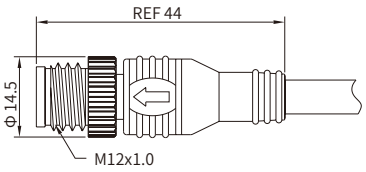
## Default wire colors

| Pin No. | | |
|---|---|---|
| Pin 1 | BN | WH/OR |
| Pin 2 | WH | WH/GN |
| Pin 3 | BU | OR |
| Pin 4 | BK | GN |
| Shell | Braid | |

# M12 D-coding (Ethernet)

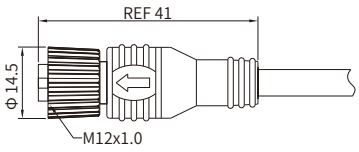
## M12 D-coding Straight Connector, Molded Cable, Plastic

Male




CE RoHS

Female




CE RoHS

## Specifications

| Contacts | 4 |
|---|---|
| Certification | PVVA(PVVA7).E496340 CYJV2(CYJV8).E321413 |
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-101 |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) |
| Connector insert | TPU |
| Connector contacts | Brass with gold plated |
| Connector overmold | TPU |
| Coupling nut/screw | PA+GF |
| Seal/O-ring(of Female) | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Shielding | Unavailable |
| IP rating | IP67, IP68 in locked condition |
| Transmission characteristic | CAT5e |
| Mating endurance | >500 cycles |
| Rated current | 4 A |
| Rated voltage | 250V AC/DC |
| Wire gauge | 0.34 $mm^2$ (AWG 22) |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 4 | 1m | MA12MDP04ST10CG34 | MA12MDP04ST10RG34 | MA12FDP04ST10CG34 | MA12FDP04ST10RG34 |
| | 3m | MA12MDP04ST30CG34 | MA12MDP04ST30RG34 | MA12FDP04ST30CG34 | MA12FDP04ST30RG34 |
| | 5m | MA12MDP04ST50CG34 | MA12MDP04ST50RG34 | MA12FDP04ST50CG34 | MA12FDP04ST50RG34 |

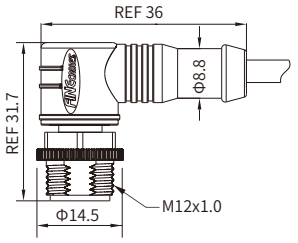
## Default wire colors

| Pin No. | | |
|---|---|---|
| Pin 1 | BN | WH/OR |
| Pin 2 | WH | WH/GN |
| Pin 3 | BU | OR |
| Pin 4 | BK | GN |

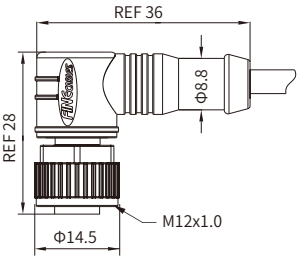
# M12 D-coding (Ethernet)

## M12 D-coding Angled Connector, Molded Cable

Male




Female




## Specifications

| | |
|---|---|
| Contacts | 4 |
| Certification | PVVA(PVVA7).E496340 CYJV2(CYJV8).E321413 |
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-101 |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) |
| Connector insert | TPU |
| Connector contacts | Brass with gold plated |
| Connector overmold | TPU |
| Coupling nut/screw | Zinc alloy with nickel plated |
| Seal/O-ring(of Female) | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Shielding | Unavailable |
| IP rating | IP67, IP68, IP69K in locked condition |
| Transmission characteristic | CAT5e |
| Mating endurance | >500 cycles |
| Rated current | 4 A |
| Rated voltage | 250V AC/DC |
| Wire gauge | 0.34 mm2 (AWG 22) |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 4 | 1m | MA12MDHD04RA10CG34 | MA12MDHD04RA10RG34 | MA12FDHD04RA10CG34 | MA12FDHD04RA10RG34 |
| | 3m | MA12MDHD04RA30CG34 | MA12MDHD04RA30RG34 | MA12FDHD04RA30CG34 | MA12FDHD04RA30RG34 |
| | 5m | MA12MDHD04RA50CG34 | MA12MDHD04RA50RG34 | MA12FDHD04RA50CG34 | MA12FDHD04RA50RG34 |

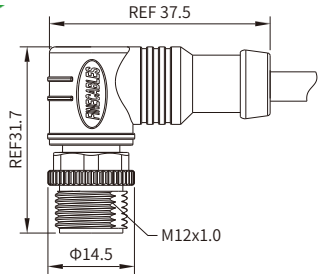
## Default wire colors

| Pin No. | | |
|---|---|---|
| Pin 1 | BN | WH/OR |
| Pin 2 | WH | WH/GN |
| Pin 3 | BU | OR |
| Pin 4 | BK | GN |

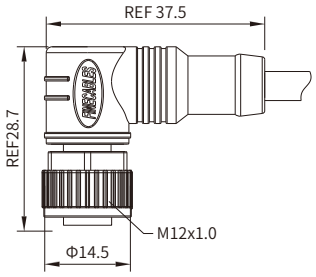
# M12 D-coding (Ethernet)

## M12 D-coding Angled Connector, Molded Cable, Shielded

Male




Female




## Specifications

| | |
|---|---|
| Contacts | 4 |
| Certification | PVVA(PVVA7).E496340 CYJV2(CYJV8).E321413 |
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-101 |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) |
| Connector insert | PA |
| Connector contacts | Brass with gold plated |
| Connector overmold | TPU |
| Coupling nut/screw | Zinc alloy with nickel plated |
| Seal/O-ring(of Female) | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Shielding | Available |
| IP rating | IP67, IP68, IP69K in locked condition |
| Transmission characteristic | CAT5e |
| Mating endurance | >500 cycles |
| Rated current | 4 A |
| Rated voltage | 250V AC/DC |
| Wire gauge | 0.34 $mm^2$ (AWG 22) |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 4 | 1m | MA12MSDHD04RA10CG34 | MA12MSDHD04RA10RG34 | MA12FSDHD04RA10CG34 | MA12FSDHD04RA10RG34 |
| | 3m | MA12MSDHD04RA30CG34 | MA12MSDHD04RA30RG34 | MA12FSDHD04RA30CG34 | MA12FSDHD04RA30RG34 |
| | 5m | MA12MSDHD04RA50CG34 | MA12MSDHD04RA50RG34 | MA12FSDHD04RA50CG34 | MA12FSDHD04RA50RG34 |

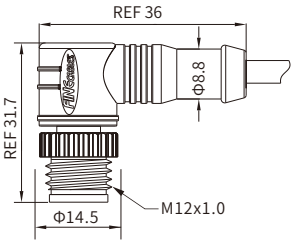
## Default wire colors

| Pin No. | | |
|---|---|---|
| Pin 1 | BN | WH/OR |
| Pin 2 | WH | WH/GN |
| Pin 3 | BU | OR |
| Pin 4 | BK | GN |
| Shell | Braid | |

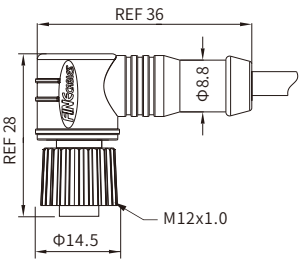
# M12 D-coding (Ethernet)

## M12 D-coding Angled Connector, Molded Cable, Plastic

Male




Female




## Specifications

| Contacts | 4 |
|---|---|
| Certification | PVVA(PVVA7).E496340 CYJV2(CYJV8).E321413 |
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-101 |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) |
| Connector insert | TPU |
| Connector contacts | Brass with gold plated |
| Connector overmold | TPU |
| Coupling nut/screw | PA+GF |
| Seal/O-ring(of Female) | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Shielding | Unavailable |
| IP rating | IP67, IP68 in locked condition |
| Transmission characteristic | CAT5e |
| Mating endurance | >500 cycles |
| Rated current | 4 A |
| Rated voltage | 250V AC/DC |
| Wire gauge | 0.34 $mm^2$ (AWG 22) |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 4 | 1m | MA12MDP04RA10CG34 | MA12MDP04RA10RG34 | MA12FDP04RA10CG34 | MA12FDP04RA10RG34 |
| | 3m | MA12MDP04RA30CG34 | MA12MDP04RA30RG34 | MA12FDP04RA30CG34 | MA12FDP04RA30RG34 |
| | 5m | MA12MDP04RA50CG34 | MA12MDP04RA50RG34 | MA12FDP04RA50CG34 | MA12FDP04RA50RG34 |

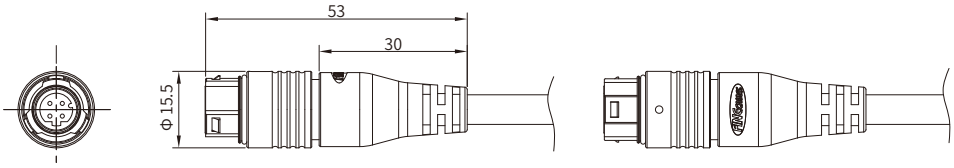
## Default wire colors

| Pin No. | | |
|---|---|---|
| Pin 1 | BN | WH/OR |
| Pin 2 | WH | WH/GN |
| Pin 3 | BU | OR |
| Pin 4 | BK | GN |

# M12 D-coding (Ethernet)

## M12 D-coding Push-Pull Male Straight Connector, Molded Cable, Shielded

Male




RoHS

## Specifications

| Contacts | 4 |
|---|---|
| Pin layout(Male) | |
| Standard | IEC 61076-2-012-2020 |
| Ambient temperature | -25 °C ~ +85°C |
| Insulator | PA |
| Connector contacts | Brass with gold plated |
| Out shell | Brass with Black nickel plated |
| Insulator resistance | ⩾100MΩ |
| IP rating | IP 67(Mated) |
| Shielding effciency | at 10MHz>75dB/at 1GHz>40dB |
| Salt spray corrosion test | >96h |
| Endurance | ＞500 cycles |
| Rated current | 4 A |
| Voltage | 250V AC/DC |
| Wire gauge / size | 0.34 $mm^2$ (AWG 22) |

## Part Number

| Pins | Cable length | Male | |
|---|---|---|---|
| | | PVC | PUR |
| 4 | 1m | MA12MPSDPP04ST10CG34 | MA12MPSDPP04ST10RG34 |
| | 3m | MA12MPSDPP04ST30CG34 | MA12MPSDPP04ST30RG34 |
| | 5m | MA12MPSDPP04ST50CG34 | MA12MPSDPP04ST50RG34 |

## Default wire colors

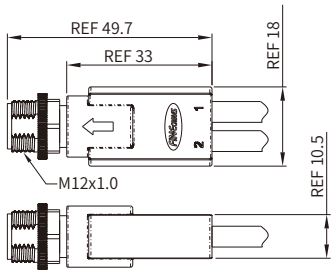
| Pin No. | | |
|---|---|---|
| Pin 1 | BN | WH/OR |
| Pin 2 | WH | WH/GN |
| Pin 3 | BU | OR |
| Pin 4 | BK | GN |
| Shell | Braid | |

# M12 D-coding (Ethernet)

## M12 D-coding Straight Connector, Molded 2 Cables

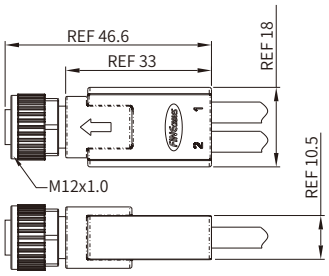
Male

RoHS




Female

RoHS




## Specifications

| Contacts | 4 |
|---|---|
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-101 |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) |
| Connector insert | TPU |
| Connector contacts | Brass with gold plated |
| Connector overmold | TPU |
| Coupling nut/screw | Zinc alloy with nickel plated |
| Seal/O-ring(of Female) | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Shielding | Unavailable/Available |
| IP rating | IP67, IP68, IP69K in locked condition |
| Transmission characteristic | CAT5e |
| Mating endurance | >500 cycles |
| Rated current | 4 A |
| Rated voltage | 250V AC/DC |
| Wire gauge | 0.34 $mm^2$ (AWG 22) |

## Part Number

| Pins | Male | | | Female | | |
|---|---|---|---|---|---|---|
| | Unshielded | Shielding | Customized cable | Unshielded | Shielding | Customized cable |
| 4 | MT-021 | MST-043 | | MT-035 | MST-044 | |

## Default wire colors

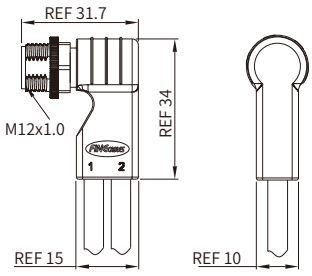
| Pin No. | | |
|---|---|---|
| Pin 1 | BN | WH/OR |
| Pin 2 | WH | WH/GN |
| Pin 3 | BU | OR |
| Pin 4 | BK | GN |

# M12 D-coding (Ethernet)

## M12 D-coding Angled Connector, Molded 2 Cables

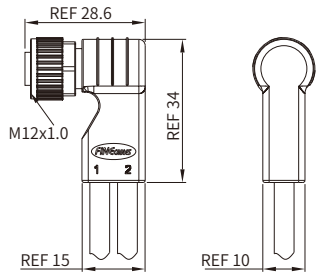
Male

RoHS




Female

RoHS




## Specifications

| Contacts | 4 |
|---|---|
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-101 |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) |
| Connector insert | TPU |
| Connector contacts | Brass with gold plated |
| Connector overmold | TPU |
| Coupling nut/screw | Zinc alloy with nickel plated |
| Seal/O-ring(of Female) | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Shielding | Unavailable/Available |
| IP rating | IP67, IP68, IP69K in locked condition |
| Transmission characteristic | CAT5e |
| Mating endurance | >500 cycles |
| Rated current | 4 A |
| Rated voltage | 250V AC/DC |
| Wire gauge | 0.34 $mm^2$ (AWG 22) |

## Part Number

| Pins | Male | | | Female | | |
|---|---|---|---|---|---|---|
| | Unshielded | Shielding | Customized cable | Unshielded | Shielding | Customized cable |
| 4 | MT-028 | MST-045 | | MT-042 | MST-046 | |

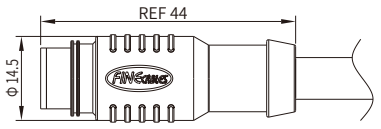
## Default wire colors

| Pin No. | | |
|---|---|---|
| Pin 1 | BN | WH/OR |
| Pin 2 | WH | WH/GN |
| Pin 3 | BU | OR |
| Pin 4 | BK | GN |

# M12 D-coding (Ethernet)

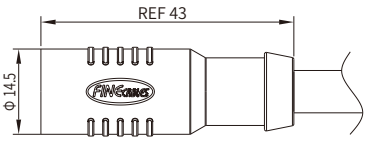
## M12 D-coding Straight Connector, Molded Cable, Snap-in Type

Male




CE RoHS

Female




CE RoHS

## Specifications

| Contacts | 4 |
|---|---|
| Pin layout(Male) | |
| Pin layout(Female) | |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) |
| Connector insert | TPU |
| Connector contacts | Brass with gold plated |
| Connector overmold | TPU |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Shielding | Unavailable |
| IP rating | IP65 in locked condition |
| Transmission characteristic | CAT5e |
| Mating endurance | >500 cycles |
| Rated current | 4 A |
| Rated voltage | 250V AC/DC |
| Wire gauge | 0.34mm²(AWG22) |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 4 | 1m | MA12MDI04ST10CG34 | MA12MDI04ST10RG34 | MA12FDI04ST10CG34 | MA12FDI04ST10RG34 |
| | 3m | MA12MDI04ST30CG34 | MA12MDI04ST30RG34 | MA12FDI04ST30CG34 | MA12FDI04ST30RG34 |
| | 5m | MA12MDI04ST50CG34 | MA12MDI04ST50RG34 | MA12FDI04ST50CG34 | MA12FDI04ST50RG34 |

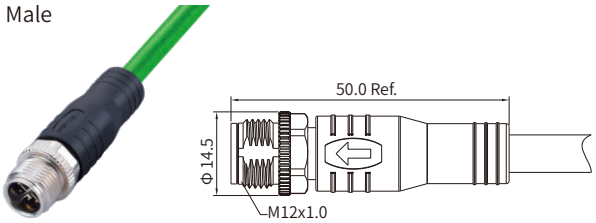
## Default wire colors

| Pin No. | | |
|---|---|---|
| Pin 1 | BN | WH/OR |
| Pin 2 | WH | WH/GN |
| Pin 3 | BU | OR |
| Pin 4 | BK | GN |

# M12 X-coding (Ethernet)

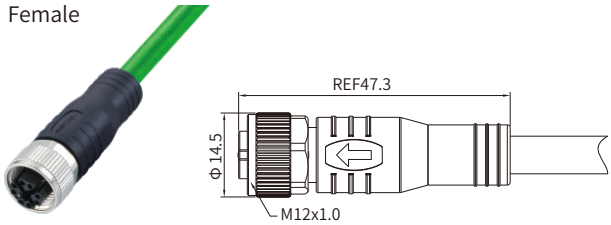
## M12 X-coding Straight Connector, Molded Cable, Shielded

Male




CE RoHS

Female




CE RoHS

## Specifications

| Contacts | 8 |
|---|---|
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-109 |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) |
| Connector insert | PA |
| Connector contacts | Brass with gold plated |
| Connector overmold | TPU |
| Coupling nut/screw | Zinc alloy with nickel plated |
| Seal/O-ring(of Female) | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽10mΩ |
| Shielding | Available |
| IP rating | IP67, IP68 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 0.5 A |
| Rated voltage | 50V AC/ 60V DC |
| Wire gauge | 0.14~0.25 $mm^2$ (AWG 26~24) |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 8 | 1m | MA12MSXHD08ST10CG14 | MA12MSXHD08ST10RG14 | MA12FSXHD08ST10CG14 | MA12FSXHD08ST10RG14 |
| | 3m | MA12MSXHD08ST30CG14 | MA12MSXHD08ST30RG14 | MA12FSXHD08ST30CG14 | MA12FSXHD08ST30RG14 |
| | 5m | MA12MSXHD08ST50CG14 | MA12MSXHD08ST50RG14 | MA12FSXHD08ST50CG14 | MA12FSXHD08ST50RG14 |

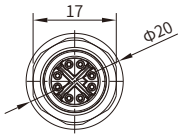
## Default wire colors

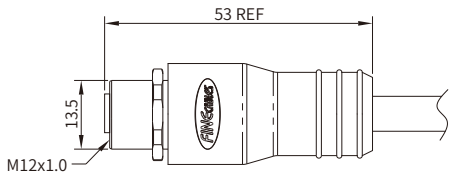
| Pin No. | |
|---|---|
| Pin 1 | WH/OR |
| Pin 2 | OR |
| Pin 3 | WH/GN |
| Pin 4 | BU |
| Pin 5 | WH/BU |
| Pin 6 | GN |
| Pin 7 | WH/BN |
| Pin 8 | BN |
| Shell | Braid |

# M12 X-coding (Ethernet)

## M12 X-coding Straight Connector, Molded Cable, Shielded

Female




CE RoHS

## Specifications

| Contacts | 8 |
|---|---|
| Pin layout(Female) | |
| Standard | IEC 61076-2-109 |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) |
| Connector insert | PA/TPU |
| Connector contacts | Brass with gold plated |
| Connector overmold | TPU |
| Coupling nut/screw | Brass with nickel plated |
| Seal/O-ring(of Female) | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽10mΩ |
| Shielding | Available |
| IP rating | IP67, IP68 in locked condition |
| Transmission characteristic | CAT 6A /CAT 7 |
| Mating endurance | >500 cycles |
| Rated current | 0.5 A |
| Rated voltage | 50V AC/ 60V DC |
| Wire gauge | 0.14~0.25 $mm^2$ (AWG 26~24) |

## Part Number

| Pins | Cable length | Female | |
|---|---|---|---|
| | | PVC | PUR |
| 8 | 1m | MA12FSXN08ST10CG25 | MA12FSXN08ST10RG25 |
| | 3m | MA12FSXN08ST30CG25 | MA12FSXN08ST30RG25 |
| | 5m | MA12FSXN08ST50CG25 | MA12FSXN08ST50RG25 |

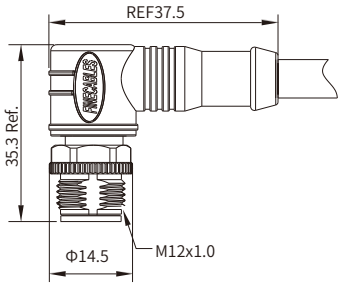
## Default wire colors

| Pin No. | |
|---|---|
| Pin 1 | WH/OR |
| Pin 2 | OR |
| Pin 3 | WH/GN |
| Pin 4 | BU |
| Pin 5 | WH/BU |
| Pin 6 | GN |
| Pin 7 | WH/BN |
| Pin 8 | BN |
| Shell | Braid |

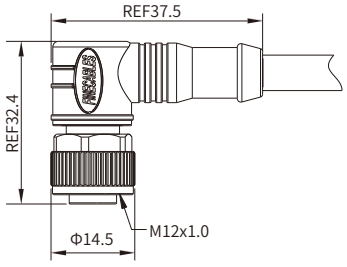
# M12 X-coding (Ethernet)

## M12 X-coding Right Angled Connector, Molded Cable, Shielded

Male




Female




## Specifications

| Contacts | 8 |
|---|---|
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-109 |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) |
| Connector insert | PA |
| Connector contacts | Brass with gold plated |
| Connector overmold | TPU |
| Coupling nut/screw | Zinc alloy with nickel plated |
| Seal/O-ring(of Female) | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽10mΩ |
| Shielding | Available |
| IP rating | IP67, IP68 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 0.5 A |
| Rated voltage | 50V AC/ 60V DC |
| Wire gauge | 0.14~0.25 $mm^2$ (AWG 26~24) |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 8 | 1m | MA12MSXHD08RA10CG14 | MA12MSXHD08RA10RG14 | MA12FSXHD08RA10CG14 | MA12FSXHD08RA10RG14 |
| | 3m | MA12MSXHD08RA30CG14 | MA12MSXHD08RA30RG14 | MA12FSXHD08RA30CG14 | MA12FSXHD08RA30RG14 |
| | 5m | MA12MSXHD08RA50CG14 | MA12MSXHD08RA50RG14 | MA12FSXHD08RA50CG14 | MA12FSXHD08RA50RG14 |

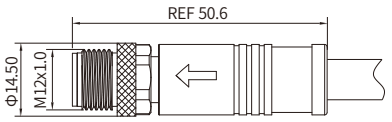
## Default wire colors

| Pin No. | |
|---|---|
| Pin 1 | WH/OR |
| Pin 2 | OR |
| Pin 3 | WH/GN |
| Pin 4 | BU |
| Pin 5 | WH/BU |
| Pin 6 | GN |
| Pin 7 | WH/BN |
| Pin 8 | BN |
| Shell | Braid |

# M12 Y1-coding

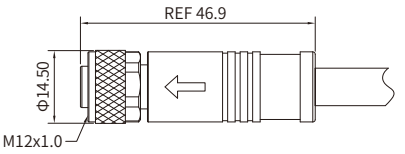
## M12 Y1-coding Straight Connector, Molded Cable, Shielded

Male




CE RoHS IP67

Female




CE RoHS IP67

## Specifications

| Contacts | 6 |
|---|---|
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-113 |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) |
| Connector insert | PA+GF |
| Connector contacts | Brass with gold plated |
| Connector overmold | TPU |
| Coupling nut/screw | Brass with nickel plated |
| Seal/O-ring | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽10mΩ |
| Shielding | Available |
| IP rating | IP67 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 10 A(Power pins) / 0.5A(Data pins) |
| Rated voltage | 50V AC/ DC |
| Wire gauge | 1.25 $mm^2$ (AWG 16)(Power pins) / 0.15 $mm^2$ (AWG 26)(Data pins) |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 6 | 1m | MA12MSY1F06ST10CB25 | MA12MSY1F06ST10RB25 | MA12FSY1F06ST10CB25 | MA12FSY1F06ST10RB25 |
| | 3m | MA12MSY1F06ST30CB25 | MA12MSY1F06ST30RB25 | MA12FSY1F06ST30CB25 | MA12FSY1F06ST30RB25 |
| | 5m | MA12MSY1F06ST50CB25 | MA12MSY1F06ST50RB25 | MA12FSY1F06ST50CB25 | MA12FSY1F06ST50RB25 |

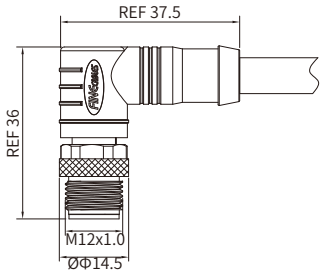
## Default wire colors

| Pin No. | |
|---|---|
| Pin 1(Power) | BK |
| Pin 2(Power) | RD |
| Pin 5(Data) | WH |
| Pin 6(Data) | OR |
| Pin 7(Data) | RD |
| Pin 8(Data) | GN |
| Shell | Braid |

# M12 Y1-coding

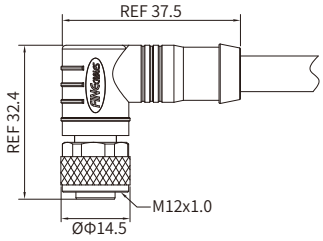
## M12 Y1-coding Right Angled Connector, Molded Cable, Shielded

Male




CE RoHS IP67

Female




CE RoHS IP67

## Specifications

| Contacts | 6 |
|---|---|
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-113 |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) |
| Connector insert | PA+GF |
| Connector contacts | Brass with gold plated |
| Connector overmold | TPU |
| Coupling nut/screw | Brass with nickel plated |
| Seal/O-ring | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽10mΩ |
| Shielding | Available |
| IP rating | IP67 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 10 A(Power pins) / 0.5A(Data pins) |
| Rated voltage | 50V AC/ DC |
| Wire gauge | 1.25 $mm^2$ (AWG 16)(Power pins) / 0.15 $mm^2$ (AWG 26)(Data pins) |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 6 | 1m | MA12MSY1F06RA10CB25 | MA12MSY1F06RA10RB25 | MA12FSY1F06RA10CB25 | MA12FSY1F06RA10RB25 |
| | 3m | MA12MSY1F06RA30CB25 | MA12MSY1F06RA30RB25 | MA12FSY1F06RA30CB25 | MA12FSY1F06RA30RB25 |
| | 5m | MA12MSY1F06RA50CB25 | MA12MSY1F06RA50RB25 | MA12FSY1F06RA50CB25 | MA12FSY1F06RA50RB25 |

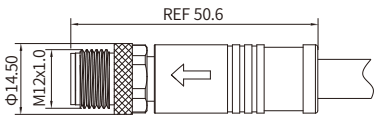
## Default wire colors

| Pin No. | |
|---|---|
| Pin 1(Power) | BK |
| Pin 2(Power) | RD |
| Pin 5(Data) | WH |
| Pin 6(Data) | RD |
| Pin 7(Data) | OR |
| Pin 8(Data) | GN |
| Shell | Braid |

# M12 Y2-coding

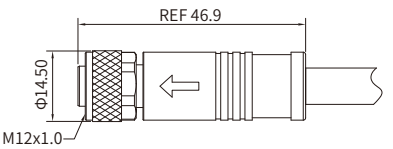
## M12 Y2-coding Straight Connector, Molded Cable, Shielded

Male




CE RoHS

Female




CE RoHS

## Specifications

| Contacts | 8 |
|---|---|
| Pin layout(Male) | |
| | |
| Standard | IEC 61076-2-113 |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) |
| Connector insert | PA+GF |
| Connector contacts | Brass with gold plated |
| Connector overmold | TPU |
| Coupling nut/screw | Brass with nickel plated |
| Seal/O-ring | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽10mΩ |
| Shielding | Available |
| IP rating | IP67 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 6 A(Power pins) / 0.5A(Data pins) |
| Rated voltage | 50V AC/ DC |
| Wire gauge | 0.6 $mm^2$ (AWG 20)(Power pins)/ 0.15 $mm^2$ (AWG 26)(Data pins) |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 8 | 1m | MA12MSY2F08ST10CB25 | MA12MSY2F08ST10RB25 | MA12FSY2F08ST10CB25 | MA12FSY2F08ST10RB25 |
| | 3m | MA12MSY2F08ST30CB25 | MA12MSY2F08ST30RB25 | MA12FSY2F08ST30CB25 | MA12FSY2F08ST30RB25 |
| | 5m | MA12MSY2F08ST50CB25 | MA12MSY2F08ST50RB25 | MA12FSY2F08ST50CB25 | MA12FSY2F08ST50RB25 |

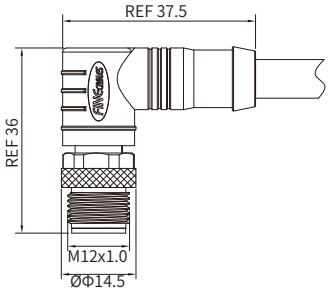
## Default wire colors

| Pin No. | |
|---|---|
| Pin 1(Power) | WH |
| Pin 2(Power) | BK |
| Pin 3(Power) | BN |
| Pin 4(Power) | WH |
| Pin 5(Data) | WH |
| Pin 6(Data) | OR |
| Pin 7(Data) | RD |
| Pin 8(Data) | GN |
| Shell | Braid |

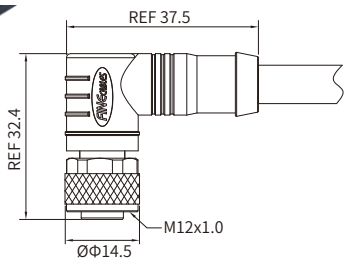
# M12 Y2-coding

## M12 Y2-coding Right Angled Connector, Molded Cable, Shielded

Male




Female




## Specifications

| Contacts | 8 |
|---|---|
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-113 |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) |
| Connector insert | PA+GF |
| Connector contacts | Brass with gold plated |
| Connector overmold | TPU |
| Coupling nut/screw | Brass with nickel plated |
| Seal/O-ring | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽10mΩ |
| Shielding | Available |
| IP rating | IP67 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 6 A(Power pins) / 0.5A(Data pins) |
| Rated voltage | 50V AC/ DC |
| Wire gauge | 0.6 $mm^2$ (AWG 20)(Power pins)/ 0.15 $mm^2$ (AWG 26)(Data pins) |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 8 | 1m | MA12MSY2F08RA10CB25 | MA12MSY2F08RA10RB25 | MA12FSY2F08RA10CB25 | MA12FSY2F08RA10RB25 |
| | 3m | MA12MSY2F08RA30CB25 | MA12MSY2F08RA30RB25 | MA12FSY2F08RA30CB25 | MA12FSY2F08RA30RB25 |
| | 5m | MA12MSY2F08RA50CB25 | MA12MSY2F08RA50RB25 | MA12FSY2F08RA50CB25 | MA12FSY2F08RA50RB25 |

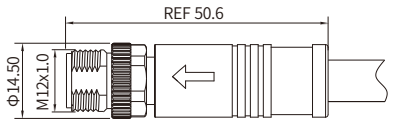
## Default wire colors

| Pin No. | |
|---|---|
| Pin 1(Power) | WH |
| Pin 2(Power) | BK |
| Pin 3(Power) | BN |
| Pin 4(Power) | WH |
| Pin 5(Data) | WH |
| Pin 6(Data) | OR |
| Pin 7(Data) | RD |
| Pin 8(Data) | GN |
| Shell | Braid |

# M12 Y3-coding

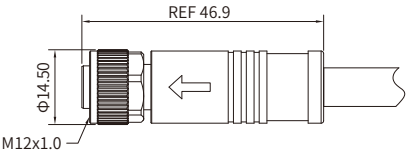
## M12 Y3-coding Straight Connector, Molded Cable, Shielded

Male




CE RoHS IP67

Female




CE RoHS IP67

## Specifications

| Contacts | 6 |
|---|---|
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-113 |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) |
| Connector insert | TPU+GF |
| Connector contacts | Brass with gold plated |
| Connector overmold | TPU |
| Coupling nut/screw | Brass with nickel plated |
| Seal/O-ring | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽10mΩ |
| Shielding | Available |
| IP rating | IP67 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 12 A(Power pins) / 0.5A(Data pins) |
| Rated voltage | 50V AC/ DC |
| Wire gauge | 1.25 $mm^2$ (AWG 16)(Power pins)/ 0.15 $mm^2$ (AWG 26)(Data pins) |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 6 | 1m | MA12MSY3F06ST10CB25 | MA12MSY3F06ST10RB25 | MA12FSY3F06ST10CB25 | MA12FSY3F06ST10RB25 |
| | 3m | MA12MSY3F06ST30CB25 | MA12MSY3F06ST30RB25 | MA12FSY3F06ST30CB25 | MA12FSY3F06ST30RB25 |
| | 5m | MA12MSY3F06ST50CB25 | MA12MSY3F06ST50RB25 | MA12FSY3F06ST50CB25 | MA12FSY3F06ST50RB25 |

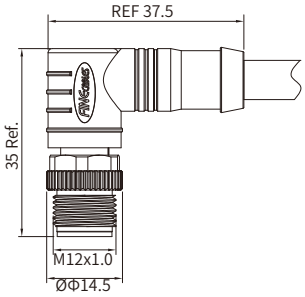
## Default wire colors

| Pin No. | |
|---|---|
| Pin 1(Data) | WH |
| Pin 2(Data) | OR |
| Pin 3(Data) | RD |
| Pin 4(Data) | GN |
| Pin 5(Power) | RD |
| Pin 6(Power) | BK |
| Shell | Braid |

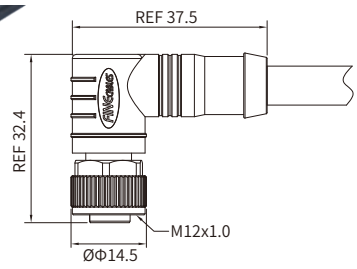
# M12 Y3-coding

## M12 Y3-coding Right Angled Connector, Molded Cable, Shielded

Male




Female




## Specifications

| Contacts | 6 |
|---|---|
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-113 |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) |
| Connector insert | TPU+GF |
| Connector contacts | Brass with gold plated |
| Connector overmold | TPU |
| Coupling nut/screw | Brass with nickel plated |
| Seal/O-ring | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽10mΩ |
| Shielding | Available |
| IP rating | IP67 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 12 A(Power pins) / 0.5A(Data pins) |
| Rated voltage | 50V AC/ DC |
| Wire gauge | 1.25 $mm^2$ (AWG 16)(Power pins)/ 0.15 $mm^2$ (AWG 26)(Data pins) |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 6 | 1m | MA12MSY3F06RA10CB25 | MA12MSY3F06RA10RB25 | MA12FSY3F06RA10CB25 | MA12FSY3F06RA10RB25 |
| | 3m | MA12MSY3F06RA30CB25 | MA12MSY3F06RA30RB25 | MA12FSY3F06RA30CB25 | MA12FSY3F06RA30RB25 |
| | 5m | MA12MSY3F06RA50CB25 | MA12MSY3F06RA50RB25 | MA12FSY3F06RA50CB25 | MA12FSY3F06RA50RB25 |

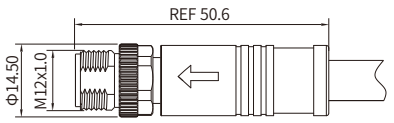
## Default wire colors

| Pin No. | |
|---|---|
| Pin 1(Data) | WH |
| Pin 2(Data) | OR |
| Pin 3(Data) | RD |
| Pin 4(Data) | GN |
| Pin 5(Power) | RD |
| Pin 6(Power) | BK |
| Shell | Braid |

# M12 Y4-coding

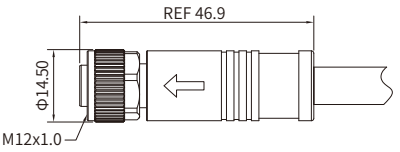
## M12 Y4-coding Straight Connector, Molded Cable, Shielded

Male




CE RoHS

Female




CE RoHS

## Specifications

| Contacts | 8 |
|---|---|
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-113 |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) |
| Connector insert | TPU+GF |
| Connector contacts | Brass with gold plated |
| Connector overmold | TPU |
| Coupling nut/screw | Brass with nickel plated |
| Seal/O-ring | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽10mΩ |
| Shielding | Available |
| IP rating | IP67 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 6 A(Power pins) / 0.5A(Data pins) |
| Rated voltage | 50V AC/ DC |
| Wire gauge | 0.6 $mm^2$ (AWG 20)(Power pins)/ 0.15 $mm^2$ (AWG 26)(Data pins) |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 8 | 1m | MA12MSY4F08ST10CB25 | MA12MSY4F08ST10RB25 | MA12FSY4F08ST10CB25 | MA12FSY4F08ST10RB25 |
| | 3m | MA12MSY4F08ST30CB25 | MA12MSY4F08ST30RB25 | MA12FSY4F08ST30CB25 | MA12FSY4F08ST30RB25 |
| | 5m | MA12MSY4F08ST50CB25 | MA12MSY4F08ST50RB25 | MA12FSY4F08ST50CB25 | MA12FSY4F08ST50RB25 |

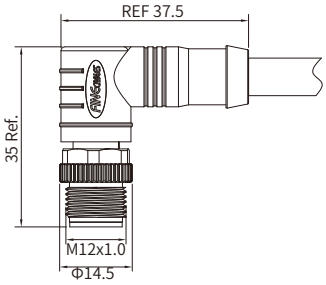
## Default wire colors

| Pin No. | |
|---|---|
| Pin 1(Data) | WH |
| Pin 2(Data) | OR |
| Pin 3(Data) | RD |
| Pin 4(Data) | GN |
| Pin 5(Power) | BU |
| Pin 6(Power) | WH |
| Pin 7(Power) | BN |
| Pin 8(Power) | BK |
| Shell | Braid |

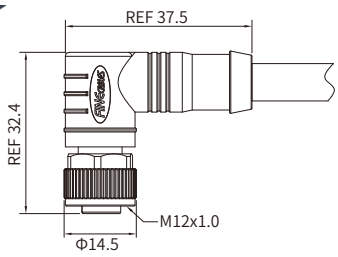
# M12 Y4-coding

## M12 Y4-coding Right Angled Connector, Molded Cable, Shielded

Male




Female




## Specifications

| Contacts | 8 |
|---|---|
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-113 |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) |
| Connector insert | TPU+GF |
| Connector contacts | Brass with gold plated |
| Connector overmold | TPU |
| Coupling nut/screw | Brass with nickel plated |
| Seal/O-ring | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽10mΩ |
| Shielding | Available |
| IP rating | IP67 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 6 A(Power pins) / 0.5A(Data pins) |
| Rated voltage | 50V AC/ DC |
| Wire gauge | 0.6 $mm^2$ (AWG 20)(Power pins)/ 0.15 $mm^2$ (AWG 26)(Data pins) |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 8 | 1m | MA12MSY4F08RA10CB25 | MA12MSY4F08RA10RB25 | MA12FSY4F08RA10CB25 | MA12FSY4F08RA10RB25 |
| | 3m | MA12MSY4F08RA30CB25 | MA12MSY4F08RA30RB25 | MA12FSY4F08RA30CB25 | MA12FSY4F08RA30RB25 |
| | 5m | MA12MSY4F08RA50CB25 | MA12MSY4F08RA50RB25 | MA12FSY4F08RA50CB25 | MA12FSY4F08RA50RB25 |

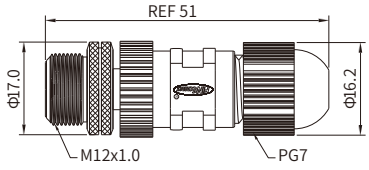
## Default wire colors

| Pin No. | |
|---|---|
| Pin 1(Data) | WH |
| Pin 2(Data) | OR |
| Pin 3(Data) | RD |
| Pin 4(Data) | GN |
| Pin 5(Power) | BU |
| Pin 6(Power) | WH |
| Pin 7(Power) | BN |
| Pin 8(Power) | BK |
| Shell | Braid |

# M12 A-coding (Sensor and Actuator)

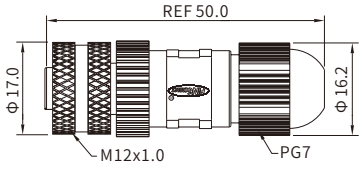
## M12 A-coding Straight Connector, Field Wirable Assembly, Solder

Male




CE RoHS

Female




CE RoHS

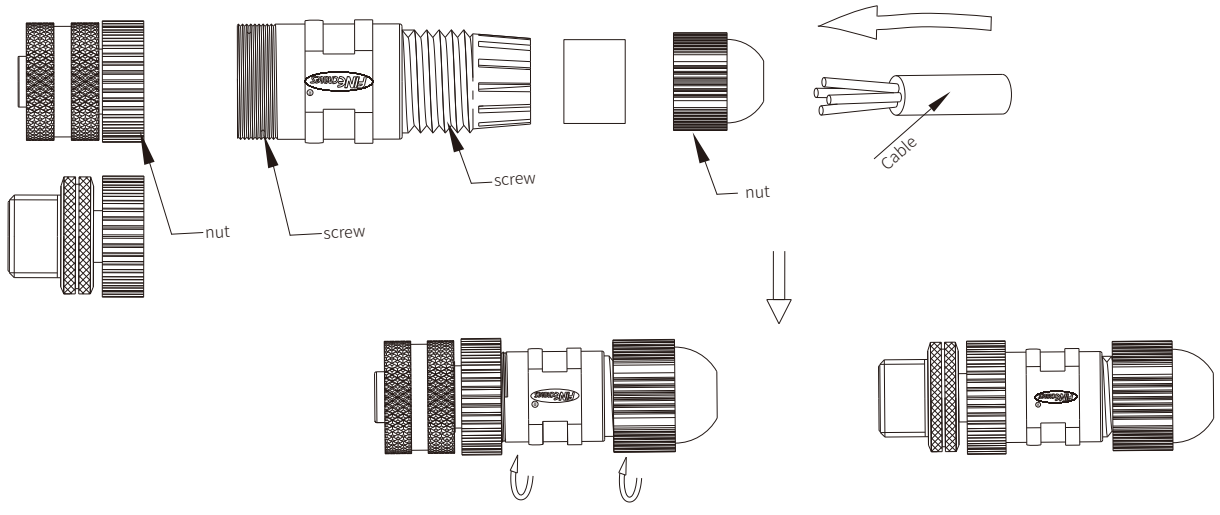
## Specifications

| Contacts | 3 | 4 | 5 | 8 | 12 |
|---|---|---|---|---|---|
| Pin layout(Male) | | | | | |
| Pin layout(Female) | | | | | |
| Standard | IEC 61076-2-101 | | | | |
| Ambient temperature | -25°C~+90°C | | | | |
| Connector insert | TPU | | | | |
| Connector contacts | Brass with gold plated | | | | |
| Connector body | PA | | | | |
| Coupling nut/screw | Brass with nickel plated | | | | |
| Seal/O-ring | FKM | | | | |
| Insulation resistance | ⩾100MΩ | | | | |
| Contact resistance | ⩽5mΩ | | | | |
| Shielding | Unavailable | | | | |
| Suitable cable Dia | 4~5.5mm | | | | |
| IP rating | IP65 in locked condition | | | | |
| Mating endurance | >500 cycles | | | | |
| Rated current | 4 A | | | 2A | 1.5A |
| Rated voltage | 250V AC/DC | | 60V | 30V | |
| Wire gauge | 0.34mm$^2$(AWG22) | | | 0.25mm$^2$(AWG24) | 0.14mm$^2$(AWG26) |

## Part Number

| Pins | Male | Female |
|---|---|---|
| 3 | MB12MAAFF03ST | MB12FAAFF03ST |
| 4 | MB12MAAFF04ST | MB12FAAFF04ST |
| 5 | MB12MAAFF05ST | MB12FAAFF05ST |
| 8 | MB12MAAFF08ST | MB12FAAFF08ST |
| 12 | MB12MAAFF12ST | MB12FAAFF12ST |

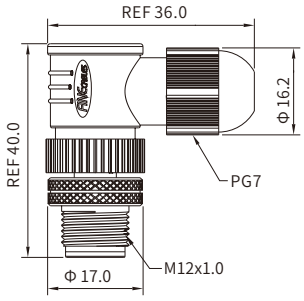
## Assembly Instruction



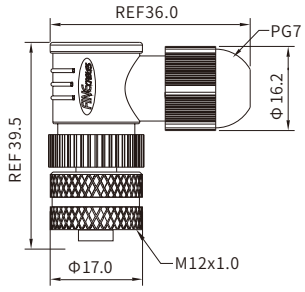
# M12 A-coding (Sensor and Actuator)

## M12 A-coding Angled Connector, Field Wirable Assembly, Solder

Male




Female



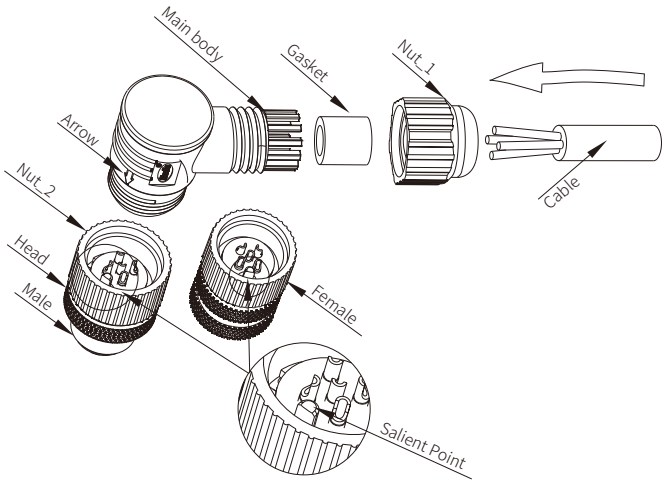

## Specifications

| Contacts | 3 | 4 | 5 | 8 |
|---|---|---|---|---|
| Pin layout(Male) | | | | |
| Pin layout(Female) | | | | |
| Standard | IEC 61076-2-101 | | | |
| Ambient temperature | -25°C~+90°C | | | |
| Connector insert | TPU | | | |
| Connector contacts | Brass with gold plated | | | |
| Connector body | PA | | | |
| Coupling nut/screw | Brass with nickel plated | | | |
| Seal/O-ring | FKM | | | |
| Insulation resistance | ⩾100MΩ | | | |
| Contact resistance | ⩽5mΩ | | | |
| Shielding | Unavailable | | | |
| Suitable cable Dia | 4~5.5mm | | | |
| IP rating | IP67, IP68 in locked condition | | | |
| Mating endurance | >500 cycles | | | |
| Rated current | 4 A | | | 2A |
| Rated voltage | 250V AC/DC | | 60V AC/DC | 30V AC/DC |
| Wire gauge | 0.34mm$^2$(AWG22) | | | 0.25mm$^2$(AWG24) |

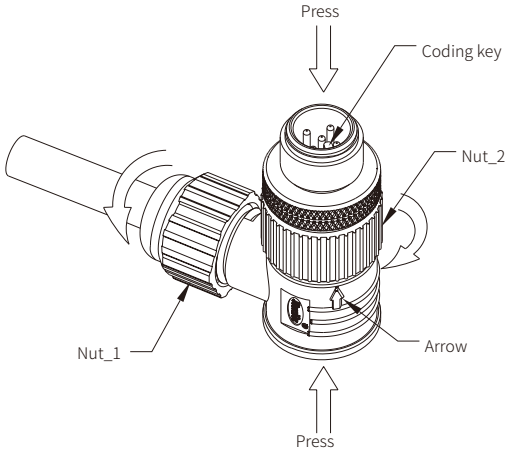
## Part Number

| Pins | Male | Female |
|---|---|---|
| 3 | MB12MAAFF03RA | MB12FAAFF03RA |
| 4 | MB12MAAFF04RA | MB12FAAFF04RA |
| 5 | MB12MAAFF05RA | MB12FAAFF05RA |
| 8 | MB12MAAFF08RA | MB12FAAFF08RA |

## Assembly Instruction




Picture 1

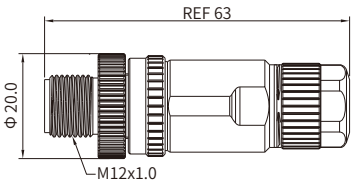



Picture 2

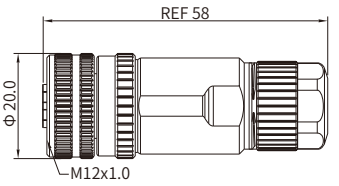
# M12 A-coding (Sensor and Actuator)

## M12 A-coding Straight Connector, Field Wirable Assembly, Screw joint, Shielded

Male




Female




CE RoHS IP68

CE RoHS IP68

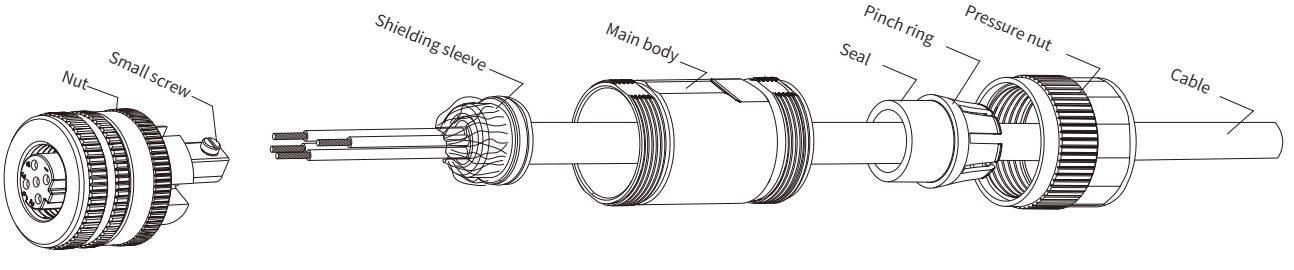
## Specifications

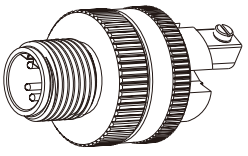
| Contacts | 3 | 4 | 5 | 8 |
|---|---|---|---|---|
| Certification | cULus LISTED CYJV(CYJV7).E321413 | | | |
| Pin layout(Male) | | | | |
| Pin layout(Female) | | | | |
| Standard | IEC 61076-2-101 | | | |
| Ambient temperature | -25°C~+90°C | | | |
| Connector insert | TPU | | | |
| Connector contacts | Brass with gold plated | | | |
| Connector body | Zinc alloy with nickel plated | | | |
| Coupling nut/screw | Brass with nickel plated | | | |
| Seal/O-ring | FKM | | | |
| Insulation resistance | ⩾100MΩ | | | |
| Contact resistance | ⩽5mΩ | | | |
| Shielding | Available | | | |
| Suitable cable Dia | A: 4~6mm; B: 6~8mm | | | |
| IP rating | IP67, IP68 in locked condition | | | |
| Mating endurance | >500 cycles | | | |
| Rated current | 4 A | | | 2A |
| Rated voltage | 250V AC/DC | | 60V AC/DC | 30V AC/DC |
| Wire gauge | 0.34mm² (AWG22) | | | 0.25mm² (AWG24) |

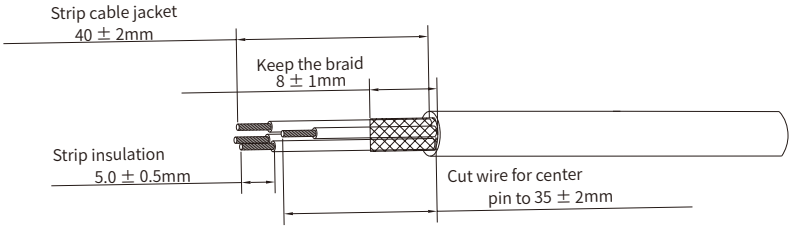
## Part Number

| Pins | Male | | Female | |
|---|---|---|---|---|
| | A | B | A | B |
| 3 | MB12MWSAFF03ST-A | MB12MWSAFF03ST-B | MB12FWSAFF03ST-A | MB12FWSAFF03ST-B |
| 4 | MB12MWSAFF04ST-A | MB12MWSAFF04ST-B | MB12FWSAFF04ST-A | MB12FWSAFF04ST-B |
| 5 | MB12MWSAFF05ST-A | MB12MWSAFF05ST-B | MB12FWSAFF05ST-A | MB12FWSAFF05ST-B |
| 8 | MB12MWSAFF08ST-A | MB12MWSAFF08ST-B | MB12FWSAFF08ST-A | MB12FWSAFF08ST-B |

## Assembly Instruction



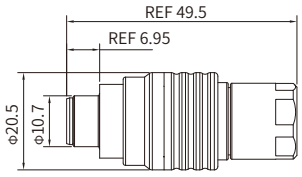





# M12 A-coding (Sensor and Actuator)

## M12 A-coding Straight Connector, Field Wirable Assembly, Push-pull type, Shielded

Male




CE RoHS IP68

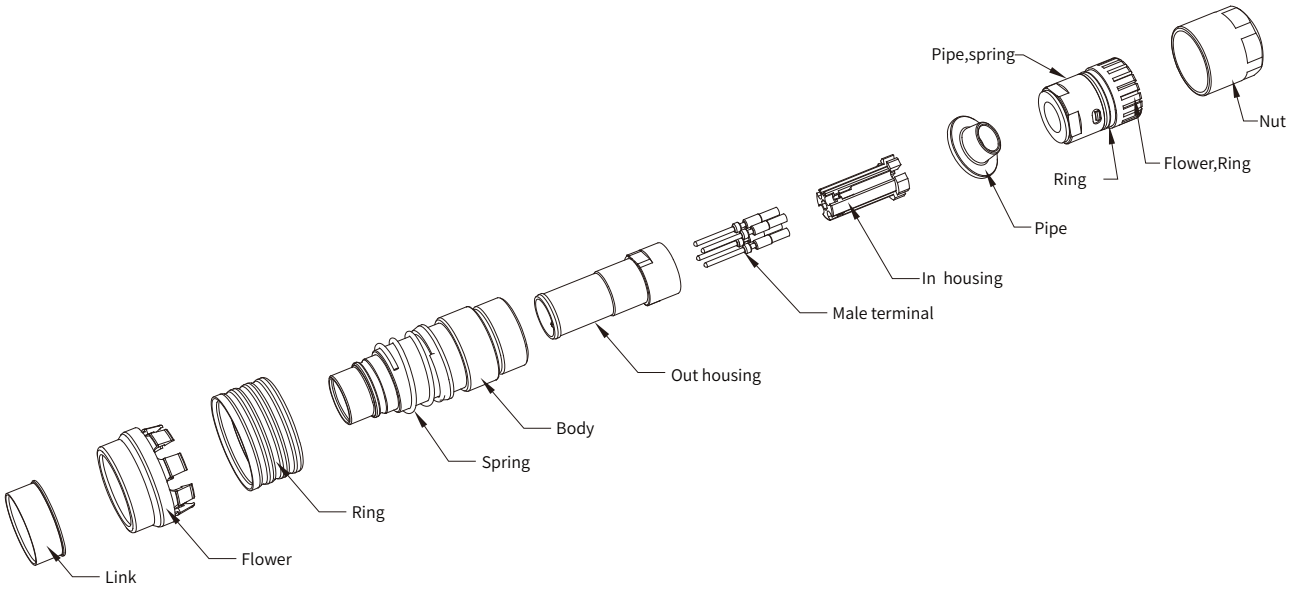
## Specifications

| Contacts | 4 | 5 |
|---|---|---|
| Pin layout(Male) | | |
| Ambient temperature | -25°C~+90°C | |
| Connector insert | PA+GF | |
| Connector contacts | Brass with gold plated | |
| Coupling nut/screw | Brass with nickel plated | |
| Seal/O-ring | FKM | |
| Insulation resistance | ⩾100MΩ | |
| Contact resistance | ⩽10mΩ | |
| Shielding | Available | |
| IP rating | IP67 in locked condition | |
| Mating endurance | >500 cycles | |
| Rated current | 4 A | |
| Rated voltage | 250V AC/DC | |
| Wire gauge | 0.34mm² (AWG22) | 60V AC/DC |

## Part Number

| Pins | Male |
|---|---|
| 4 | MB12MCPAPP04ST-2 |
| 5 | MB12MCPAPP05ST-2 |

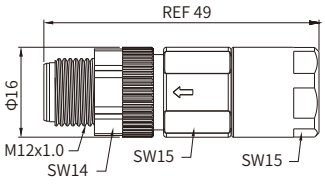
## Assembly Instruction



# M12 A-coding (Sensor and Actuator)

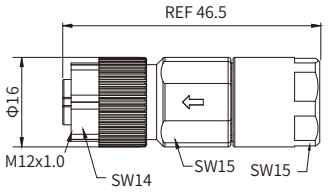
## M12 A-coding Straight Connector, Field Assembly, Crimp Type, Shielded

Male




CE RoHS

Female




CE RoHS

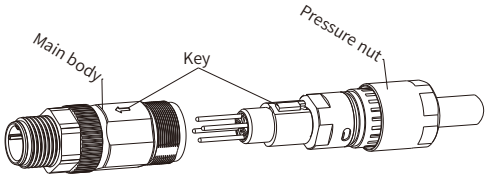
## Specifications

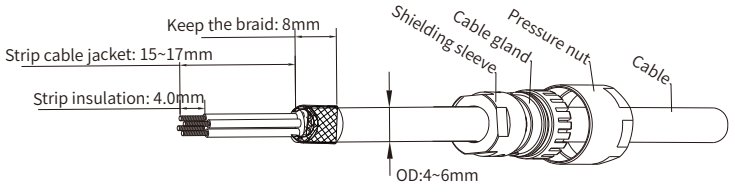
| Contacts | 3 | 4 | 5 | 8 |
|---|---|---|---|---|
| Pin layout(Male) | | | | |
| Pin layout(Female) | | | | |
| Standard | IEC 61076-2-101 | | | |
| Ambient temperature | -25°C~+90°C | | | |
| Connector insert | PA | | | |
| Connector contacts | Brass with gold plated | | | |
| Connector body | Zinc alloy with nickel plated | | | |
| Coupling nut/screw | Brass with nickel plated | | | |
| Seal/O-ring | FKM | | | |
| Insulation resistance | ⩾100MΩ | | | |
| Contact resistance | ⩽5mΩ | | | |
| Shielding | Available | | | |
| Suitable cable Dia | A: 4~6mm; B: 6~8mm | | | |
| IP rating | IP67, IP68 in locked condition | | | |
| Mating endurance | >500 cycles | | | |
| Rated current | 4 A | | | 2A |
| Rated voltage | 250V AC/DC | | 60V AC/DC | 30V AC/DC |
| Wire gauge | 0.25~0.5mm$^2$ (AWG24~20) | | | 0.14~0.34mm$^2$ (AWG26~22) |

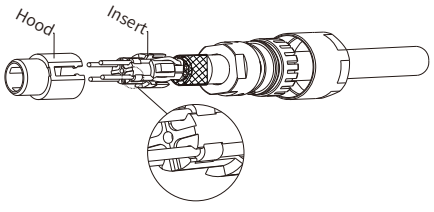
## Part Number

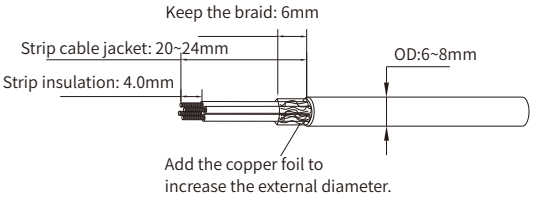
| Pins | Male | | Female | |
|---|---|---|---|---|
| | A | B | A | B |
| 3 | MB12MCSAFF03ST-A | MB12MCSAFF03ST-B | MB12FCSAFF03ST-A | MB12FCSAFF03ST-B |
| 4 | MB12MCSAFF04ST-A | MB12MCSAFF04ST-B | MB12FCSAFF04ST-A | MB12FCSAFF04ST-B |
| 5 | MB12MCSAFF05ST-A | MB12MCSAFF05ST-B | MB12FCSAFF05ST-A | MB12FCSAFF05ST-B |
| 8 | MB12MCSAFF08ST-A | MB12MCSAFF08ST-B | MB12FCSAFF08ST-A | MB12FCSAFF08ST-B |

## Assembly Instruction



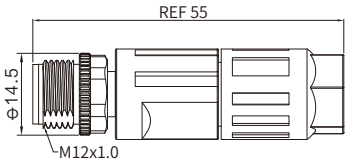



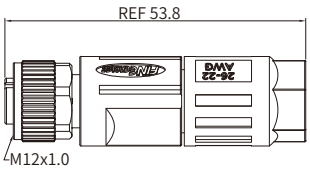
# M12 A-coding (Sensor and Actuator)

## M12 A-coding Straight Connector, Field Wirable Assembly, Piercing

Male




Female




CE RoHS

CE RoHS

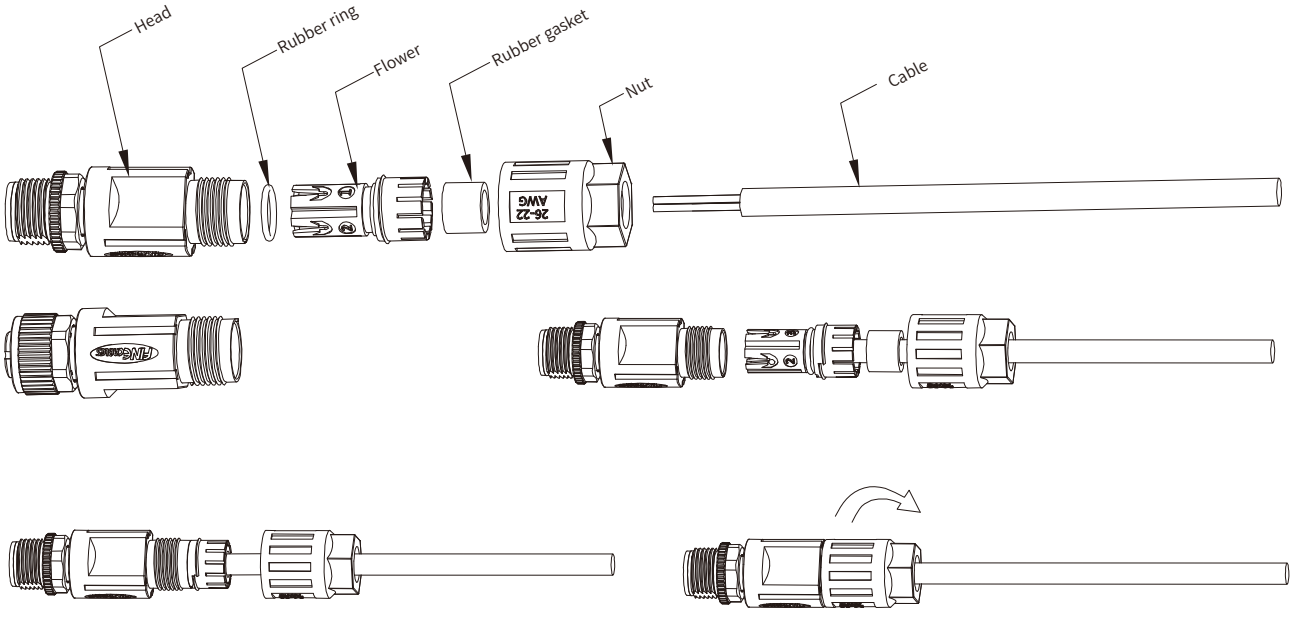
## Specifications

| Contacts | 3 | 4 |
|---|---|---|
| Pin layout(Male) | | |
| Pin layout(Female) | | |
| Standard | IEC 61076-2-101 | |
| Ambient temperature | -25°C~+90°C | |
| Connector insert | TPU+GF | |
| Connector contacts | Brass with gold plated | |
| Connector body | TPU | |
| Coupling nut/screw | Zinc alloy with nickel plated | |
| Seal/O-ring | FKM | |
| Insulation resistance | ⩾100MΩ | |
| Contact resistance | ⩽10mΩ | |
| Shielding | Unavailable | |
| Suitable cable Dia | 3.5~6.0mm | |
| IP rating | IP67 in locked condition | |
| Mating endurance | >500 cycles | |
| Rated current | 4 A | |
| Rated voltage | 125V AC/DC | |
| Wire gauge | 0.14~0.34mm$^2$(AWG26~22) | |

## Part Number

| Pins | Male | Female |
|---|---|---|
| 3 | MB12MPAFF03ST | MB12FPAFF03ST |
| 4 | MB12MPAFF04ST | MB12FPAFF04ST |

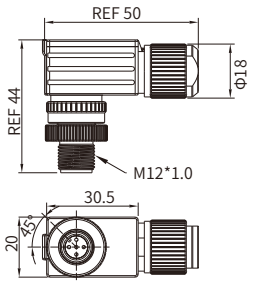
## Assembly Instruction



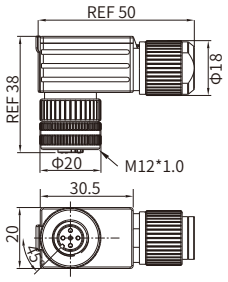
# M12 A-coding (Sensor and Actuator)

## M12 A-coding Angled Connector, Field Wirable Assembly, Screw joint, Shielded with Die-cast body

Male




Female



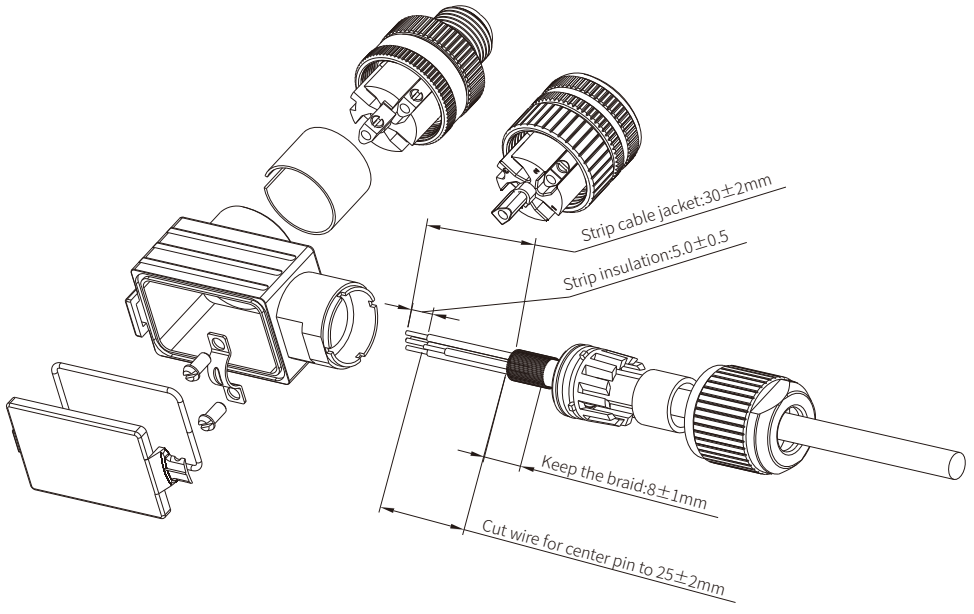

## Specifications

| Contacts | 3 | 4 | 5 | 8 |
|---|---|---|---|---|
| Certification | cULus LISTED CYJV(CYJV7).E321413 | | | |
| Pin layout(Male) | | | | |
| Pin layout(Female) | | | | |
| Standard | IEC 61076-2-101 | | | |
| Ambient temperature | -25°C~+90°C | | | |
| Connector insert | TPU | | | |
| Connector contacts | Brass with gold plated | | | |
| Connector body | Zinc alloy with nickel plated | | | |
| Coupling nut/screw | Brass with nickel plated | | | |
| Seal/O-ring | FKM | | | |
| Insulation resistance | ⩾100MΩ | | | |
| Contact resistance | ⩽5mΩ | | | |
| Shielding | Available | | | |
| Suitable cable Dia | A: 4~6mm; B: 6~8mm | | | |
| IP rating | IP67, IP68 in locked condition | | | |
| Mating endurance | >500 cycles | | | |
| Rated current | 4 A | | | 2A |
| Rated voltage | 250V AC/DC | | 60V AC/DC | 30V AC/DC |
| Wire gauge | 0.34mm² (AWG22) | | | 0.25mm² (AWG24) |

## Part Number

| Pins | Male | | Female | |
|---|---|---|---|---|
| | A | B | A | B |
| 3 | MB12MWSAFF03RA-A | MB12MWSAFF03RA-B | MB12FWSAFF03RA-A | MB12FWSAFF03RA-B |
| 4 | MB12MWSAFF04RA-A | MB12MWSAFF04RA-B | MB12FWSAFF04RA-A | MB12FWSAFF04RA-B |
| 5 | MB12MWSAFF05RA-A | MB12MWSAFF05RA-B | MB12FWSAFF05RA-A | MB12FWSAFF05RA-B |
| 8 | MB12MWSAFF08RA-A | MB12MWSAFF08RA-B | MB12FWSAFF08RA-A | MB12FWSAFF08RA-B |

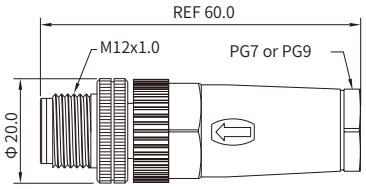
## Assembly Instruction



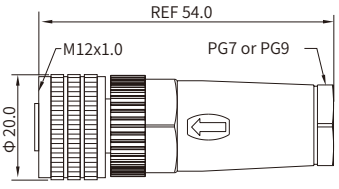
# M12 A-coding (Sensor and Actuator)

## M12 A-coding Straight Connector, Field Wirable Assembly, Screw joint, Al-alloy Screw/Nut

Male




Female




CE RoHS IP68

CE RoHS IP68

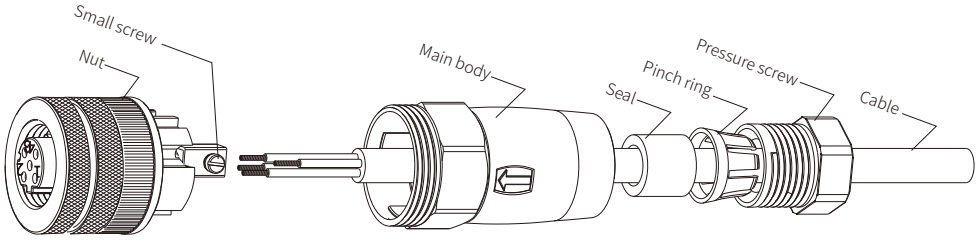
## Specifications

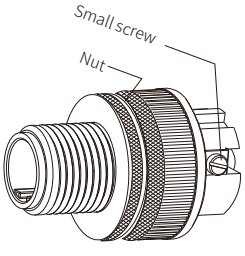
| Contacts | 3 | 4 | 5 | 8 |
|---|---|---|---|---|
| Certification | cULus LISTED CYJV(CYJV7).E321413 | | | |
| Pin layout(Male) | | | | |
| Pin layout(Female) | | | | |
| Standard | IEC 61076-2-101 | | | |
| Ambient temperature | -25°C~+90°C | | | |
| Connector insert | TPU | | | |
| Connector contacts | Brass with gold plated | | | |
| Connector body | PA+GF | | | |
| Coupling nut/screw | Aluminum Alloy anodized | | | |
| Seal/O-ring | FKM | | | |
| Insulation resistance | ⩾100MΩ | | | |
| Contact resistance | ⩽5mΩ | | | |
| Shielding | Unavailable | | | |
| Suitable cable Dia | PG7: 4~6mm / PG9: 6~8mm | | | |
| IP rating | IP67, IP68 in locked condition | | | |
| Mating endurance | >500 cycles | | | |
| Rated current | 4 A | | | 2A |
| Rated voltage | 250V AC/DC | | 60V AC/DC | 30V AC/DC |
| Wire gauge | 0.34mm² (AWG22) | | | 0.25mm² (AWG24) |

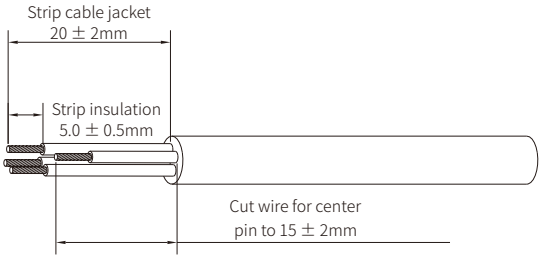
## Part Number

| Pins | Male | | Female | |
|---|---|---|---|---|
| | PG9 | PG7 | PG9 | PG7 |
| 3 | MB12MWAFF03ST-3 | MB12MWAFF03ST-4 | MB12FWAFF03ST-3 | MB12FWAFF03ST-4 |
| 4 | MB12MWAFF04ST-3 | MB12MWAFF04ST-4 | MB12FWAFF04ST-3 | MB12FWAFF04ST-4 |
| 5 | MB12MWAFF05ST-3 | MB12MWAFF05ST-4 | MB12FWAFF05ST-3 | MB12FWAFF05ST-4 |
| 8 | MB12MWAFF08ST-3 | MB12MWAFF08ST-4 | MB12FWAFF08ST-3 | MB12FWAFF08ST-4 |

## Assembly Instruction



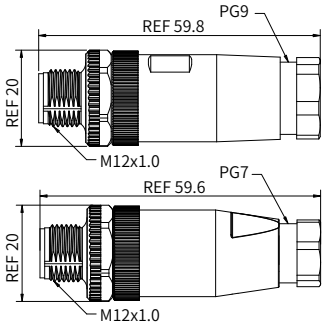



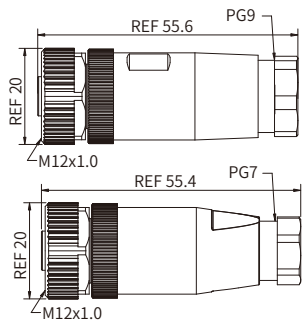
# M12 A-coding (Sensor and Actuator)

## M12 A-coding Straight Connector, Field Wirable Assembly, Screw joint

Male




Female



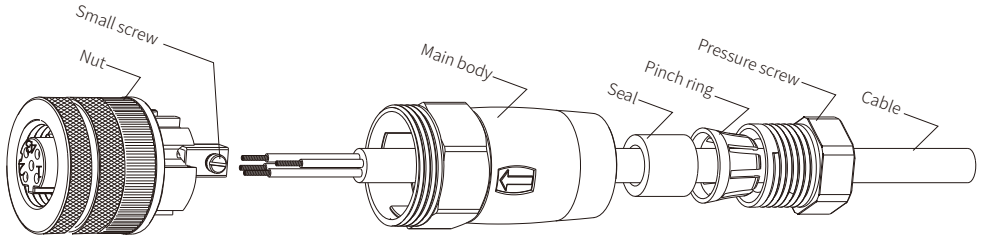

## Specifications

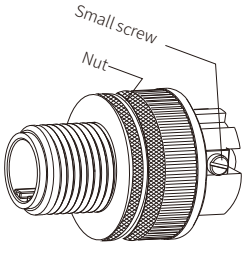
| Contacts | 3 | 4 | 5 | 8 |
|---|---|---|---|---|
| Certification | CYJV(CYJV7).E321413 | | | |
| Pin layout(Male) | | | | |
| Pin layout(Female) | | | | |
| Standard | IEC 61076-2-101 | | | |
| Ambient temperature | -25°C~+90°C | | | |
| Connector insert | PA | | | |
| Connector contacts | Brass with gold plated | | | |
| Connector body | PA+GF | | | |
| Coupling nut/screw | Zinc alloy with nickel plated | | | |
| Seal/O-ring | NBR | | | |
| Insulation resistance | ⩾100MΩ | | | |
| Contact resistance | ⩽5mΩ | | | |
| Shielding | Unavailable | | | |
| Suitable cable Dia | PG7: 4~6mm / PG9: 6~8mm | | | |
| IP rating | IP67, IP68 in locked condition | | | |
| Mating endurance | >500 cycles | | | |
| Rated current | 4 A | | | 2A |
| Rated voltage | 250V AC/DC | | 60V AC/DC | 30V AC/DC |
| Wire gauge | 0.34mm$^2$(AWG22) | | | 0.25mm$^2$(AWG24) |

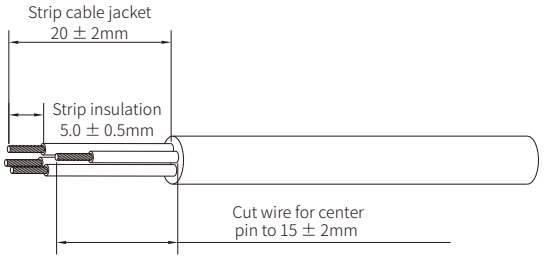
## Part Number

| Pins | Male | | Female | |
|---|---|---|---|---|
| | PG9 | PG7 | PG9 | PG7 |
| 3 | MB12MWAFHD03ST-3 | MB12MWAFHD03ST-4 | MB12FWAFHD03ST-3 | MB12FWAFHD03ST-4 |
| 4 | MB12MWAFHD04ST-3 | MB12MWAFHD04ST-4 | MB12FWAFHD04ST-3 | MB12FWAFHD04ST-4 |
| 5 | MB12MWAFHD05ST-3 | MB12MWAFHD05ST-4 | MB12FWAFHD05ST-3 | MB12FWAFHD05ST-4 |
| 8 | MB12MWAFHD08ST-3 | MB12MWAFHD08ST-4 | MB12FWAFHD08ST-3 | MB12FWAFHD08ST-4 |

## Assembly Instruction



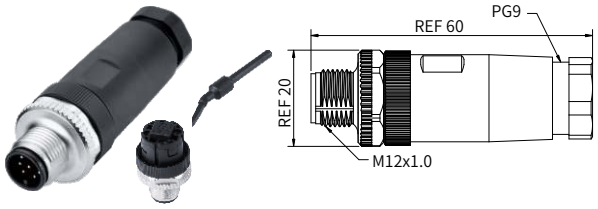



# M12 A-coding (Sensor and Actuator)

## M12 A-coding Straight Connector Field Wirable Assembly，Spring clamp terminals

Male

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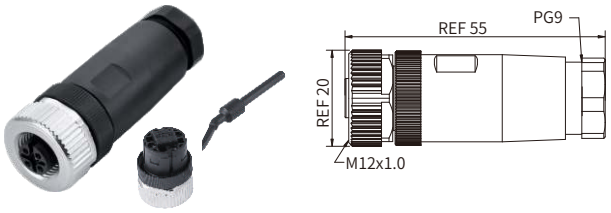
Female




CE RoHS

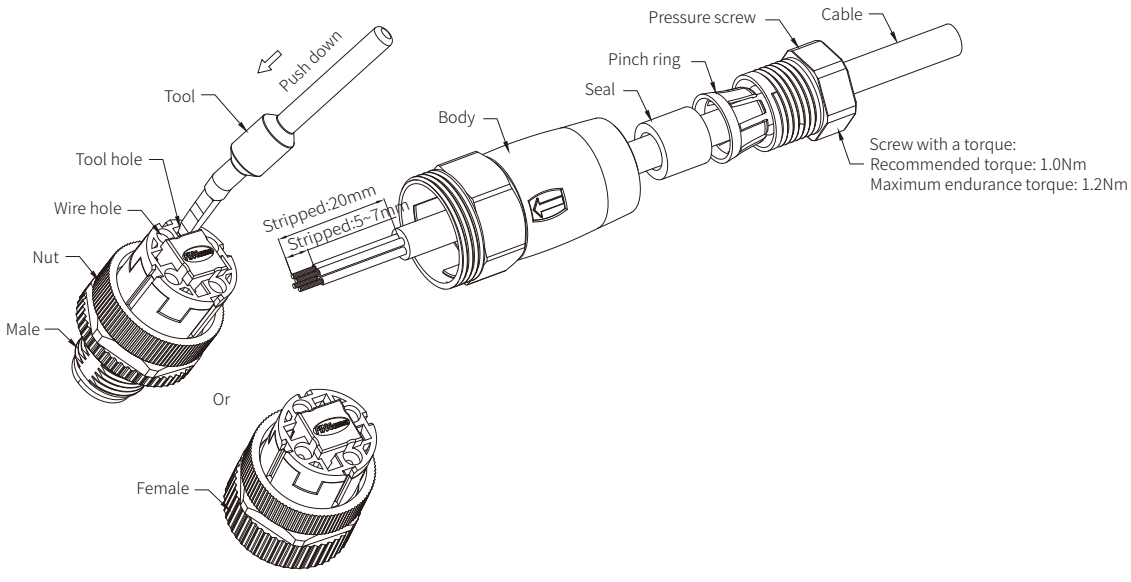
## Specifications

| Contacts | 3 | 4 |
|---|---|---|
| Pin layout(Male) | | |
| Pin layout(Female) | | |
| Standard | IEC 61076-2-101 | |
| Ambient temperature | -25°C~+90°C | |
| Connector insert | PBT+GF | |
| Connector contacts | Brass with gold plated | |
| Connector body | PA+GF | |
| Coupling nut/screw | Zinc alloy | |
| Seal/O-ring | NBR | |
| Insulation resistance | ⩾100MΩ | |
| Contact resistance | ⩽5mΩ | |
| Shielding | Unavailable | |
| Suitable cable Dia | PG7: 4~6mm / PG9: 6~8mm | |
| IP rating | IP67 In locked condition | |
| Mating endurance | >500 cycles | |
| Rated current | 4 A | |
| Rated voltage | 250V AC/DC | |
| Wire gauge | 0.34mm$^2$ (AWG22) | |

## Part Number

| Pins | Male | Female |
|---|---|---|
| 3 | MB12MSCAFHD03ST-3 | MB12FSCAFHD03ST-3 |
| 4 | MB12MSCAFHD04ST-3 | MB12FSCAFHD04ST-3 |

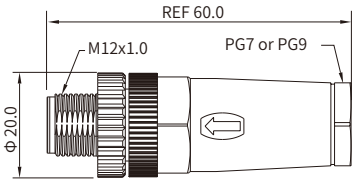
## Assembly Instruction



# M12 A-coding (Sensor and Actuator)

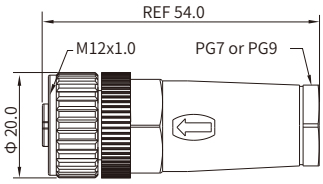
## M12 A-coding Straight Connector, Field Wirable Assembly, Screw joint, Plastic

Male




CE RoHS

Female




CE RoHS

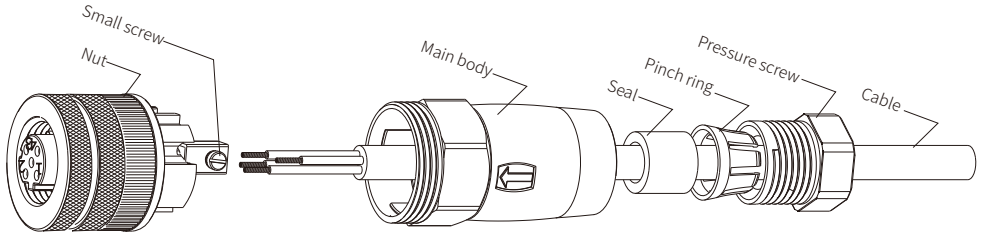
## Specifications

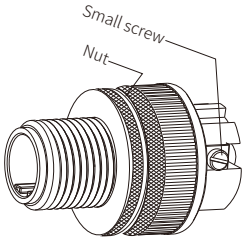
| Contacts | 3 | 4 | 5 | 8 |
|---|---|---|---|---|
| Certification | cULus LISTED CYJV(CYJV7).E321413 | | | |
| Pin layout(Male) | | | | |
| Pin layout(Female) | | | | |
| Standard | IEC 61076-2-101 | | | |
| Ambient temperature | -25°C~+90°C | | | |
| Connector insert | TPU | | | |
| Connector contacts | Brass with gold plated | | | |
| Connector body | PA+GF | | | |
| Coupling nut/screw | PA+GF | | | |
| Seal/O-ring | FKM | | | |
| Insulation resistance | ⩾100MΩ | | | |
| Contact resistance | ⩽5mΩ | | | |
| Shielding | Unavailable | | | |
| Suitable cable Dia | PG7: 4~6mm / PG9: 6~8mm | | | |
| IP rating | IP67, IP68 in locked condition | | | |
| Mating endurance | >500 cycles | | | |
| Rated current | 4 A | | | 2A |
| Rated voltage | 250V AC/DC | | 60V AC/DC | 30V AC/DC |
| Wire gauge | 0.34mm² (AWG22) | | | 0.25mm² (AWG24) |

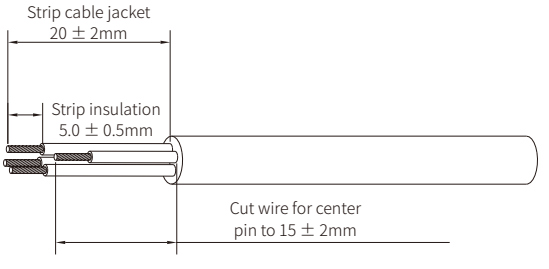
## Part Number

| Pins | Male | | Female | |
|---|---|---|---|---|
| | PG9 | PG7 | PG9 | PG7 |
| 3 | MB12MWAFP03ST-3 | MB12MWAFP03ST-4 | MB12FWAFP03ST-3 | MB12FWAFP03ST-4 |
| 4 | MB12MWAFP04ST-3 | MB12MWAFP04ST-4 | MB12FWAFP04ST-3 | MB12FWAFP04ST-4 |
| 5 | MB12MWAFP05ST-3 | MB12MWAFP05ST-4 | MB12FWAFP05ST-3 | MB12FWAFP05ST-4 |
| 8 | MB12MWAFP08ST-3 | MB12MWAFP08ST-4 | MB12FWAFP08ST-3 | MB12FWAFP08ST-4 |

## Assembly Instruction



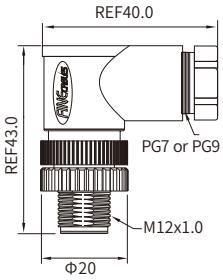



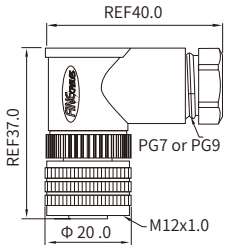
# M12 A-coding (Sensor and Actuator)

## M12 A-coding Angled Connector, Field Wirable Assembly, Screw joint, Al-alloy Screw/Nut

Male




Female



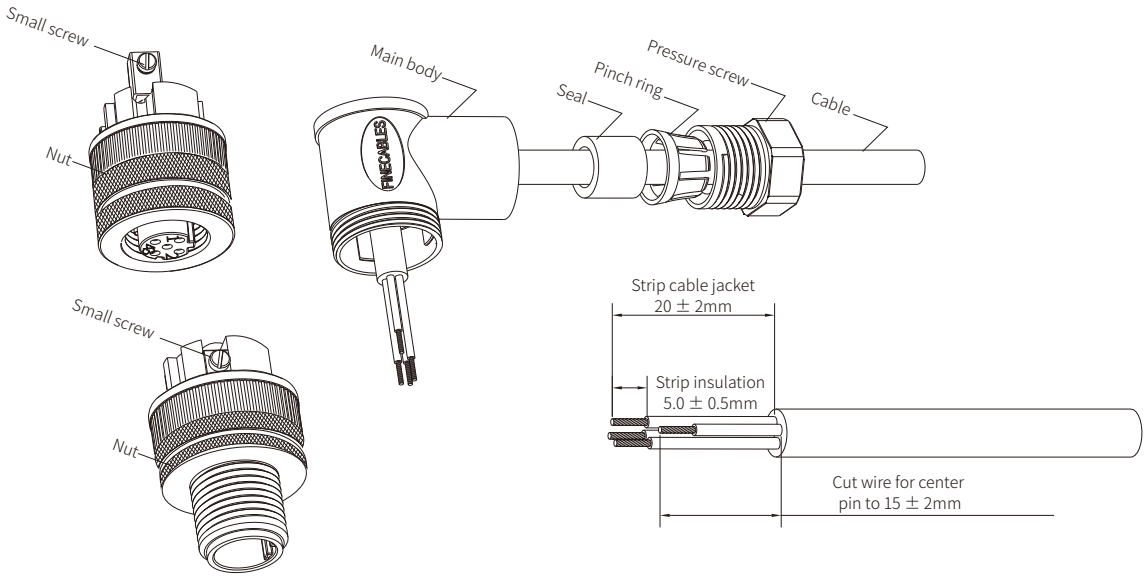

## Specifications

| Contacts | 3 | 4 | 5 | 8 |
|---|---|---|---|---|
| Certification | CYJV(CYJV7).E321413 | | | |
| Pin layout(Male) | | | | |
| Pin layout(Female) | | | | |
| Standard | IEC 61076-2-101 | | | |
| Ambient temperature | -25°C~+90°C | | | |
| Connector insert | TPU | | | |
| Connector contacts | Brass with gold plated | | | |
| Connector body | PA+GF | | | |
| Coupling nut/screw | Aluminum Alloy anodized | | | |
| Seal/O-ring | FKM | | | |
| Insulation resistance | ⩾100MΩ | | | |
| Contact resistance | ⩽5mΩ | | | |
| Shielding | Unavailable | | | |
| Suitable cable Dia | PG7: 4~6mm / PG9: 6~8mm | | | |
| IP rating | IP67, IP68 in locked condition | | | |
| Mating endurance | >500 cycles | | | |
| Rated current | 4 A | | | 2A |
| Rated voltage | 250V AC/DC | | 60V AC/DC | 30V AC/DC |
| Wire gauge | 0.34mm² (AWG22) | | | 0.25mm² (AWG24) |

## Part Number

| Pins | Male | | Female | |
|---|---|---|---|---|
| | PG9 | PG7 | PG9 | PG7 |
| 3 | MB12MWAFF03RA-3 | MB12MWAFF03RA-4 | MB12FWAFF03RA-3 | MB12FWAFF03RA-4 |
| 4 | MB12MWAFF04RA-3 | MB12MWAFF04RA-4 | MB12FWAFF04RA-3 | MB12FWAFF04RA-4 |
| 5 | MB12MWAFF05RA-3 | MB12MWAFF05RA-4 | MB12FWAFF05RA-3 | MB12FWAFF05RA-4 |
| 8 | MB12MWAFF08RA-3 | MB12MWAFF08RA-4 | MB12FWAFF08RA-3 | MB12FWAFF08RA-4 |

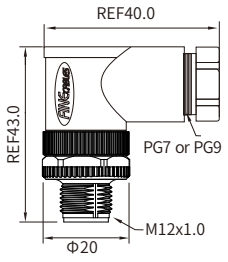
## Assembly Instruction



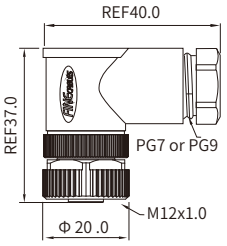
# M12 A-coding (Sensor and Actuator)

## M12 A-coding Angled Connector, Field Wirable Assembly, Screw joint, Die-cast Screw/Nut

Male




Female



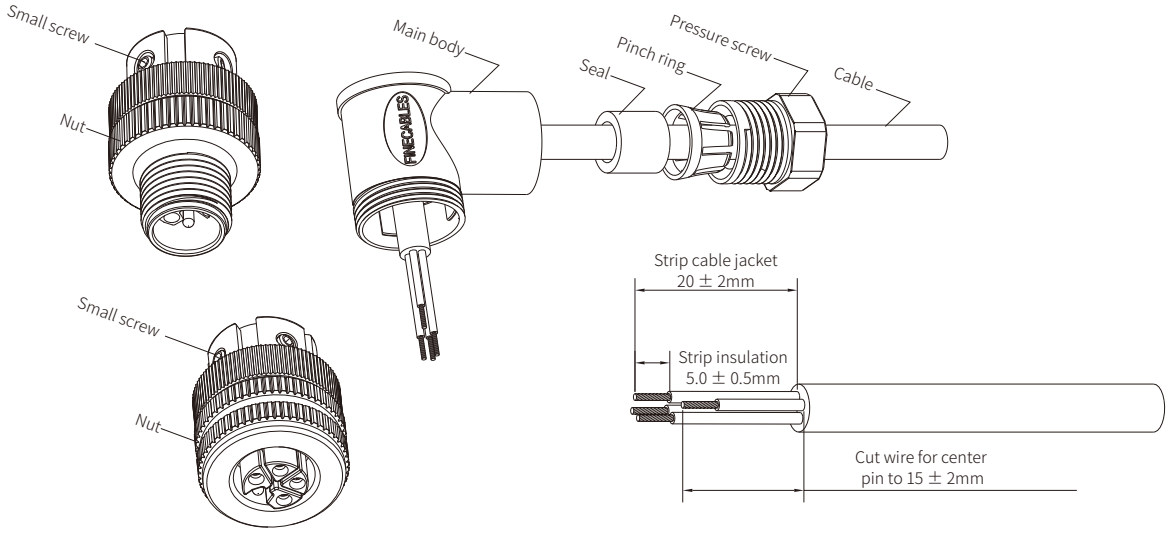

## Specifications

| Contacts | 3 | 4 | 5 | 8 |
|---|---|---|---|---|
| Certification | CYJV(CYJV7).E321413 | | | |
| Pin layout(Male) | | | | |
| Pin layout(Female) | | | | |
| Standard | IEC 61076-2-101 | | | |
| Ambient temperature | -25°C~+90°C | | | |
| Connector insert | TPU | | | |
| Connector contacts | Brass with gold plated | | | |
| Connector body | PA+GF | | | |
| Coupling nut/screw | Zinc alloy with nickel plated | | | |
| Seal/O-ring | NBR | | | |
| Insulation resistance | ⩾100MΩ | | | |
| Contact resistance | ⩽5mΩ | | | |
| Shielding | Unavailable | | | |
| Suitable cable Dia | PG7: 4~6mm / PG9: 6~8mm | | | |
| IP rating | IP67, IP68 in locked condition | | | |
| Mating endurance | >500 cycles | | | |
| Rated current | 4 A | | | 2A |
| Rated voltage | 250V AC/DC | | 60V AC/DC | 30V AC/DC |
| Wire gauge | 0.34mm² (AWG22) | | | 0.25mm² (AWG24) |

## Part Number

| Pins | Male | | Female | |
|---|---|---|---|---|
| | PG9 | PG7 | PG9 | PG7 |
| 3 | MB12MWAHD03RA-3 | MB12MWAHD03RA-4 | MB12FWAHD03RA-3 | MB12FWAHD03RA-4 |
| 4 | MB12MWAHD04RA-3 | MB12MWAHD04RA-4 | MB12FWAHD04RA-3 | MB12FWAHD04RA-4 |
| 5 | MB12MWAHD05RA-3 | MB12MWAHD05RA-4 | MB12FWAHD05RA-3 | MB12FWAHD05RA-4 |
| 8 | MB12MWAHD08RA-3 | MB12MWAHD08RA-4 | MB12FWAHD08RA-3 | MB12FWAHD08RA-4 |

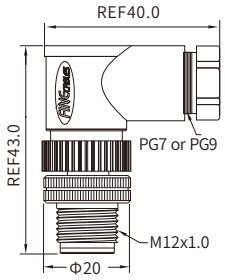
## Assembly Instruction



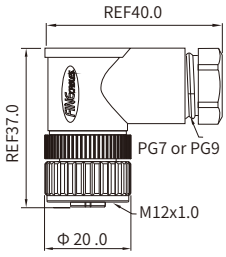
# M12 A-coding (Sensor and Actuator)

## M12 A-coding Angled Connector, Field Wirable Assembly, Screw joint, Plastic

Male




Female



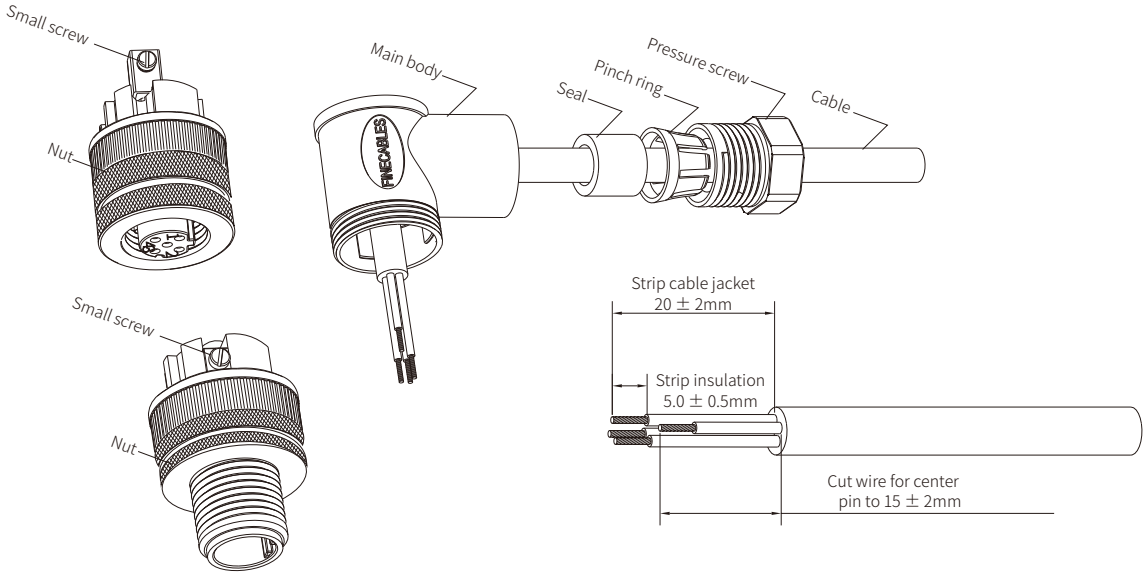

## Specifications

| Contacts | 3 | 4 | 5 | 8 |
|---|---|---|---|---|
| Certification | CYJV(CYJV7).E321413 | | | |
| Pin layout(Male) | | | | |
| Pin layout(Female) | | | | |
| Standard | IEC 61076-2-101 | | | |
| Ambient temperature | -25°C~+90°C | | | |
| Connector insert | TPU | | | |
| Connector contacts | Brass with gold plated | | | |
| Connector body | PA+GF | | | |
| Coupling nut/screw | PA+GF | | | |
| Seal/O-ring | FKM | | | |
| Insulation resistance | ⩾100MΩ | | | |
| Contact resistance | ⩽5mΩ | | | |
| Shielding | Unavailable | | | |
| Suitable cable Dia | PG7: 4~6mm / PG9: 6~8mm | | | |
| IP rating | IP67, IP68 in locked condition | | | |
| Mating endurance | >500 cycles | | | |
| Rated current | 4 A | | | 2A |
| Rated voltage | 250V AC/DC | | 60V AC/DC | 30V AC/DC |
| Wire gauge | 0.34mm² (AWG22) | | | 0.25mm² (AWG24) |

## Part Number

| Pins | Male | | Female | |
|---|---|---|---|---|
| | PG9 | PG7 | PG9 | PG7 |
| 3 | MB12MWAFP03RA-3 | MB12MWAFP03RA-4 | MB12FWAFP03RA-3 | MB12FWAFP03RA-4 |
| 4 | MB12MWAFP04RA-3 | MB12MWAFP04RA-4 | MB12FWAFP04RA-3 | MB12FWAFP04RA-4 |
| 5 | MB12MWAFP05RA-3 | MB12MWAFP05RA-4 | MB12FWAFP05RA-3 | MB12FWAFP05RA-4 |
| 8 | MB12MWAFP08RA-3 | MB12MWAFP08RA-4 | MB12FWAFP08RA-3 | MB12FWAFP08RA-4 |

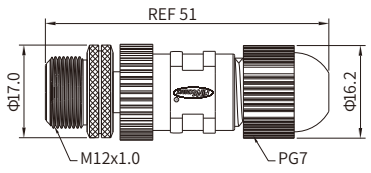
## Assembly Instruction



# M12 B-coding (Profibus)

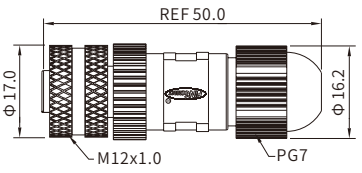
## M12 B-coding Straight Connector, Field Wirable Assembly, Solder

Male




CE RoHS

Female




CE RoHS

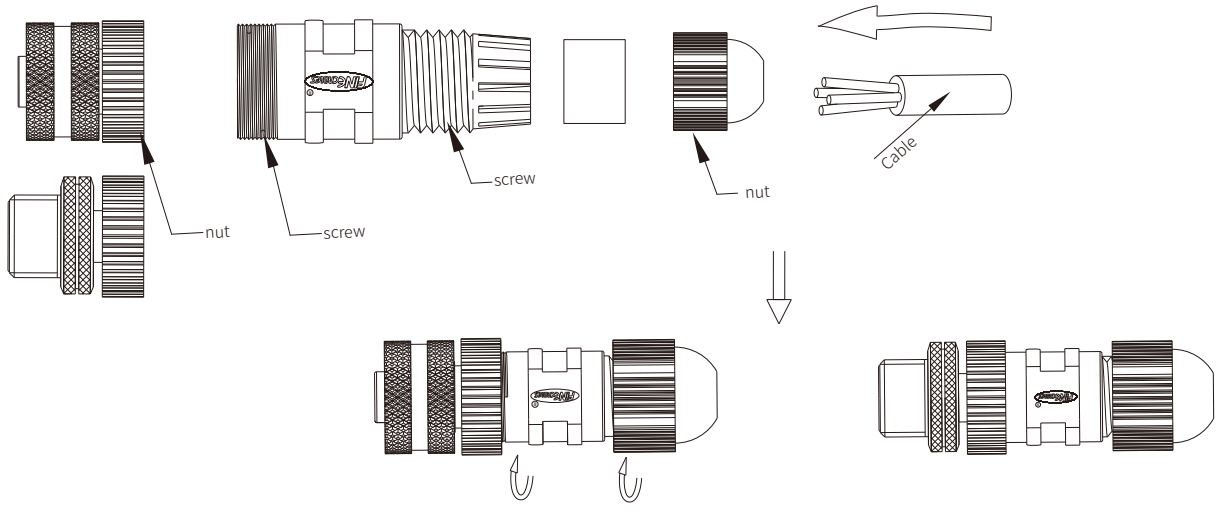
## Specifications

| Contacts | 3 | 4 | 5 |
|---|---|---|---|
| Pin layout(Male) | | | |
| Pin layout(Female) | | | |
| Standard | IEC 61076-2-101 | | |
| Ambient temperature | -25°C~+90°C | | |
| Connector insert | TPU | | |
| Connector contacts | Brass with gold plated | | |
| Connector body | PA | | |
| Coupling nut/screw | Brass with nickel plated | | |
| Seal/O-ring | FKM | | |
| Insulation resistance | ⩾100MΩ | | |
| Contact resistance | ⩽5mΩ | | |
| Shielding | Unavailable | | |
| Suitable cable Dia | 4~5.5mm | | |
| IP rating | IP65 in locked condition | | |
| Mating endurance | >500 cycles | | |
| Rated current | 4 A | | |
| Rated voltage | 250V AC/DC | | 60V AC/DC |
| Wire gauge | 0.34mm$^2$(AWG22) | | |

## Part Number

| Pins | Male | Female |
|---|---|---|
| 3 | MB12MABFF03ST | MB12FABFF03ST |
| 4 | MB12MABFF04ST | MB12FABFF04ST |
| 5 | MB12MABFF05ST | MB12FABFF05ST |

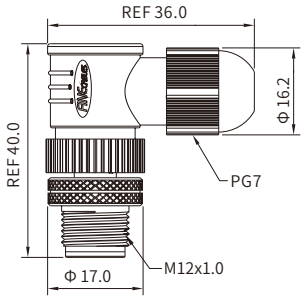
## Assembly Instruction



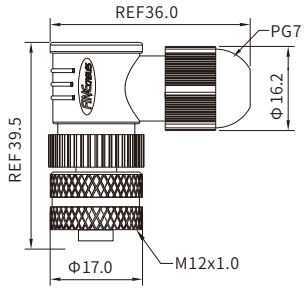
# M12 B-coding (Profibus)

## M12 B-coding Angled Connector, Field Wirable Assembly, Solder

Male




Female



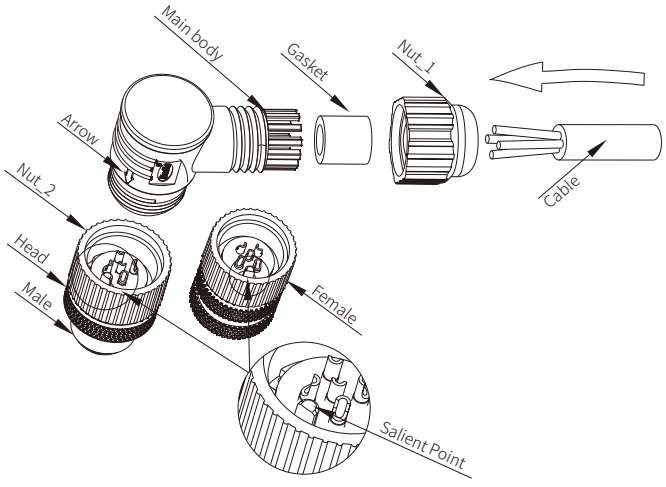

## Specifications

| Contacts | 3 | 4 | 5 |
|---|---|---|---|
| Pin layout(Male) | | | |
| Pin layout(Female) | | | |
| Standard | IEC 61076-2-101 | | |
| Ambient temperature | -25°C~+90°C | | |
| Connector insert | TPU | | |
| Connector contacts | Brass with gold plated | | |
| Connector body | PA | | |
| Coupling nut/screw | Brass with nickel plated | | |
| Seal/O-ring | FKM | | |
| Insulation resistance | ⩾100MΩ | | |
| Contact resistance | ⩽5mΩ | | |
| Shielding | Unavailable | | |
| Suitable cable Dia | 4~5.5mm | | |
| IP rating | IP67, IP68 in locked condition | | |
| Mating endurance | >500 cycles | | |
| Rated current | 4 A | | |
| Rated voltage | 250V AC/DC | | 60V AC/DC |
| Wire gauge | 0.34mm$^2$ (AWG22) | | |

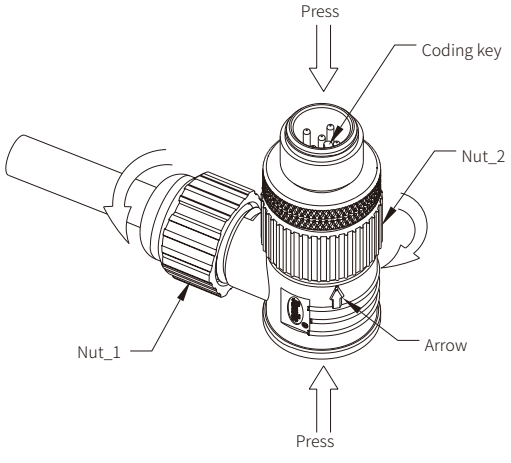
## Part Number

| Pins | Male | Female |
|---|---|---|
| 3 | MB12MABFF03RA | MB12FABFF03RA |
| 4 | MB12MABFF04RA | MB12FABFF04RA |
| 5 | MB12MABFF05RA | MB12FABFF05RA |

## Assembly Instruction




Picture 1

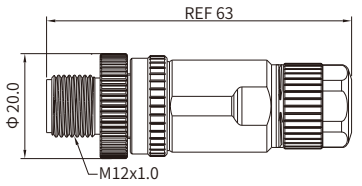



Picture 2

# M12 B-coding (Profibus)

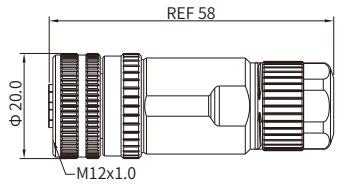
## M12 B-coding Straight Connector, Field Wirable Assembly, Screw joint, Shielded

Male




CE RoHS

Female




CE RoHS

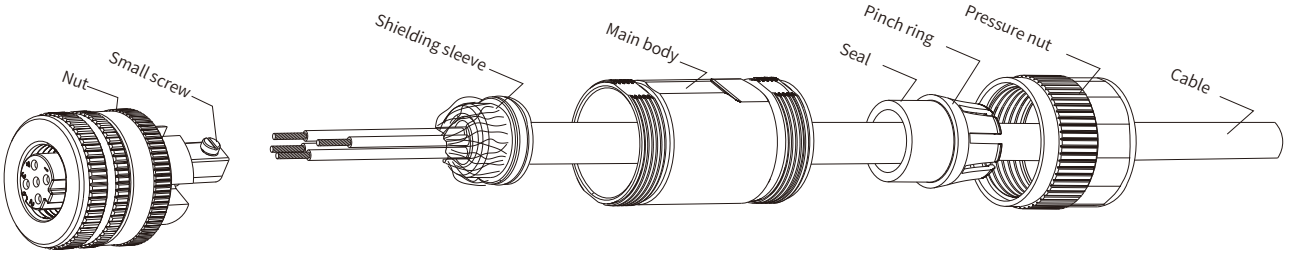
## Specifications

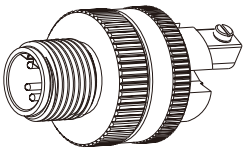
| Contacts | 3 | 4 | 5 |
|---|---|---|---|
| Certification | cULus LISTED CYJV(CYJV7).E321413 | | |
| Pin layout(Male) | | | |
| Pin layout(Female) | | | |
| Standard | IEC 61076-2-101 | | |
| Ambient temperature | -25°C~+90°C | | |
| Connector insert | TPU | | |
| Connector contacts | Brass with gold plated | | |
| Connector body | Zinc alloy with nickel plated | | |
| Coupling nut/screw | Brass with nickel plated | | |
| Seal/O-ring | FKM | | |
| Insulation resistance | ⩾100MΩ | | |
| Contact resistance | ⩽5mΩ | | |
| Shielding | Available | | |
| Suitable cable Dia | A: 4~6mm; B: 6~8mm | | |
| IP rating | IP67, IP68 in locked condition | | |
| Mating endurance | >500 cycles | | |
| Rated current | 4 A | | |
| Rated voltage | 250V AC/DC | | 60V AC/DC |
| Wire gauge | 0.34mm$^2$(AWG22) | | |

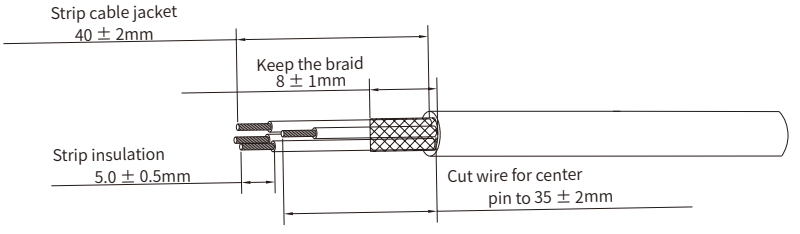
## Part Number

| Pins | Male | | Female | |
|---|---|---|---|---|
| | A | B | A | B |
| 3 | MB12MWSBFF03ST-A | MB12MWSBFF03ST-B | MB12FWSBFF03ST-A | MB12FWSBFF03ST-B |
| 4 | MB12MWSBFF04ST-A | MB12MWSBFF04ST-B | MB12FWSBFF04ST-A | MB12FWSBFF04ST-B |
| 5 | MB12MWSBFF05ST-A | MB12MWSBFF05ST-B | MB12FWSBFF05ST-A | MB12FWSBFF05ST-B |

## Assembly Instruction



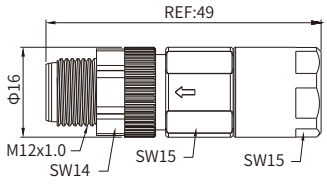





# M12 B-coding (Profibus)

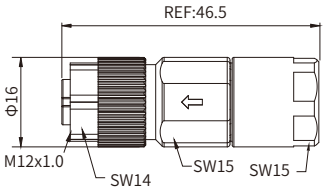
## M12 B-coding Straight Connector, Field Assembly, Crimp Type, Shielded

Male




CE RoHS

Female




CE RoHS

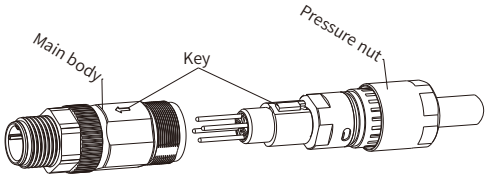
## Specifications

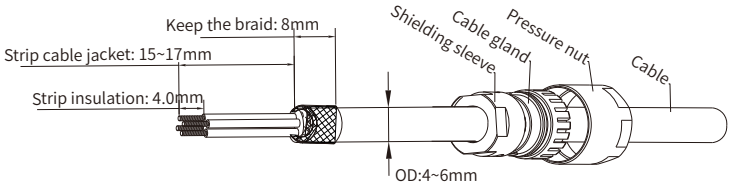
| Contacts | 3 | 4 | 5 |
|---|---|---|---|
| Pin layout(Male) | | | |
| Pin layout(Female) | | | |
| Standard | IEC 61076-2-101 | | |
| Ambient temperature | -25°C~+90°C | | |
| Connector insert | PA | | |
| Connector contacts | Brass with gold plated | | |
| Connector body | Zinc alloy with nickel plated | | |
| Coupling nut/screw | Brass with nickel plated | | |
| Seal/O-ring | FKM | | |
| Insulation resistance | ⩾100MΩ | | |
| Contact resistance | ⩽5mΩ | | |
| Shielding | Available | | |
| Suitable cable Dia | A: 4~6mm; B: 6~8mm | | |
| IP rating | IP67, IP68 in locked condition | | |
| Mating endurance | >500 cycles | | |
| Rated current | 4 A | | |
| Rated voltage | 250V AC/DC | | 60V AC/DC |
| Wire gauge | 0.25~0.5mm$^2$ (AWG24~20) | | |

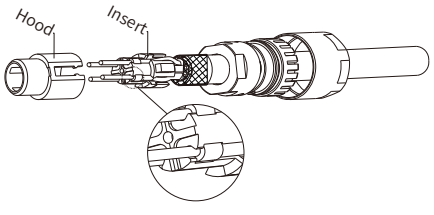
## Part Number

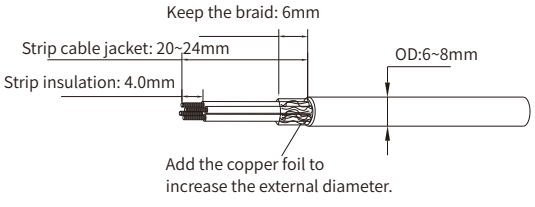
| Pins | Male | | Female | |
|---|---|---|---|---|
| | A | B | A | B |
| 3 | MB12MCSBFF03ST-A | MB12MCSBFF03ST-B | MB12FCSBFF03ST-A | MB12FCSBFF03ST-B |
| 4 | MB12MCSBFF04ST-A | MB12MCSBFF04ST-B | MB12FCSBFF04ST-A | MB12FCSBFF04ST-B |
| 5 | MB12MCSBFF05ST-A | MB12MCSBFF05ST-B | MB12FCSBFF05ST-A | MB12FCSBFF05ST-B |

## Assembly Instruction



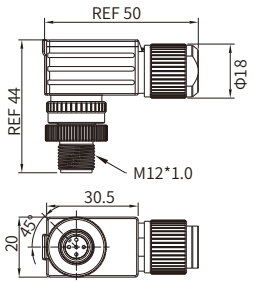



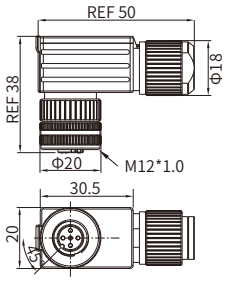
# M12 B-coding (Profibus)

## M12 B-coding Angled Connector, Field Wirable Assembly, Screw joint, Shielded with Die-cast body

Male




Female



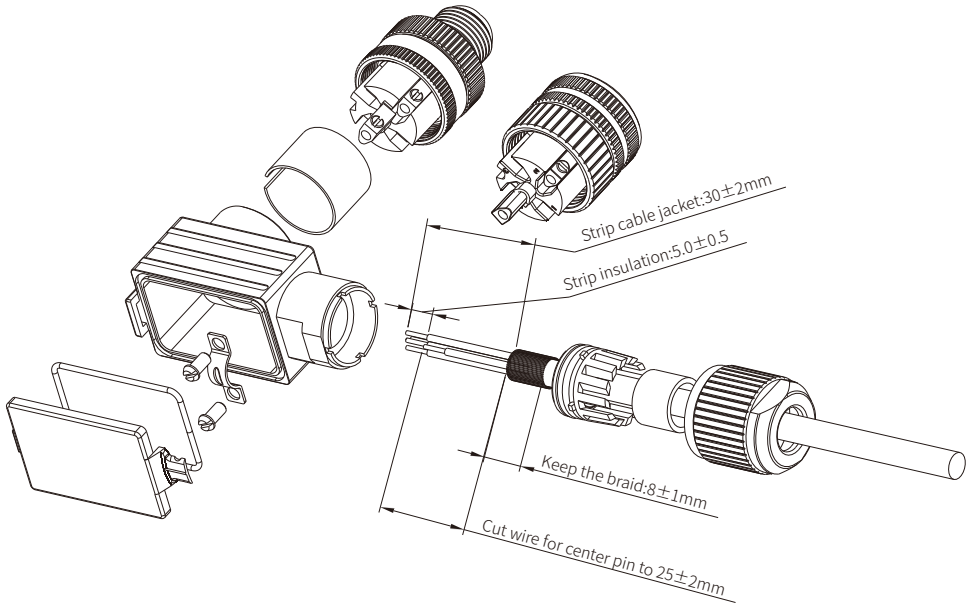

## Specifications

| Contacts | 3 | 4 | 5 |
|---|---|---|---|
| Certification | cULus LISTED CYJV(CYJV7).E321413 | | |
| Pin layout(Male) | | | |
| Pin layout(Female) | | | |
| Standard | IEC 61076-2-101 | | |
| Ambient temperature | -25°C~+90°C | | |
| Connector insert | TPU | | |
| Connector contacts | Brass with gold plated | | |
| Connector body | Zinc alloy with nickel plated | | |
| Coupling nut/screw | Brass with nickel plated | | |
| Seal/O-ring | FKM | | |
| Insulation resistance | ⩾100MΩ | | |
| Contact resistance | ⩽5mΩ | | |
| Shielding | Available | | |
| Suitable cable Dia | A: 4~6mm; B: 6~8mm | | |
| IP rating | IP67, IP68 in locked condition | | |
| Mating endurance | >500 cycles | | |
| Rated current | 4 A | | |
| Rated voltage | 250V AC/DC | | 60V AC/DC |
| Wire gauge | 0.34mm$^2$(AWG22) | | |

## Part Number

| Pins | Male | | Female | |
|---|---|---|---|---|
| | A | B | A | B |
| 3 | MB12MWSBFF03RA-A | MB12MWSBFF03RA-B | MB12FWSBFF03RA-A | MB12FWSBFF03RA-B |
| 4 | MB12MWSBFF04RA-A | MB12MWSBFF04RA-B | MB12FWSBFF04RA-A | MB12FWSBFF04RA-B |
| 5 | MB12MWSBFF05RA-A | MB12MWSBFF05RA-B | MB12FWSBFF05RA-A | MB12FWSBFF05RA-B |

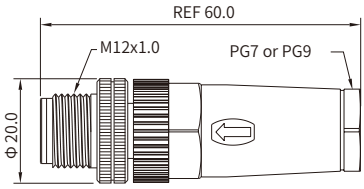
## Assembly Instruction



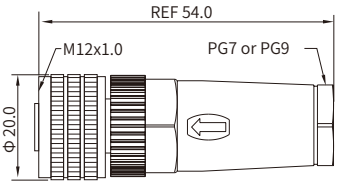
# M12 B-coding (Profibus)

## M12 B-coding Straight Connector, Field Wirable Assembly, Screw joint, Al-alloy Screw/Nut

Male




Female




CE RoHS IP68

CE RoHS IP68

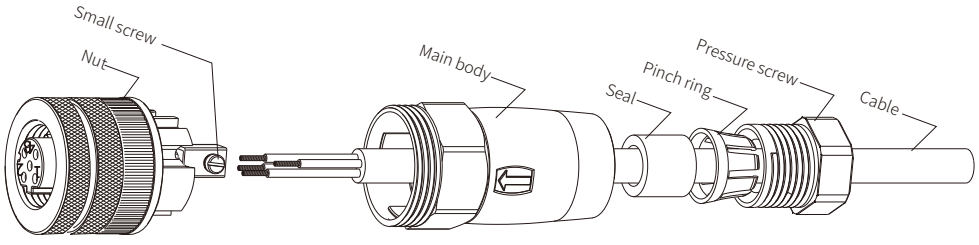
## Specifications

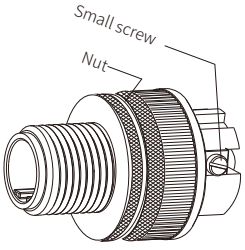
| Contacts | 3 | 4 | 5 |
|---|---|---|---|
| Certification | cULus LISTED CYJV(CYJV7).E321413 | | |
| Pin layout(Male) | | | |
| Pin layout(Female) | | | |
| Standard | IEC 61076-2-101 | | |
| Ambient temperature | -25°C~+90°C | | |
| Connector insert | TPU | | |
| Connector contacts | Brass with gold plated | | |
| Connector body | PA+GF | | |
| Coupling nut/screw | Aluminum Alloy anodized | | |
| Seal/O-ring | FKM | | |
| Insulation resistance | ⩾100MΩ | | |
| Contact resistance | ⩽5mΩ | | |
| Shielding | Unavailable | | |
| Suitable cable Dia | PG7: 4~6mm / PG9: 6~8mm | | |
| IP rating | IP67, IP68 in locked condition | | |
| Mating endurance | >500 cycles | | |
| Rated current | 4 A | | |
| Rated voltage | 250V AC/DC | | 60V AC/DC |
| Wire gauge | 0.34mm² (AWG22) | | |

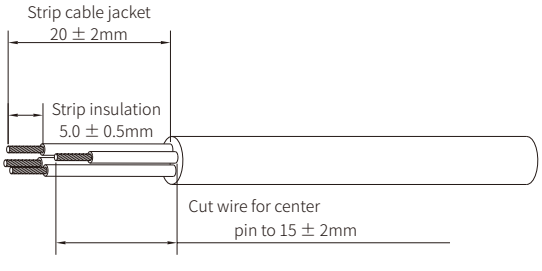
## Part Number

| Pins | Male | | Female | |
|---|---|---|---|---|
| | PG9 | PG7 | PG9 | PG7 |
| 3 | MB12MWBFF03ST-3 | MB12MWBFF03ST-4 | MB12FWBFF03ST-3 | MB12FWBFF03ST-4 |
| 4 | MB12MWBFF04ST-3 | MB12MWBFF04ST-4 | MB12FWBFF04ST-3 | MB12FWBFF04ST-4 |
| 5 | MB12MWBFF05ST-3 | MB12MWBFF05ST-4 | MB12FWBFF05ST-3 | MB12FWBFF05ST-4 |

## Assembly Instruction



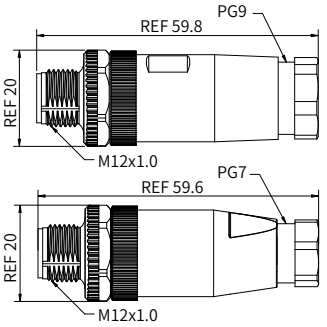



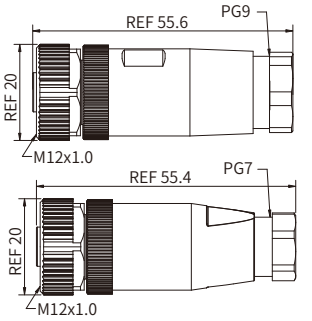
# M12 B-coding (Profibus)

## M12 B-coding Straight Connector, Field Wirable Assembly, Screw joint, Al-alloy Screw/Nut

Male




Female



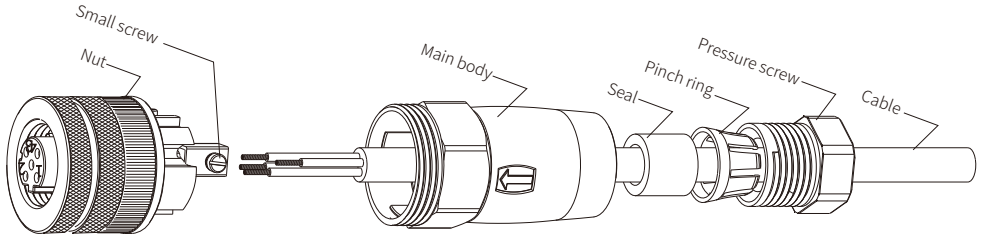

## Specifications

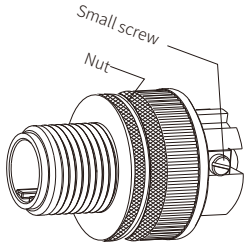
| Contacts | 3 | 4 | 5 |
|---|---|---|---|
| Certification | CYJV(CYJV7).E321413 | | |
| Pin layout(Male) | | | |
| Pin layout(Female) | | | |
| Standard | IEC 61076-2-101 | | |
| Ambient temperature | -25°C~+90°C | | |
| Connector insert | PA | | |
| Connector contacts | Brass with gold plated | | |
| Connector body | PA+GF | | |
| Coupling nut/screw | Zinc alloy with nickel plated | | |
| Seal/O-ring | NBR | | |
| Insulation resistance | ⩾100MΩ | | |
| Contact resistance | ⩽5mΩ | | |
| Shielding | Unavailable | | |
| Suitable cable Dia | PG7: 4~6mm / PG9: 6~8mm | | |
| IP rating | IP67, IP68 in locked condition | | |
| Mating endurance | >500 cycles | | |
| Rated current | 4 A | | |
| Rated voltage | 250V AC/DC | | 60V AC/DC |
| Wire gauge | 0.34mm$^2$(AWG22) | | |

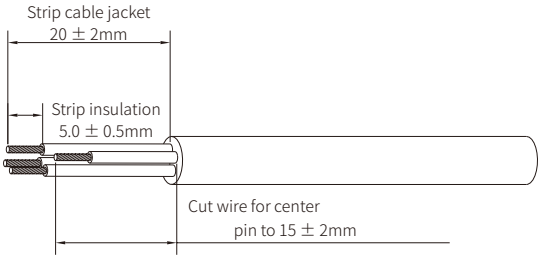
## Part Number

| Pins | Male | | Female | |
|---|---|---|---|---|
| | PG9 | PG7 | PG9 | PG7 |
| 3 | MB12MWBFHD03ST-3 | MB12MWBFHD03ST-4 | MB12FWBFHD03ST-3 | MB12FWBFHD03ST-4 |
| 4 | MB12MWBFHD04ST-3 | MB12MWBFHD04ST-4 | MB12FWBFHD04ST-3 | MB12FWBFHD04ST-4 |
| 5 | MB12MWBFHD05ST-3 | MB12MWBFHD05ST-4 | MB12FWBFHD05ST-3 | MB12FWBFHD05ST-4 |

## Assembly Instruction



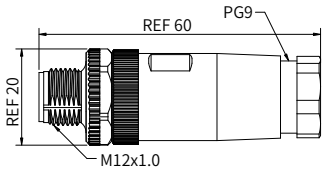



# M12 B-coding (Profibus)

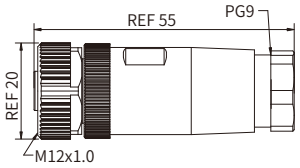
## M12 B-coding Straight Connector Field Wirable Assembly, Spring clamp terminals

Male




CE RoHS

Female




CE RoHS

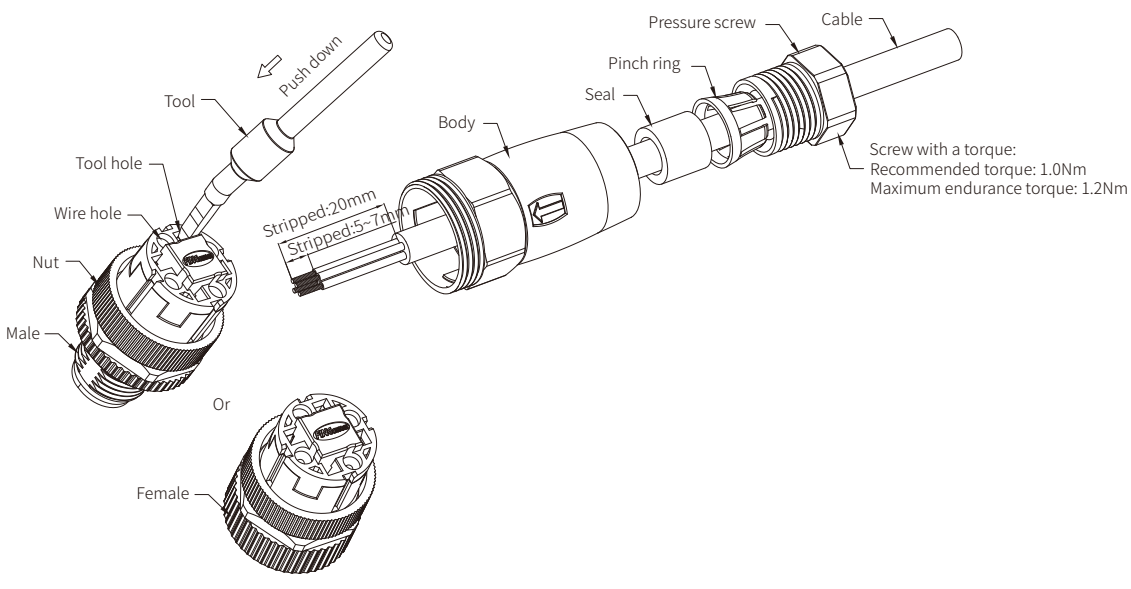
## Specifications

| Contacts | 3 | 4 |
|---|---|---|
| Pin layout(Male) | | |
| Pin layout(Female) | | |
| Standard | IEC 61076-2-101 | |
| Ambient temperature | -25°C~+90°C | |
| Connector insert | PBT+GF | |
| Connector contacts | Brass with gold plated | |
| Connector body | PA+GF | |
| Coupling nut/screw | Zinc alloy | |
| Seal/O-ring | NBR | |
| Insulation resistance | ⩾100MΩ | |
| Contact resistance | ⩽5mΩ | |
| Shielding | Unavailable | |
| Suitable cable Dia | PG7: 4~6mm / PG9: 6~8mm | |
| IP rating | IP67 In locked condition | |
| Mating endurance | >500 cycles | |
| Rated current | 4 A | |
| Rated voltage | 250V AC/DC | |
| Wire gauge | 0.34mm$^2$ (AWG22) | |

## Part Number

| Pins | Male | Female |
|---|---|---|
| 3 | MB12MSCBFHD03ST-3 | MB12FSCBFHD03ST-3 |
| 4 | MB12MSCBFHD04ST-3 | MB12FSCBFHD04ST-3 |

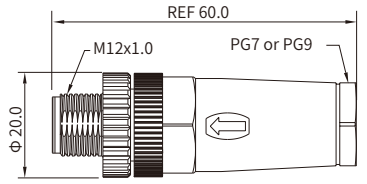
## Assembly Instruction



# M12 B-coding (Profibus)

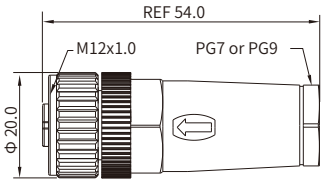
## M12 B-coding Straight Connector, Field Wirable Assembly, Screw joint, Plastic

Male




CE RoHS

Female




CE RoHS

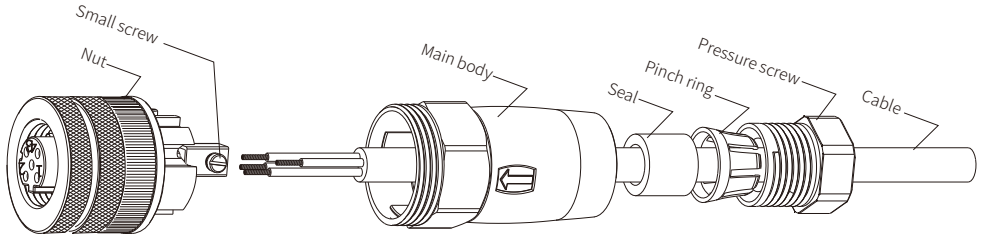
## Specifications

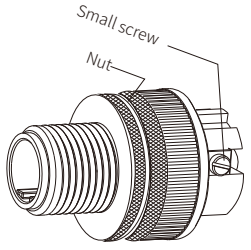
| Contacts | 3 | 4 | 5 |
|---|---|---|---|
| Certification | cULus LISTED CYJV(CYJV7).E321413 | | |
| Pin layout(Male) | | | |
| Pin layout(Female) | | | |
| Standard | IEC 61076-2-101 | | |
| Ambient temperature | -25°C~+90°C | | |
| Connector insert | TPU | | |
| Connector contacts | Brass with gold plated | | |
| Connector body | PA+GF | | |
| Coupling nut/screw | PA+GF | | |
| Seal/O-ring | FKM | | |
| Insulation resistance | ⩾100MΩ | | |
| Contact resistance | ⩽5mΩ | | |
| Shielding | Unavailable | | |
| Suitable cable Dia | PG7: 4~6mm / PG9: 6~8mm | | |
| IP rating | IP67, IP68 in locked condition | | |
| Mating endurance | >500 cycles | | |
| Rated current | 4 A | | |
| Rated voltage | 250V AC/DC | | 60V AC/DC |
| Wire gauge | 0.34mm²(AWG22) | | |

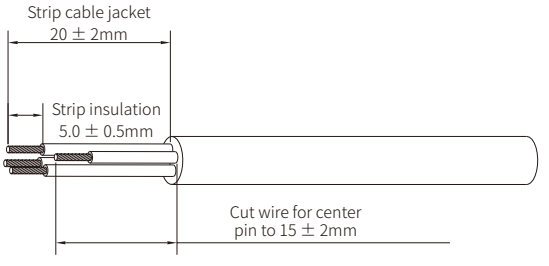
## Part Number

| Pins | Male | | Female | |
|---|---|---|---|---|
| | PG9 | PG7 | PG9 | PG7 |
| 3 | MB12MWBFP03ST-3 | MB12MWBFP03ST-4 | MB12FWBFP03ST-3 | MB12FWBFP03ST-4 |
| 4 | MB12MWBFP04ST-3 | MB12MWBFP04ST-4 | MB12FWBFP04ST-3 | MB12FWBFP04ST-4 |
| 5 | MB12MWBFP05ST-3 | MB12MWBFP05ST-4 | MB12FWBFP05ST-3 | MB12FWBFP05ST-4 |

## Assembly Instruction



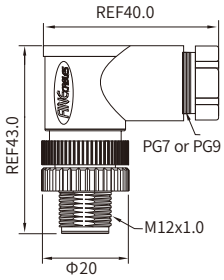



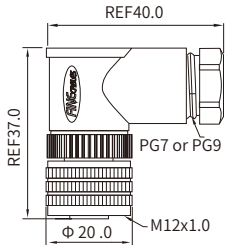
# M12 B-coding (Profibus)

## M12 B-coding Angled Connector, Field Wirable Assembly, Screw joint, Al-alloy Screw/Nut

Male




Female



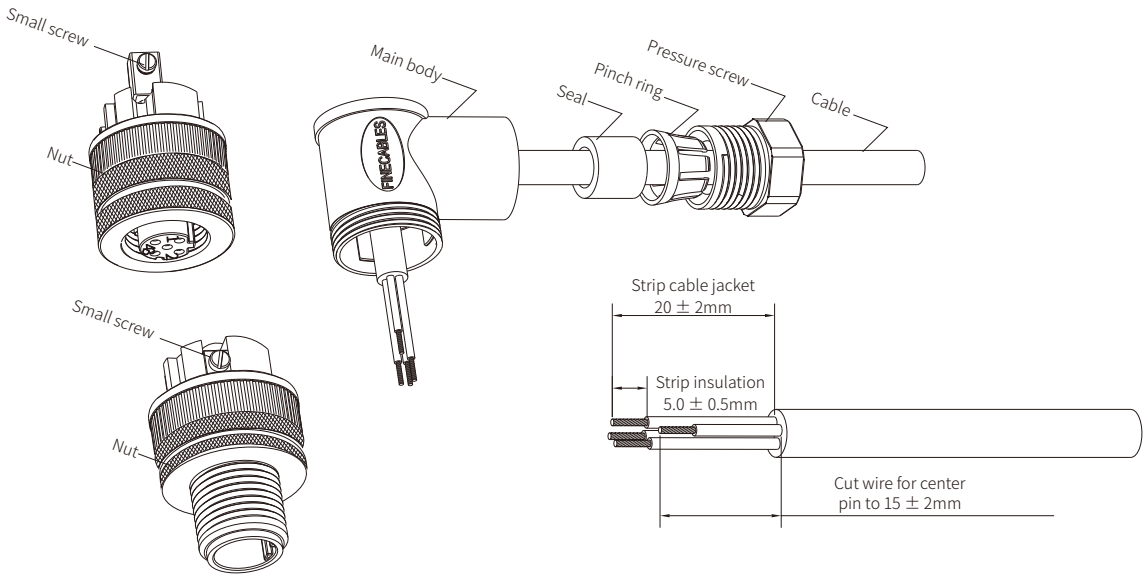

## Specifications

| Contacts | 3 | 4 | 5 |
|---|---|---|---|
| Certification | CYJV(CYJV7).E321413 | | |
| Pin layout(Male) | | | |
| Pin layout(Female) | | | |
| Standard | IEC 61076-2-101 | | |
| Ambient temperature | -25°C~+90°C | | |
| Connector insert | TPU | | |
| Connector contacts | Brass with gold plated | | |
| Connector body | PA+GF | | |
| Coupling nut/screw | Aluminum Alloy anodized | | |
| Seal/O-ring | FKM | | |
| Insulation resistance | ⩾100MΩ | | |
| Contact resistance | ⩽5mΩ | | |
| Shielding | Unavailable | | |
| Suitable cable Dia | PG7: 4~6mm / PG9: 6~8mm | | |
| IP rating | IP67, IP68 in locked condition | | |
| Mating endurance | >500 cycles | | |
| Rated current | 4 A | | |
| Rated voltage | 250V AC/DC | | 60V AC/DC |
| Wire gauge | 0.34mm² (AWG22) | | |

## Part Number

| Pins | Male | | Female | |
|---|---|---|---|---|
| | PG9 | PG7 | PG9 | PG7 |
| 3 | MB12MWBFF03RA-3 | MB12MWBFF03RA-4 | MB12FWBFF03RA-3 | MB12FWBFF03RA-4 |
| 4 | MB12MWBFF04RA-3 | MB12MWBFF04RA-4 | MB12FWBFF04RA-3 | MB12FWBFF04RA-4 |
| 5 | MB12MWBFF05RA-3 | MB12MWBFF05RA-4 | MB12FWBFF05RA-3 | MB12FWBFF05RA-4 |

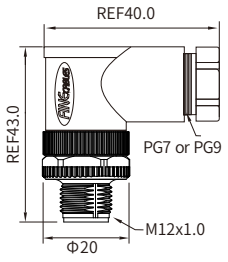
## Assembly Instruction



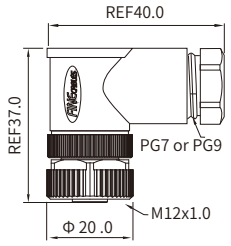
# M12 B-coding (Profibus)

## M12 B-coding Angled Connector, Field Wirable Assembly, Screw joint, Die-cast Screw/Nut

Male




Female



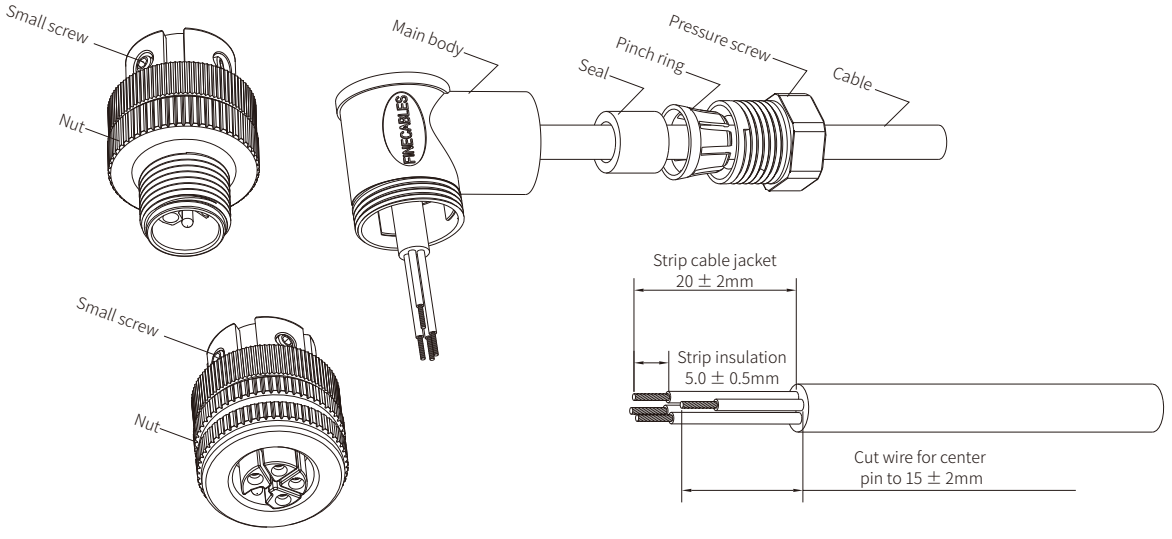

## Specifications

| Contacts | 3 | 4 | 5 |
|---|---|---|---|
| Certification | CYJV(CYJV7).E321413 | | |
| Pin layout(Male) | | | |
| Pin layout(Female) | | | |
| Standard | IEC 61076-2-101 | | |
| Ambient temperature | -25°C~+90°C | | |
| Connector insert | TPU | | |
| Connector contacts | Brass with gold plated | | |
| Connector body | PA+GF | | |
| Coupling nut/screw | Zinc alloy with nickel plated | | |
| Seal/O-ring | NBR | | |
| Insulation resistance | ⩾100MΩ | | |
| Contact resistance | ⩽5mΩ | | |
| Shielding | Unavailable | | |
| Suitable cable Dia | PG7: 4~6mm / PG9: 6~8mm | | |
| IP rating | IP67, IP68 in locked condition | | |
| Mating endurance | >500 cycles | | |
| Rated current | 4 A | | |
| Rated voltage | 250V AC/DC | | 60V AC/DC |
| Wire gauge | 0.34mm$^2$(AWG22) | | |

## Part Number

| Pins | Male | | Female | |
|---|---|---|---|---|
| | PG9 | PG7 | PG9 | PG7 |
| 3 | MB12MWBHD03RA-3 | MB12MWBHD03RA-4 | MB12FWBHD03RA-3 | MB12FWBHD03RA-4 |
| 4 | MB12MWBHD04RA-3 | MB12MWBHD04RA-4 | MB12FWBHD04RA-3 | MB12FWBHD04RA-4 |
| 5 | MB12MWBHD05RA-3 | MB12MWBHD05RA-4 | MB12FWBHD05RA-3 | MB12FWBHD05RA-4 |

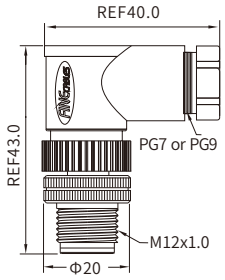
## Assembly Instruction



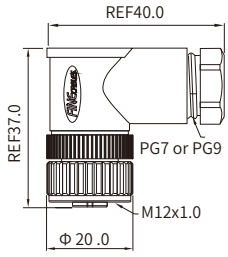
# M12 B-coding (Profibus)

## M12 B-coding Angled Connector, Field Wirable Assembly, Screw joint, Plastic

Male




Female



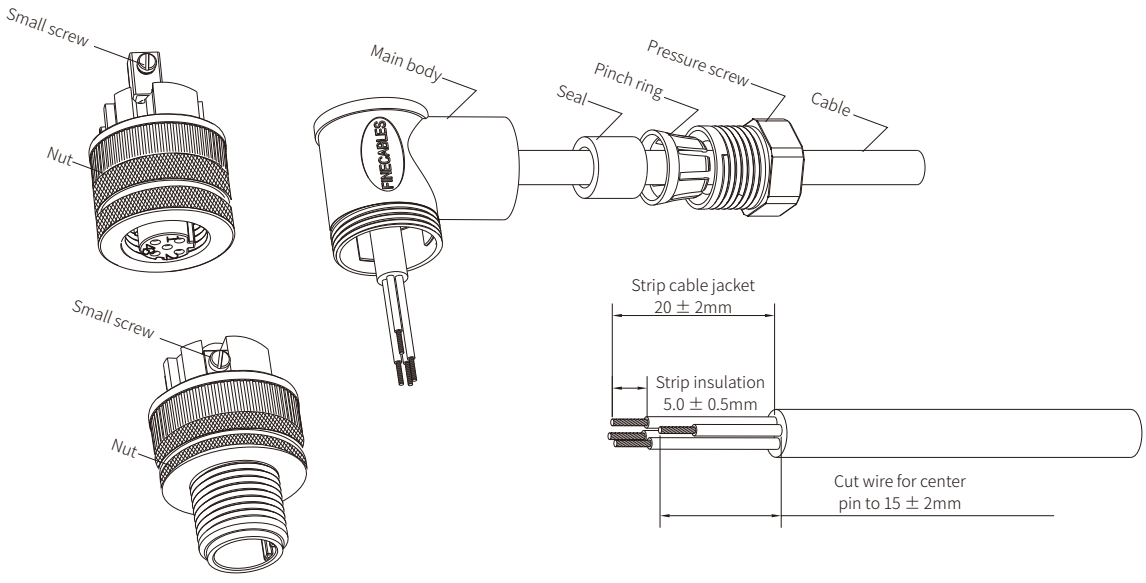

## Specifications

| Contacts | 3 | 4 | 5 |
|---|---|---|---|
| Certification | CYJV(CYJV7).E321413 | | |
| Pin layout(Male) | | | |
| Pin layout(Female) | | | |
| Standard | IEC 61076-2-101 | | |
| Ambient temperature | -25°C~+90°C | | |
| Connector insert | TPU | | |
| Connector contacts | Brass with gold plated | | |
| Connector body | PA+GF | | |
| Coupling nut/screw | PA+GF | | |
| Seal/O-ring | FKM | | |
| Insulation resistance | ⩾100MΩ | | |
| Contact resistance | ⩽5mΩ | | |
| Shielding | Unavailable | | |
| Suitable cable Dia | PG7: 4~6mm / PG9: 6~8mm | | |
| IP rating | IP67, IP68 in locked condition | | |
| Mating endurance | >500 cycles | | |
| Rated current | 4 A | | |
| Rated voltage | 250V AC/DC | | 60V AC/DC |
| Wire gauge | 0.34mm² (AWG22) | | |

## Part Number

| Pins | Male | | Female | |
|---|---|---|---|---|
| | PG9 | PG7 | PG9 | PG7 |
| 3 | MB12MWBFP03RA-3 | MB12MWBFP03RA-4 | MB12FWBFP03RA-3 | MB12FWBFP03RA-4 |
| 4 | MB12MWBFP04RA-3 | MB12MWBFP04RA-4 | MB12FWBFP04RA-3 | MB12FWBFP04RA-4 |
| 5 | MB12MWBFP05RA-3 | MB12MWBFP05RA-4 | MB12FWBFP05RA-3 | MB12FWBFP05RA-4 |

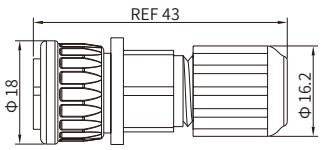
## Assembly Instruction



# M12 Quick-lock

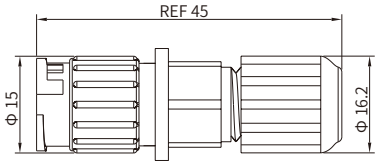
## M12 Quick-lock Type, Straight Connector, Field Wirable Assembly, With Fix-cap

Male




CE RoHS

Female




CE RoHS

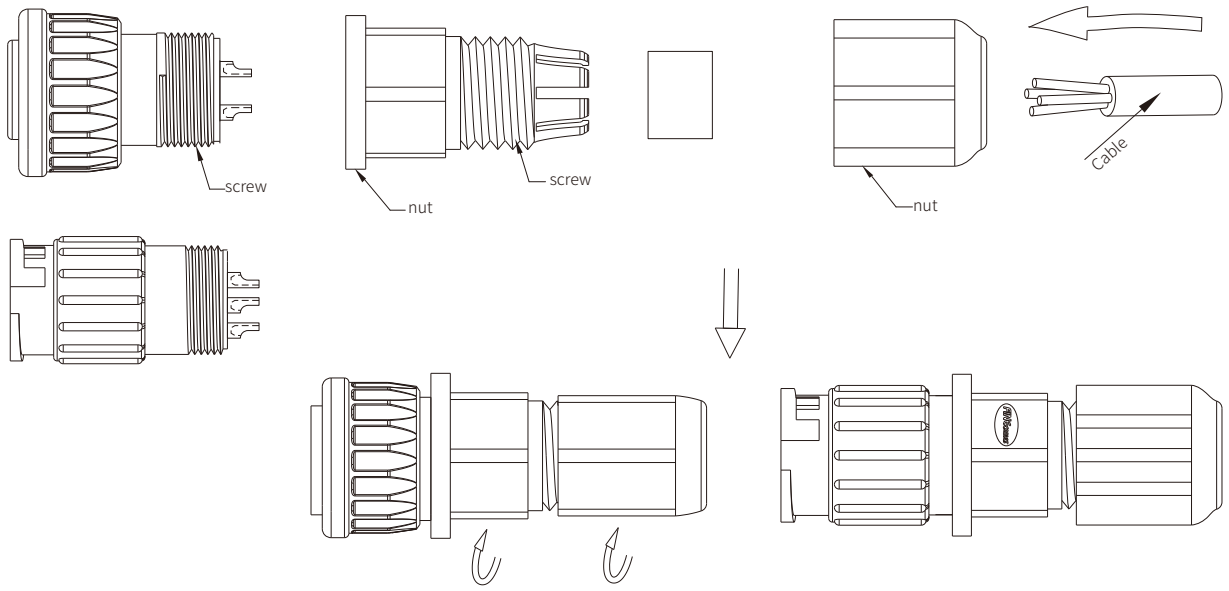
## Specifications

| Contacts | 4 | 6 |
|---|---|---|
| Pin layout(Male) | | |
| Pin layout(Female) | | |
| Ambient temperature | -25°C~+90°C | |
| Connector insert | PA+GF | |
| Connector contacts | Brass with gold plated | |
| Connector body | PA | |
| Quick-lock Fix-cap(of Male) | PA | |
| Seal/O-ring | FKM | |
| Insulation resistance | ⩾100MΩ | |
| Contact resistance | ⩽5mΩ | |
| Shielding | Unavailable | |
| Suitable cable Dia | 3.0~6.0mm | |
| IP rating | IP65, IP67, IP68 in locked condition | |
| Mating endurance | >500 cycles | |
| Rated current | 4 A | |
| Rated voltage | 250V AC/ DC | 60V AC/DC |
| Wire gauge | 0.34 $mm^2$ (AWG 22) | |

## Part Number

| Pins | Male | Female |
|---|---|---|
| 4 | MB12MAAFQ04ST | MB12FAAFQ04ST |
| 6 | MB12MAAFQ06ST | MB12FAAFQ06ST |

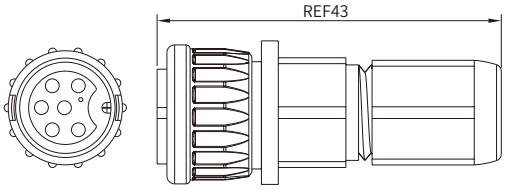
## Assembly Instruction



# M12 Quick-lock

## M12 Quick-lock Type, Straight Connector, Field Wirable Assembly, Reversed Polarity, With Fix-cap

Female




CE RoHS

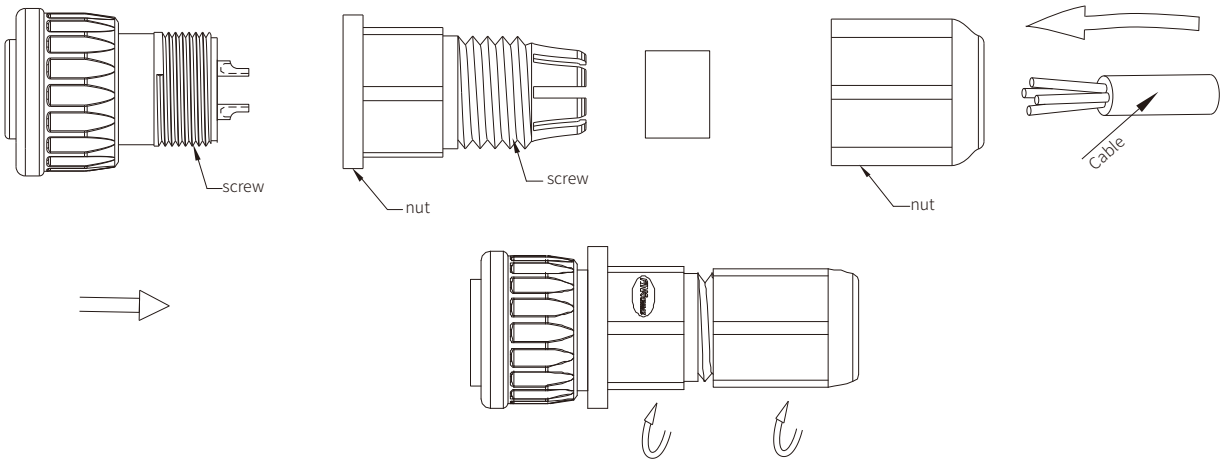
## Specifications

| Contacts | 4 | 6 |
|---|---|---|
| Pin layout(Female) | | |
| Ambient temperature | -25°C~+90°C | |
| Connector insert / body | PA+GF | |
| Connector contacts | Brass with gold plated | |
| Quick-lock Fix-cap | PA+GF | |
| Seal/O-ring | FKM | |
| Insulation resistance | ⩾100MΩ | |
| Contact resistance | ⩽5mΩ | |
| Shielding | Unavailable | |
| Suitable cable Dia | 3.0~6.0mm | |
| IP rating | IP65, IP67, IP68 in locked condition | |
| Mating endurance | >500 cycles | |
| Rated current | 4 A | |
| Rated voltage | 250V AC/ DC | 60V AC/DC |
| Wire gauge | 0.34 $mm^2$ (AWG 22) | |

## Part Number

| Pins | Female |
|---|---|
| 4 | MB12FARAFQ04ST |
| 6 | MB12FARAFQ06ST |

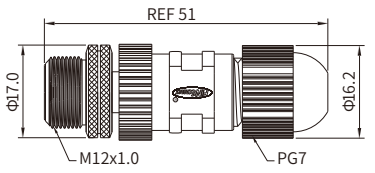
## Assembly Instruction



# M12 C-coding (Power)

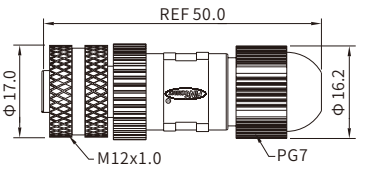
## M12 C-coding Straight Connector, Field Wirable Assembly, Solder

Male




CE RoHS IP65

Female




CE RoHS IP65

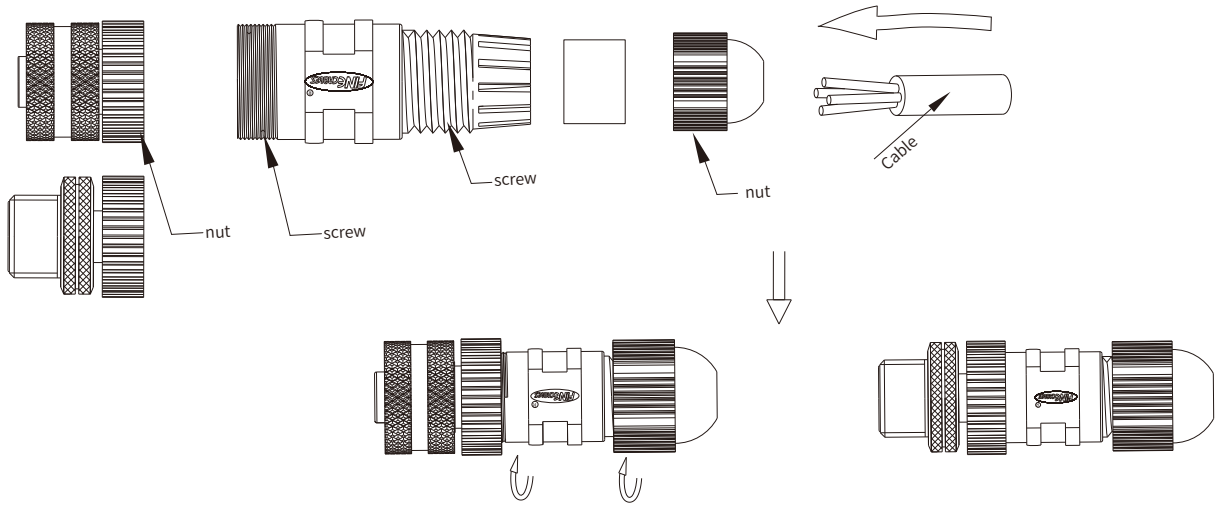
## Specifications

| Contacts | 3 (2+PE) | 4 (3+PE) | 5 (4+PE) | 6 (5+PE) |
|---|---|---|---|---|
| Pin layout(Male) | | | | |
| Pin layout(Female) | | | | |
| Standard | IEC 61076-2-101 | | | |
| Ambient temperature | -25°C~+90°C | | | |
| Connector insert | TPU | | | |
| Connector contacts | Brass with gold plated | | | |
| Connector body | PA | | | |
| Coupling nut/screw | Brass with nickel plated | | | |
| Seal/O-ring | FKM | | | |
| Insulation resistance | ⩾100MΩ | | | |
| Contact resistance | ⩽5mΩ | | | |
| Shielding | Unavailable | | | |
| Suitable cable Dia | 4~5.5mm | | | |
| IP rating | IP65 in locked condition | | | |
| Mating endurance | >500 cycles | | | |
| Rated current | 4 A | | 2 A | |
| Rated voltage | 250V AC/DC | | 60V AC/DC | 30V AC/DC |
| Wire gauge | 0.34mm² (AWG22) | | 0.25mm² (AWG24) | |

## Part Number

| Pins | Male | Female |
|---|---|---|
| 3 (2+PE) | MB12MACFF03ST | MB12FACFF03ST |
| 4 (3+PE) | MB12MACFF04ST | MB12FACFF04ST |
| 5 (4+PE) | MB12MACFF05ST | MB12FACFF05ST |
| 6 (5+PE) | MB12MACFF06ST | MB12FACFF06ST |

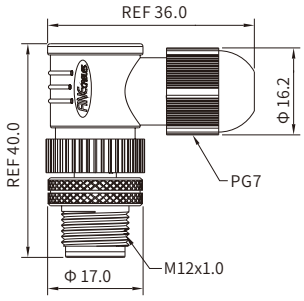
## Assembly Instruction



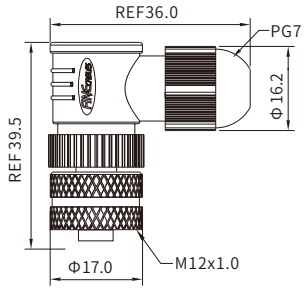
# M12 C-coding (Power)

## M12 C-coding Angled Connector, Field Wirable Assembly, Solder

Male




Female



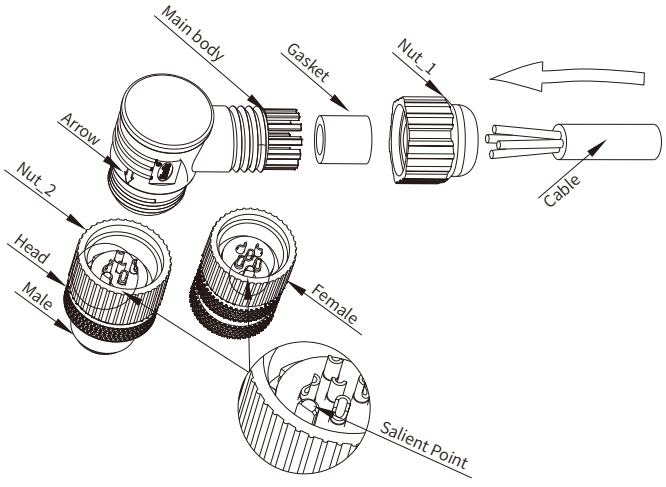

## Specifications

| Contacts | 3 (2+PE) | 4 (3+PE) | 5 (4+PE) | 6 (5+PE) |
|---|---|---|---|---|
| Pin layout(Male) | | | | |
| Pin layout(Female) | | | | |
| Standard | IEC 61076-2-101 | | | |
| Ambient temperature | -25°C~+90°C | | | |
| Connector insert | TPU | | | |
| Connector contacts | Brass with gold plated | | | |
| Connector body | PA+GF | | | |
| Coupling nut/screw | Brass with nickel plated | | | |
| Seal/O-ring | FKM | | | |
| Insulation resistance | ⩾100MΩ | | | |
| Contact resistance | ⩽5mΩ | | | |
| Shielding | Unavailable | | | |
| Suitable cable Dia | 4~5.5mm | | | |
| IP rating | IP67, IP68 in locked condition | | | |
| Mating endurance | >500 cycles | | | |
| Rated current | 4 A | | 2 A | |
| Rated voltage | 250V AC/DC | | 60V AC/DC | 30V AC/DC |
| Wire gauge | 0.34mm$^2$ (AWG22) | | 0.25mm$^2$ (AWG24) | |

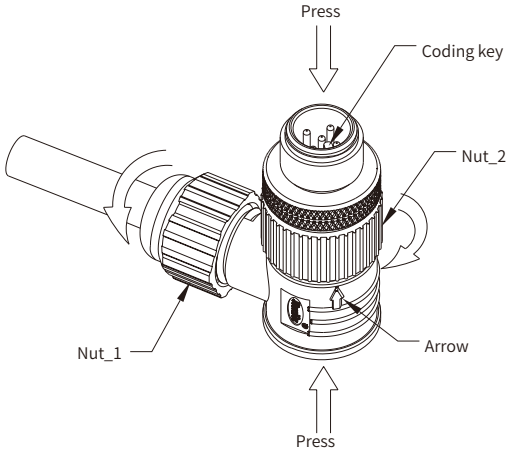
## Part Number

| Pins | Male | Female |
|---|---|---|
| 3 (2+PE) | MB12MACFF03RA | MB12FACFF03RA |
| 4 (3+PE) | MB12MACFF04RA | MB12FACFF04RA |
| 5 (4+PE) | MB12MACFF05RA | MB12FACFF05RA |
| 6 (5+PE) | MB12MACFF06RA | MB12FACFF06RA |

## Assembly Instruction




Picture 1



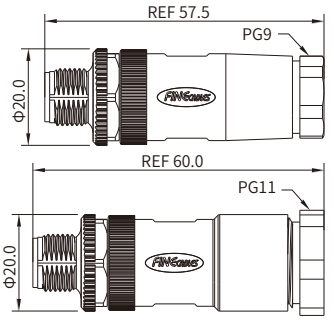

Picture 2

# M12 S-coding (Power AC)

## M12 S-coding Straight Connector, Field Wirable Assembly, Screw joint

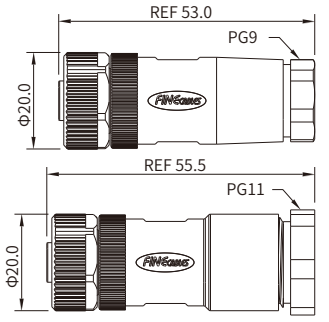
Male

CE RoHS




Female

CE RoHS




## Specifications

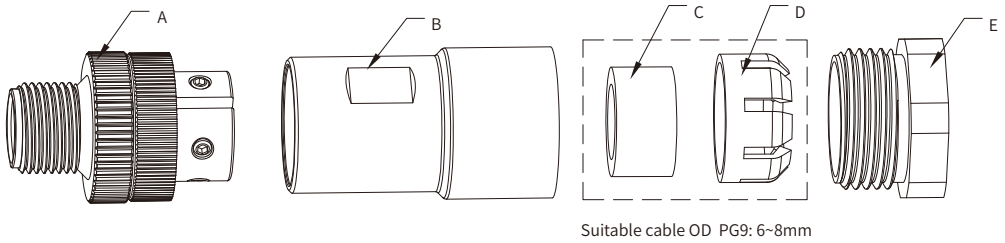
| Contacts | 3(2+PE) | 4(3+PE) |
|---|---|---|
| Pin layout(Male) | | |
| Pin layout(Female) | | |

| | |
|---|---|
| Standard | IEC 61076-2-111 |
| Ambient temperature | -25°C~+90°C |
| Connector insert | PA |
| Connector contacts | Brass with gold plated |
| Connector body | PA+GF |
| Coupling nut/screw | Zinc alloy with nickel plated |
| Seal/O-ring | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Shielding | Unavailable |
| Suitable cable Dia | PG9: 6~8mm / PG11: A: 8~10mm, B: 10~13mm |
| IP rating | IP67, IP68 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 12 A(40°C) |
| Rated voltage | 630V AC/DC |
| Wire gauge | 1.5mm$^2$ (AWG16) |

## Part Number

| Pins | Male | | Female | |
|---|---|---|---|---|
| | PG9 | PG11 | PG9 | PG11 |
| 2+PE | MB12MWSFHD03ST-3 | / | MB12FWSFHD03ST-3 | / |
| 3+PE | / | MB12MWSFHD04ST-7-A | / | MB12FWSFHD04ST-7-A |
| | / | MB12MWSFHD04ST-7-B | / | MB12FWSFHD04ST-7-B |

## Assembly Instruction



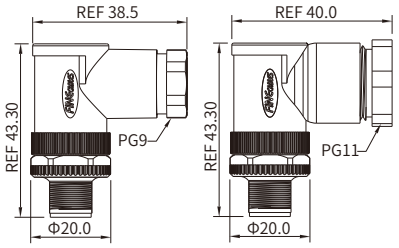

Suitable cable OD PG9: 6~8mm

Suitable cable OD PG11: A: 8~10mm B: 10~13mm

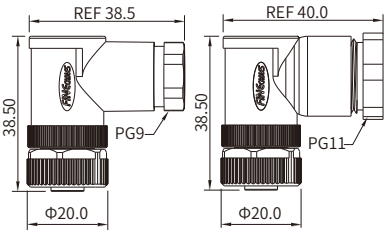
# M12 S-coding (Power AC)

## M12 S-coding Angled Connector, Field Wirable Assembly, Screw joint

Male




Female




## Specifications

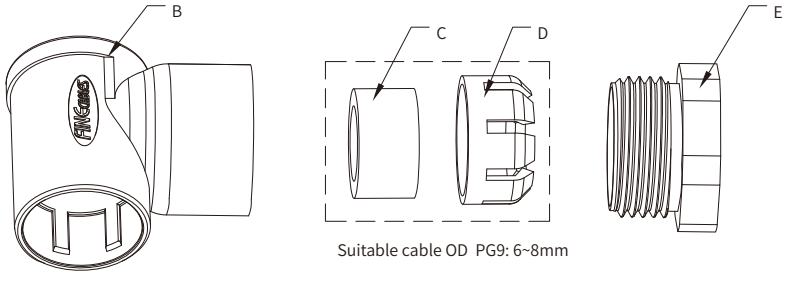
| Contacts | 3(2+PE) | 4(3+PE) |
|---|---|---|
| Pin layout(Male) | | |
| Pin layout(Female) | | |

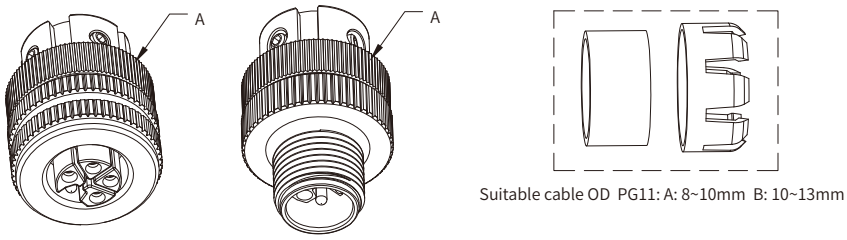
| | |
|---|---|
| Standard | IEC 61076-2-111 |
| Ambient temperature | -25°C~+90°C |
| Connector insert | PA |
| Connector contacts | Brass with gold plated |
| Connector body | PA+GF |
| Coupling nut/screw | Zinc alloy with nickel plated |
| Seal/O-ring | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Shielding | Unavailable |
| Suitable cable Dia | PG9: 6~8mm / PG11: A: 8~10mm,B: 10~13mm |
| IP rating | IP67, IP68 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 12 A(40°C) |
| Rated voltage | 630V AC/DC |
| Wire gauge | 1.5mm$^2$(AWG16) |

## Part Number

| Pins | Male | | Female | |
|---|---|---|---|---|
| | PG9 | PG11 | PG9 | PG11 |
| 2+PE | MB12MWSFHD03RA-3 | / | MB12FWSFHD03RA-3 | / |
| 3+PE | / | MB12MWSFHD04RA-7-A | / | MB12FWSFHD04RA-7-A |
| | / | MB12MWSFHD04RA-7-B | / | MB12FWSFHD04RA-7-B |

## Assembly Instruction

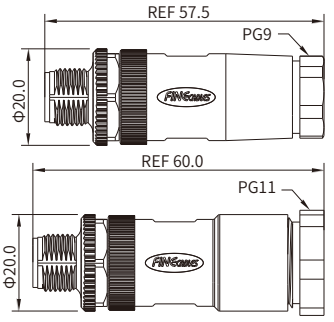


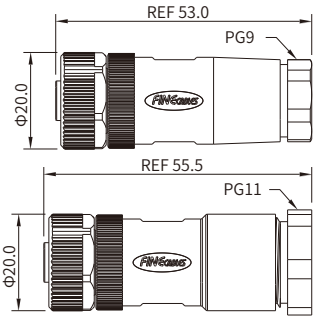
# M12 T-coding (Power DC)

## M12 T-coding Straight Connector, Field Wirable Assembly, Screw joint

Male




Female




## Specifications

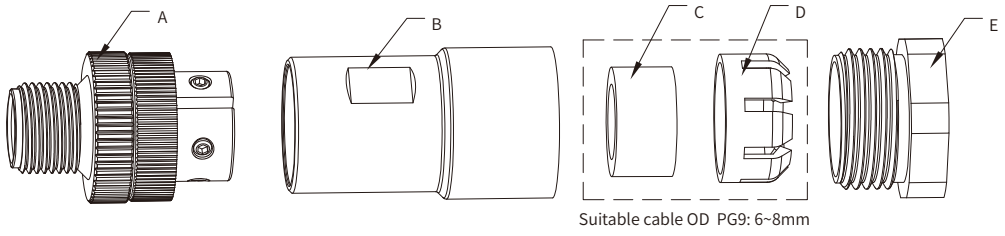
| Contacts | 2 | 3 | 4 |
|---|---|---|---|
| Pin layout(Male) | | | |
| Pin layout(Female) | | | |

| | |
|---|---|
| Standard | IEC 61076-2-111 |
| Ambient temperature | -25°C~+90°C |
| Connector insert | PA |
| Connector contacts | Brass with gold plated |
| Connector body | PA+GF |
| Coupling nut/screw | Zinc alloy with nickel plated |
| Seal/O-ring | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Shielding | Unavailable |
| Suitable cable Dia | PG9: 6~8mm / PG11: A: 8~10mm,B: 10~13mm |
| IP rating | IP67, IP68 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 12 A(40°C) |
| Rated voltage | 63V AC/DC |
| Wire gauge | 1.5mm$^2$ (AWG16) |

## Part Number

| Pins | Male | | Female | |
|---|---|---|---|---|
| | PG9 | PG11 | PG9 | PG11 |
| 2 | MB12MWTFHD02ST-3 | / | MB12FWTFHD02ST-3 | / |
| 3 | MB12MWTFHD03ST-3 | / | MB12FWTFHD03ST-3 | / |
| 4 | / | MB12MWTFHD04ST-7-A | / | MB12FWTFHD04ST-7-A |
| | / | MB12MWTFHD04ST-7-B | / | MB12FWTFHD04ST-7-B |

## Assembly Instruction



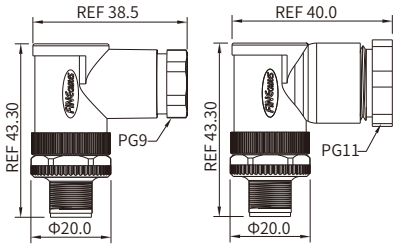

Suitable cable OD PG9: 6~8mm

Suitable cable OD PG11: A: 8~10mm B: 10~13mm

# M12 T-coding (Power DC)

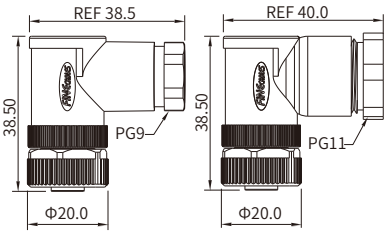
## M12 T-coding Angled Connector, Field Wirable Assembly, Screw joint

Male




CE RoHS IP68

Female




CE RoHS IP68

## Specifications

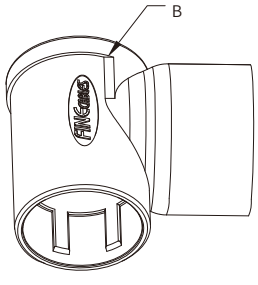
| Contacts | 2 | 3 | 4 |
|---|---|---|---|
| Pin layout(Male) | | | |
| Pin layout(Female) | | | |

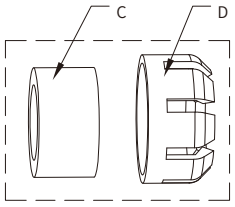
| | |
|---|---|
| Standard | IEC 61076-2-111 |
| Ambient temperature | -25°C~+90°C |
| Connector insert | PA |
| Connector contacts | Brass with gold plated |
| Connector body | PA+GF |
| Coupling nut/screw | Zinc alloy with nickel plated |
| Seal/O-ring | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Shielding | Unavailable |
| Suitable cable Dia | PG9: 6~8mm / PG11: A: 8~10mm, B: 10~13mm |
| IP rating | IP67, IP68 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 12 A(40°C) |
| Rated voltage | 63V AC/DC |
| Wire gauge | 1.5mm$^2$ (AWG16) |

## Part Number

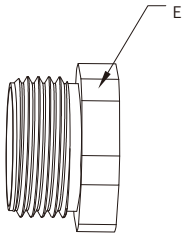
| Pins | Male | | Female | |
|---|---|---|---|---|
| | PG9 | PG11 | PG9 | PG11 |
| 2 | MB12MWTFHD02RA-3 | / | MB12FWTFHD02RA-3 | / |
| 3 | MB12MWTFHD03RA-3 | / | MB12FWTFHD03RA-3 | / |
| 4 | / | MB12MWTFHD04RA-7-A | MB12FWTFHD04RA-3 | MB12FWTFHD04RA-7-A |
| | / | MB12MWTFHD04RA-7-B | / | MB12FWTFHD04RA-7-B |

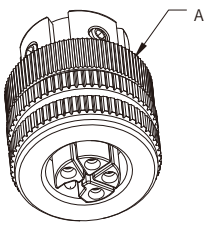
## Assembly Instruction

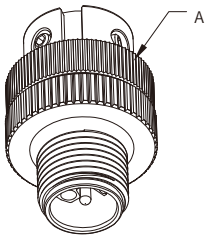


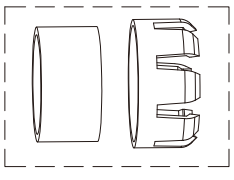




Suitable cable OD PG9: 6~8mm



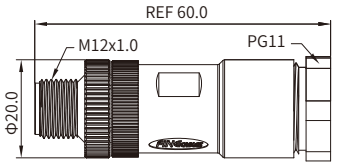



Suitable cable OD PG11: A: 8~10mm B: 10~13mm

# M12 K-coding (Power AC)

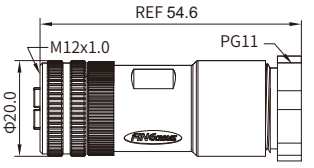
## M12 K-coding Straight Connector, Field Wirable Assembly, Screw joint

Male




CE RoHS IP68

Female




CE RoHS IP68

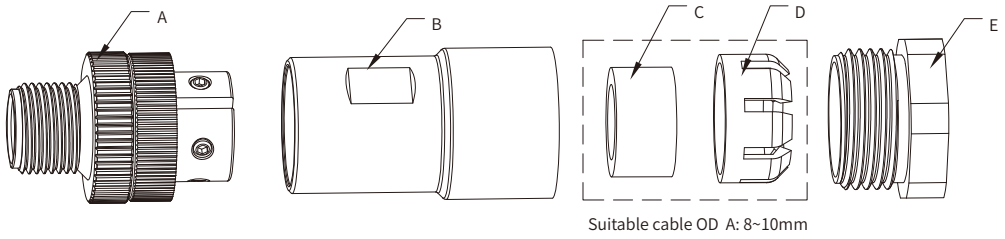
## Specifications

| Contacts | 5(4+PE) |
|---|---|
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-111 |
| Ambient temperature | -25°C~+90°C |
| Connector insert | PA |
| Connector contacts | Brass with gold plated |
| Connector nut*/screw | Brass with nickel plated |
| Connector body | PA+GF |
| Seal / O-ring | FKM |
| Insulation resistance | ⩾ 100 MΩ |
| Contact resistance | ⩽ 5 mΩ |
| Shielding | Unavailable |
| Suitable cable Dia | A: 8~10mm, B: 10~13mm |
| IP rating | IP67 In locked condition |
| Rated current | 12A |
| Rated voltage | 630V AC/DC |
| Wire gauge | 1.93mm²(AWG14) |

## Part Number

| Pins | Male | Female |
|---|---|---|
| 4+PE | MB12MWKFF05ST-7-A | MB12FWKFF05ST-7-A |
| | MB12MWKFF05ST-7-B | MB12FWKFF05ST-7-B |

## Assembly Instruction



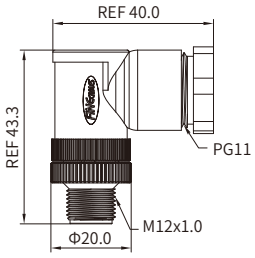

Suitable cable OD A: 8~10mm

Suitable cable OD B: 10~13mm

# M12 K-coding (Power AC)

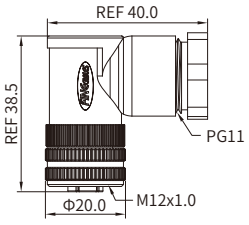
## M12 K-coding Angled Connector, Field Wirable Assembly, Screw joint

Male




CE RoHS IP68

Female




CE RoHS IP68

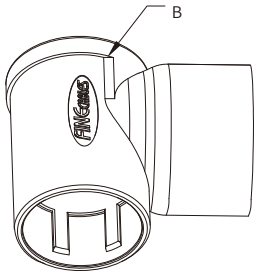
## Specifications

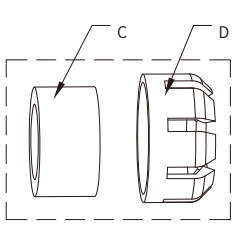
| Contacts | 5(4+PE) |
|---|---|
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-111 |
| Ambient temperature | -25°C~+90°C |
| Connector insert | PA |
| Connector contacts | Brass with gold plated |
| Connector nut*/screw | Brass with nickel plated |
| Connector body | PA+GF |
| Seal / O-ring | FKM |
| Insulation resistance | ⩾ 100 MΩ |
| Contact resistance | ⩽ 5 mΩ |
| Shielding | Unavailable |
| Suitable cable Dia | A: 8~10mm, B: 10~13mm |
| IP rating | IP67 In locked condition |
| Rated current | 12A |
| Rated voltage | 630V AC/DC |
| Wire gauge | 1.93mm² (AWG14) |

## Part Number

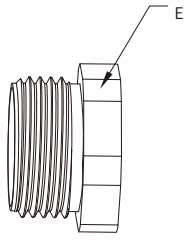
| Pins | Male | Female |
|---|---|---|
| 4+PE | MB12MWKFF05RA-7-A | MB12FWKFF05RA-7-A |
| | MB12MWKFF05RA-7-B | MB12FWKFF05RA-7-B |

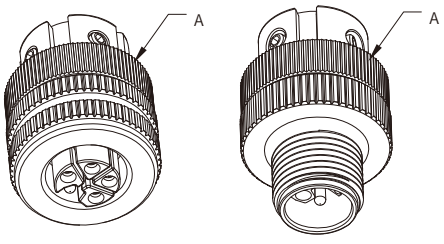
## Assembly Instruction

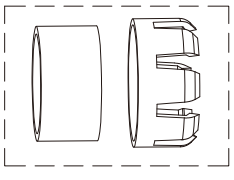



Suitable cable OD A: 8~10mm



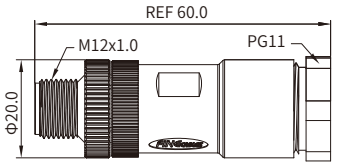



Suitable cable OD B: 10~13mm

# M12 L-coding (Power AC)

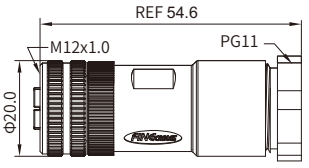
## M12 L-coding Straight Connector, Field Wirable Assembly, Screw joint

Male




CE RoHS

Female




CE RoHS

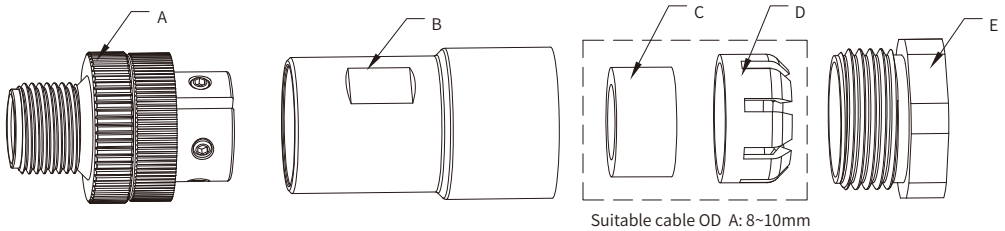
## Specifications

| Contacts | 5(4+PE) |
|---|---|
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-111 |
| Ambient temperature | -25°C~+90°C |
| Connector insert | PA |
| Connector contacts | Brass with gold plated |
| Connector nut*/screw | Brass with nickel plated |
| Connector body | PA+GF |
| Seal / O-ring | FKM |
| Insulation resistance | ⩾ 100 MΩ |
| Contact resistance | ⩽ 5 mΩ |
| Shielding | Unavailable |
| Suitable cable Dia | A: 8~10mm, B: 10~13mm |
| IP rating | IP67 In locked condition |
| Rated current | 16A |
| Rated voltage | 63V AC/DC |
| Wire gauge | 1.93mm²(AWG14) |

## Part Number

| Pins | Male | Female |
|---|---|---|
| 4+PE | MB12MWLFF05ST-7-A | MB12FWLFF05ST-7-A |
| | MB12MWLFF05ST-7-B | MB12FWLFF05ST-7-B |

## Assembly Instruction



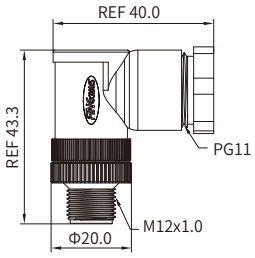

Suitable cable OD A: 8~10mm

Suitable cable OD B: 10~13mm

# M12 L-coding (Power AC)

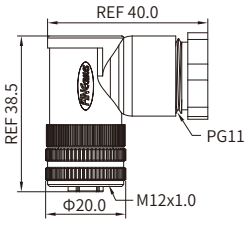
## M12 L-coding Angled Connector, Field Wirable Assembly, Screw joint

Male




CE RoHS IP68

Female




CE RoHS IP68

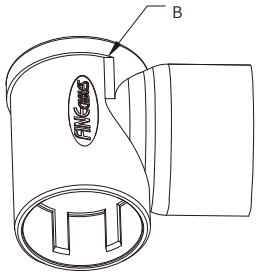
## Specifications

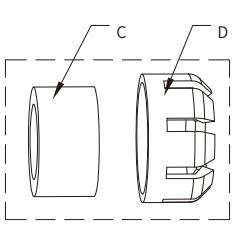
| Contacts | 5(4+PE) |
|---|---|
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-111 |
| Ambient temperature | -25°C~+90°C |
| Connector insert | PA |
| Connector contacts | Brass with gold plated |
| Connector nut*/screw | Brass with nickel plated |
| Connector body | PA+GF |
| Seal / O-ring | FKM |
| Insulation resistance | ⩾ 100 MΩ |
| Contact resistance | ⩽ 5 mΩ |
| Shielding | Unavailable |
| Suitable cable Dia | A: 8~10mm, B: 10~13mm |
| IP rating | IP67 In locked condition |
| Rated current | 16A |
| Rated voltage | 63V AC/DC |
| Wire gauge | 1.93mm$^2$(AWG14) |

## Part Number

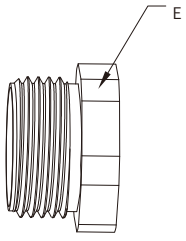
| Pins | Male | Female |
|---|---|---|
| 4+PE | MB12MWLFF05RA-7-A | MB12FWLFF05RA-7-A |
| | MB12MWLFF05RA-7-B | MB12FWLFF05RA-7-B |

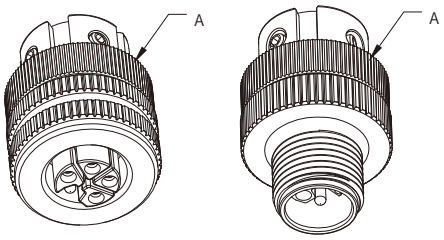
## Assembly Instruction

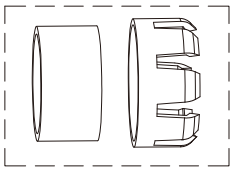



Suitable cable OD A: 8~10mm



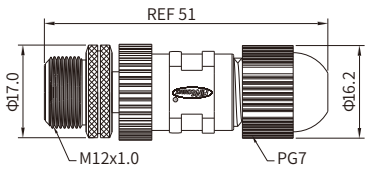



Suitable cable OD B: 10~13mm

# M12 D-coding (Ethernet)

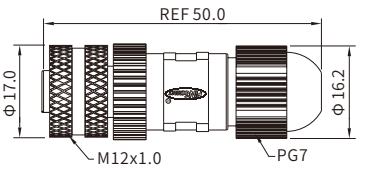
## M12 D-coding Straight Connector, Field Wirable Assembly, Solder

Male




CE RoHS

Female




CE RoHS

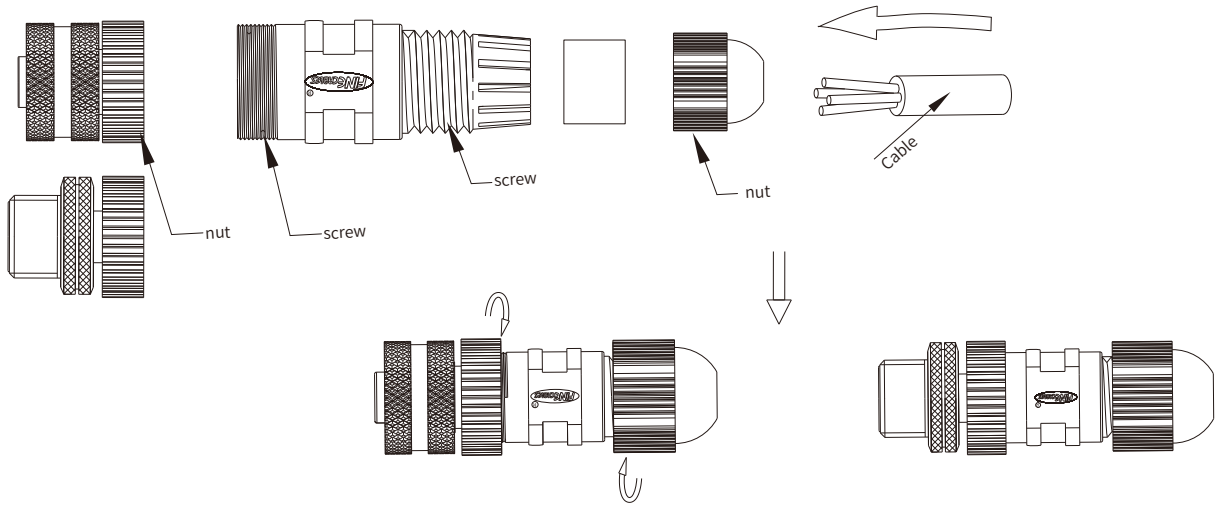
## Specifications

| Contacts | 4 |
|---|---|
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-101 |
| Ambient temperature | -25°C~+90°C |
| Connector insert | TPU |
| Connector contacts | Brass with gold plated |
| Connector body | PA |
| Coupling nut/screw | Brass with nickel plated |
| Seal/O-ring | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Shielding | Unavailable |
| Suitable cable Dia | 4~5.5mm |
| IP rating | IP65 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 4 A |
| Rated voltage | 250V AC/DC |
| Wire gauge | 0.34mm$^2$(AWG22) |

## Part Number

| Pins | Male | Female |
|---|---|---|
| 4 | MB12MADFF04ST | MB12FADFF04ST |

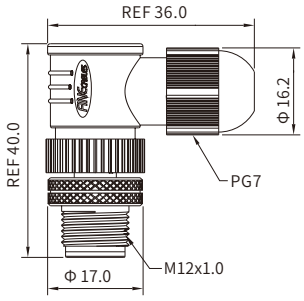
## Assembly Instruction



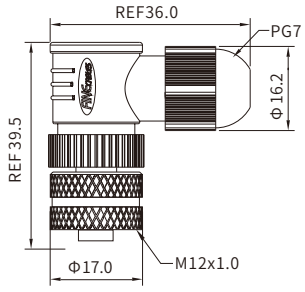
# M12 D-coding (Ethernet)

## M12 D-coding Angled Connector, Field Wirable Assembly, Solder

Male




Female



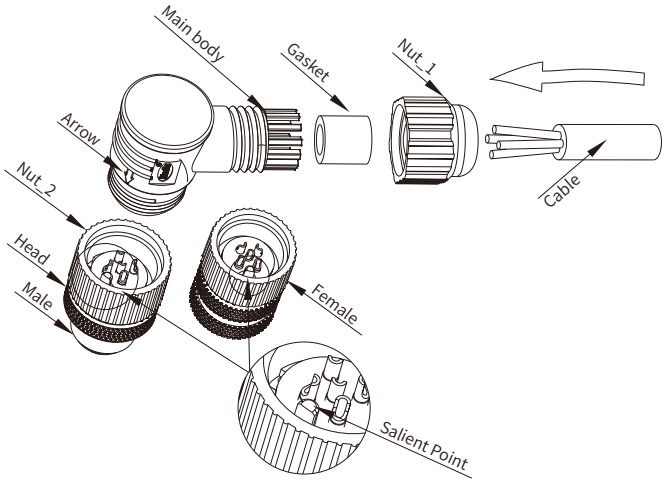

## Specifications

| Contacts | 4 |
|---|---|
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-101 |
| Ambient temperature | -25°C~+90°C |
| Connector insert | TPU |
| Connector contacts | Brass with gold plated |
| Connector body | PA |
| Coupling nut/screw | Brass with nickel plated |
| Seal/O-ring | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Shielding | Unavailable |
| Suitable cable Dia | 4~5.5mm |
| IP rating | IP67, IP68 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 4 A |
| Rated voltage | 250V AC/DC |
| Wire gauge | 0.34mm$^2$ (AWG22) |

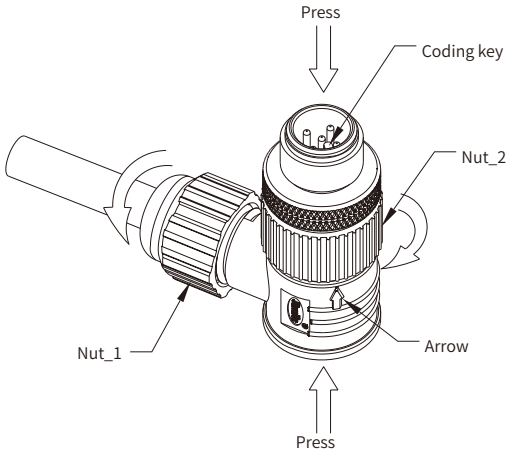
## Part Number

| Pins | Male | Female |
|---|---|---|
| 4 | MB12MADFF04RA | MB12FADFF04RA |

## Assembly Instruction




Picture 1

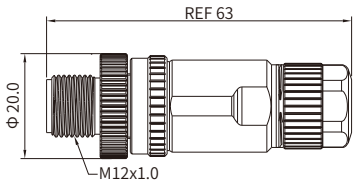



Picture 2

# M12 D-coding (Ethernet)

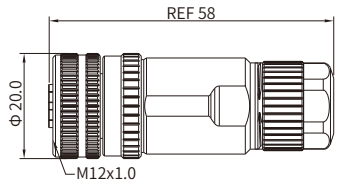
## M12 D-coding Straight Connector, Field Wirable Assembly, Screw joint, Shielded

Male




CE RoHS IP68

Female




CE RoHS IP68

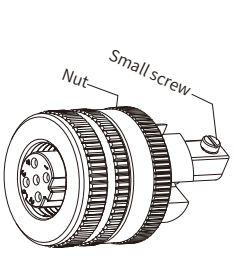
## Specifications

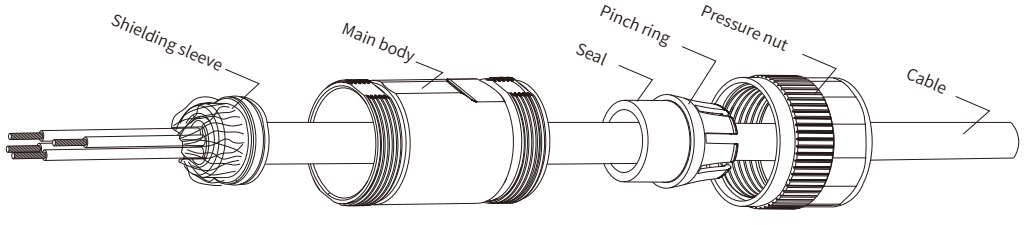
| Contacts | 4 |
|---|---|
| Certification | cULus LISTED CYJV(CYJV7).E321413 |
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-101 |
| Ambient temperature | -25°C~+90°C |
| Connector insert | TPU |
| Connector contacts | Brass with gold plated |
| Connector body | Zinc alloy with nickel plated |
| Coupling nut/screw | Brass with nickel plated |
| Seal/O-ring | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Shielding | Available |
| Suitable cable Dia | A: 4~6mm; B: 6~8mm |
| IP rating | IP67, IP68 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 4 A |
| Rated voltage | 250V AC/DC |
| Wire gauge | 0.34mm²(AWG22) |

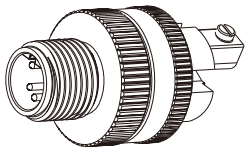
## Part Number

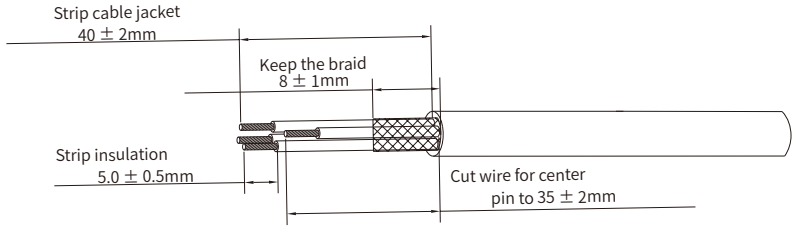
| Pins | Male | | Female | |
|---|---|---|---|---|
| | A | B | A | B |
| 4 | MB12MWSDFF04ST-A | MB12MWSDFF04ST-B | MB12FWSDFF04ST-A | MB12FWSDFF04ST-B |

## Assembly Instruction



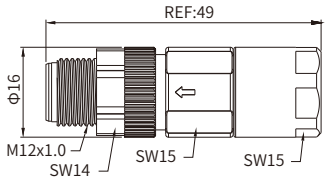





# M12 D-coding (Ethernet)

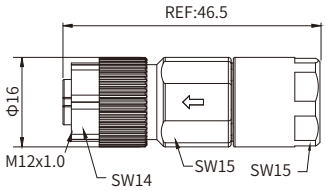
## M12 D-coding Straight Connector, Field Assembly, Crimp Type, Shielded

Male




CE RoHS

Female




CE RoHS

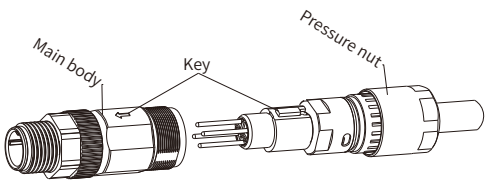
## Specifications

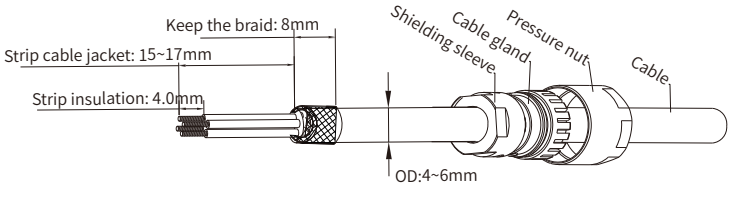
| Contacts | 4 |
|---|---|
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-101 |
| Ambient temperature | -25°C~+90°C |
| Connector insert | PA |
| Connector contacts | Brass with gold plated |
| Connector body | Zinc alloy with nickel plated |
| Coupling nut/screw | Brass with nickel plated |
| Seal/O-ring | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Shielding | Available |
| Suitable cable Dia | A: 4~6mm; B: 6~8mm |
| IP rating | IP67, IP68 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 4 A |
| Rated voltage | 250V AC/DC |
| Wire gauge | 0.25~0.5mm$^2$ (AWG24~20) |

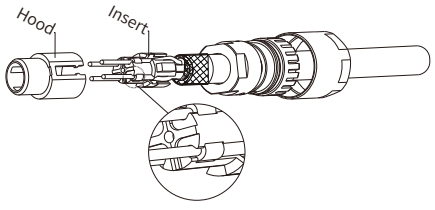
## Part Number

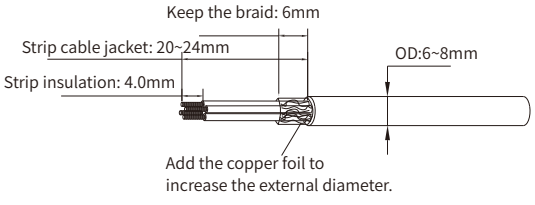
| Pins | Male | | Female | |
|---|---|---|---|---|
| | A | B | A | B |
| 4 | MB12MCSDFF04ST-A | MB12MCSDFF04ST-B | MB12FCSDFF04ST-A | MB12FCSDFF04ST-B |

## Assembly Instruction



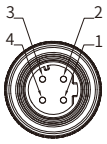



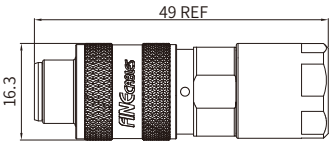



# M12 D-coding (Ethernet)

## M12 D-coding Straight Connector, Field Wirable Assembly, Outer Push-Pull Thin Type, Shielded, Steel Ball Application

Male




CE RoHS

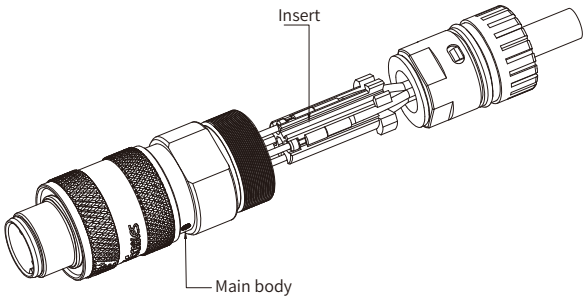
## Specifications

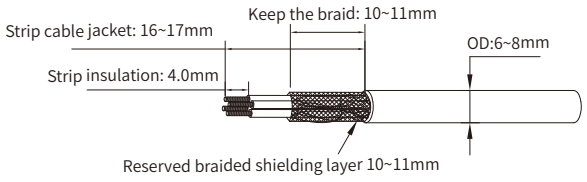
| Contacts | 4 |
|---|---|
| Pin layout(Male) | |
| Standard | T/CECA 30 |
| Ambient temperature | -25 °C ~ + 90 °C |
| Connector insert | PA+GF |
| Connector contacts | Brass with gold plated |
| Connector shell | Brass with nickel plated |
| Seal / O-ring | Epoxy resin/FKM |
| Insulation resistance | ⩾ 100 MΩ |
| Contact resistance | ⩽ 5 mΩ |
| Shielding | Available |
| IP rating | IP67 In locked condition |
| Mating endurance | >500 cycles |
| Rated current | 4A |
| Voltage | 250V AC/DC |
| Wire gauge / size | 0.25~0.5mm² (AWG24~20) |

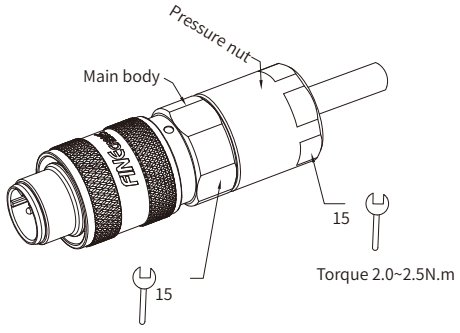
## Part Number

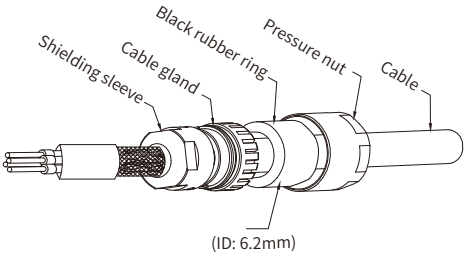
| Pins | Male |
|---|---|
| 4 | MB12MCPSBDFPP04ST-2 |

## Assembly Instruction



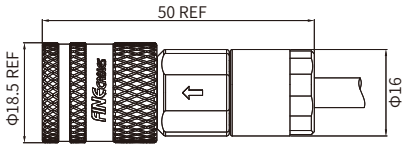



# M12 D-coding (Ethernet)

## M12 D-coding Straight Connector, Field Wirable Assembly, Outer Push-Pull Type, Shielded

Male




CE RoHS IP68

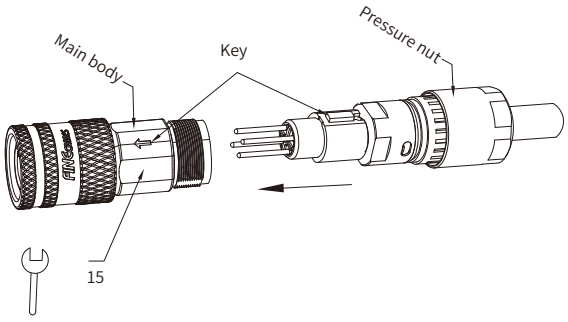
## Specifications

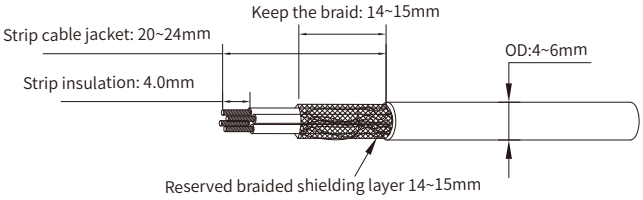
| Contacts | 4 |
|---|---|
| Pin layout(Male) | |
| Standard | IEC 61076-2-010 |
| Ambient temperature | -25 °C ~ + 90 °C |
| Connector insert | PA+GF |
| Connector contacts | Brass with gold plated |
| Connector shell | Brass with nickel plated |
| Seal / O-ring | Epoxy resin/FKM |
| Insulation resistance | ⩾ 100 MΩ |
| Contact resistance | ⩽ 5 mΩ |
| Shielding | Available |
| IP rating | IP67 In locked condition |
| Mating endurance | >500 cycles |
| Rated current | 4A |
| Voltage | 250V AC/DC |
| Wire gauge / size | 0.25~0.5mm² (AWG24~20) |

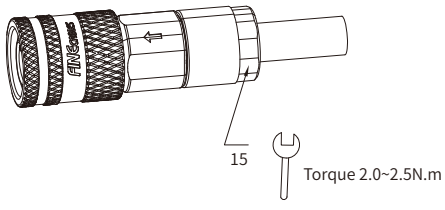
## Part Number

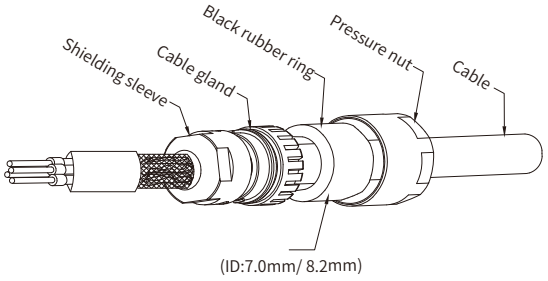
| Pins | Male |
|---|---|
| 4 | MB12MCOPDPP04ST-3 |

## Assembly Instruction



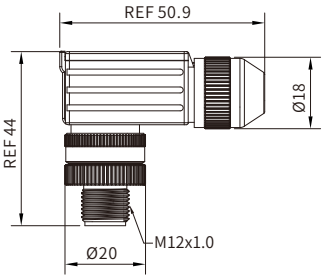



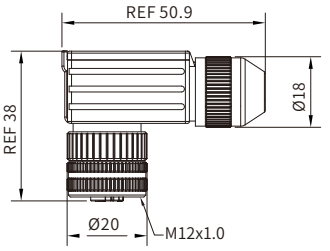
# M12 D-coding (Ethernet)

## M12 D-coding Angled Connector, Field Wirable Assembly, Screw joint, Shielded with Die-cast body

Male




Female



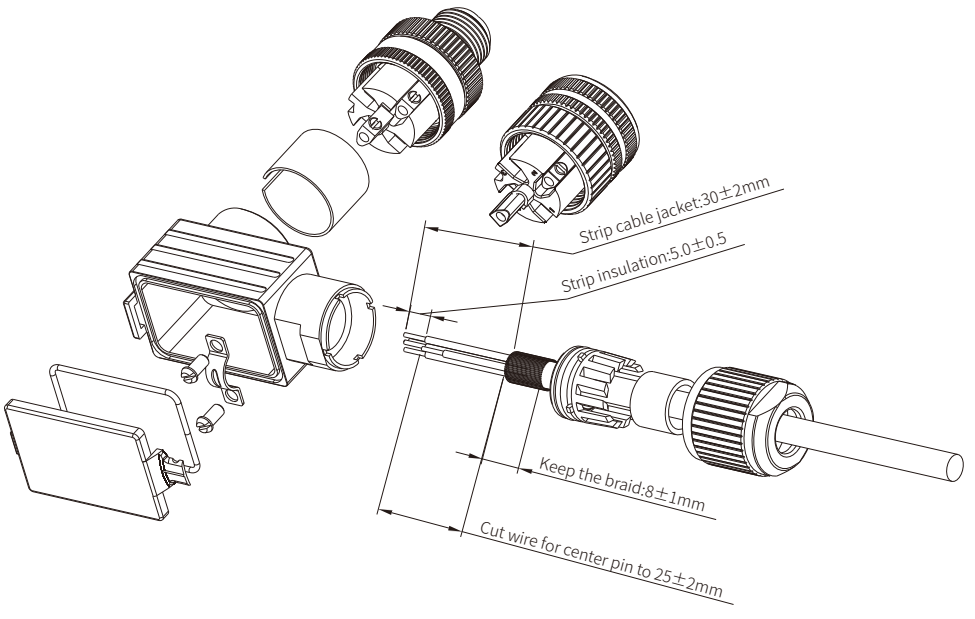

## Specifications

| Contacts | 4 |
|---|---|
| Certification | CYJV(CYJV7).E321413 |
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-101 |
| Ambient temperature | -25°C~+90°C |
| Connector insert | TPU |
| Connector contacts | Brass with gold plated |
| Connector body | Zinc alloy with nickel plated |
| Coupling nut/screw | Brass with nickel plated |
| Seal/O-ring | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Shielding | Available |
| Suitable cable Dia | A: 4~6mm; B: 6~8mm |
| IP rating | IP67, IP68 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 4 A |
| Rated voltage | 250V AC/DC |
| Wire gauge | 0.34mm$^2$(AWG22) |

## Part Number

| Pins | Male | | Female | |
|---|---|---|---|---|
| | A | B | A | B |
| 4 | MB12MWSDFF04RA-A | MB12MWSDFF04RA-B | MB12FWSDFF04RA-A | MB12FWSDFF04RA-B |

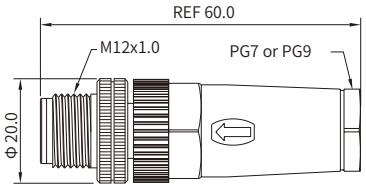
## Assembly Instruction



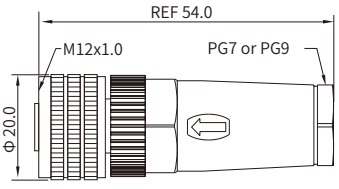
# M12 D-coding (Ethernet)

## M12 D-coding Straight Connector, Field Wirable Assembly, Screw joint, Al-alloy Screw/Nut

Male




Female




CE RoHS IP68

CE RoHS IP68

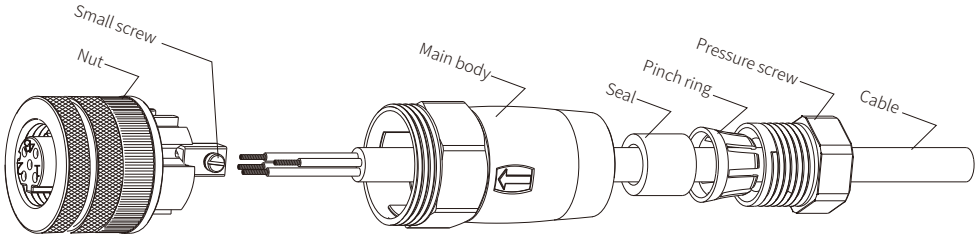
## Specifications

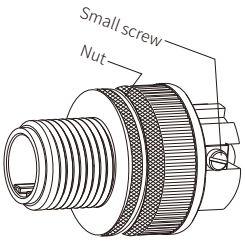
| Contacts | 4 |
|---|---|
| Certification | cULus LISTED CYJV(CYJV7).E321413 |
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-101 |
| Ambient temperature | -25°C~+90°C |
| Connector insert | TPU |
| Connector contacts | Brass with gold plated |
| Connector body | PA+GF |
| Coupling nut/screw | Aluminum Alloy anodized |
| Seal/O-ring | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Shielding | Unavailable |
| Suitable cable Dia | PG7: 4~6mm / PG9: 6~8mm |
| IP rating | IP67, IP68 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 4 A |
| Rated voltage | 250V AC/DC |
| Wire gauge | 0.34mm² (AWG22) |

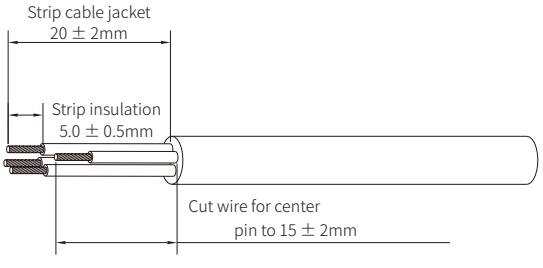
## Part Number

| Pins | Male | | Female | |
|---|---|---|---|---|
| | PG9 | PG7 | PG9 | PG7 |
| 4 | MB12MWDFF04ST-3 | MB12MWDFF04ST-4 | MB12FWDFF04ST-3 | MB12FWDFF04ST-4 |

## Assembly Instruction



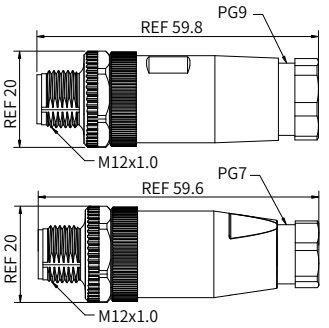



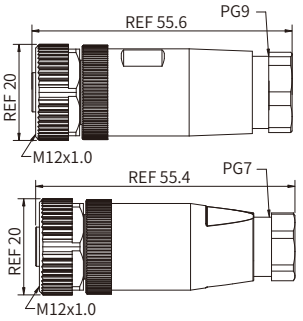
# M12 D-coding (Ethernet)

## M12 D-coding Straight Connector, Field Wirable Assembly, Screw joint, Die-cast Screw/Nut

Male




Female



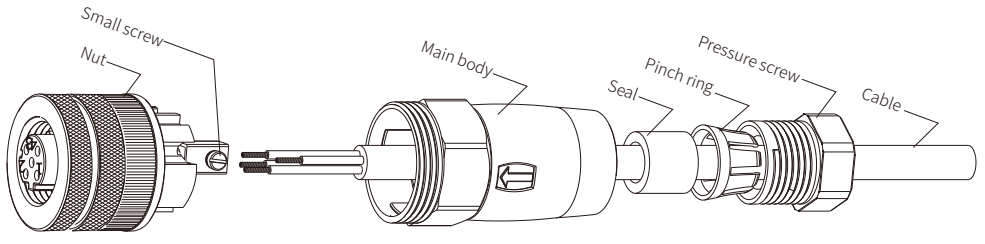

## Specifications

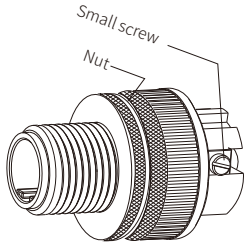
| Contacts | 4 |
|---|---|
| Certification | CYJV(CYJV7).E321413 |
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-101 |
| Ambient temperature | -25°C~+90°C |
| Connector insert | PA |
| Connector contacts | Brass with gold plated |
| Connector body | PA+GF |
| Coupling nut/screw | Zinc alloy with nickel plated |
| Seal/O-ring | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Shielding | Unavailable |
| Suitable cable Dia | PG7: 4~6mm / PG9: 6~8mm |
| IP rating | IP67, IP68 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 4 A |
| Rated voltage | 250V AC/DC |
| Wire gauge | 0.34mm²(AWG22) |

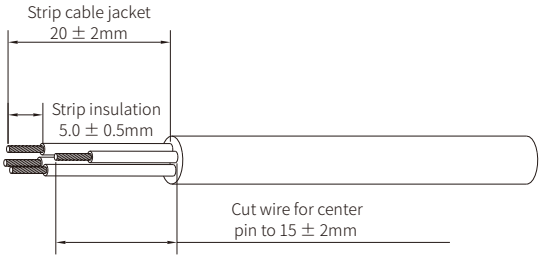
## Part Number

| Pins | Male | | Female | |
|---|---|---|---|---|
| | PG9 | PG7 | PG9 | PG7 |
| 4 | MB12MWDFHD04ST-3 | MB12MWDFHD04ST-4 | MB12FWDFHD04ST-3 | MB12FWDFHD04ST-4 |

## Assembly Instruction



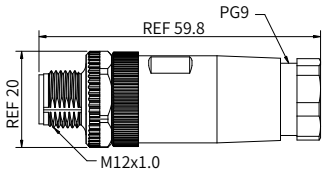



# M12 D-coding (Ethernet)

## M12 D-coding Straight Connector Field Wirable Assembly, Spring clamp terminals

Male

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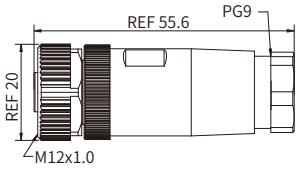
Female




CE RoHS

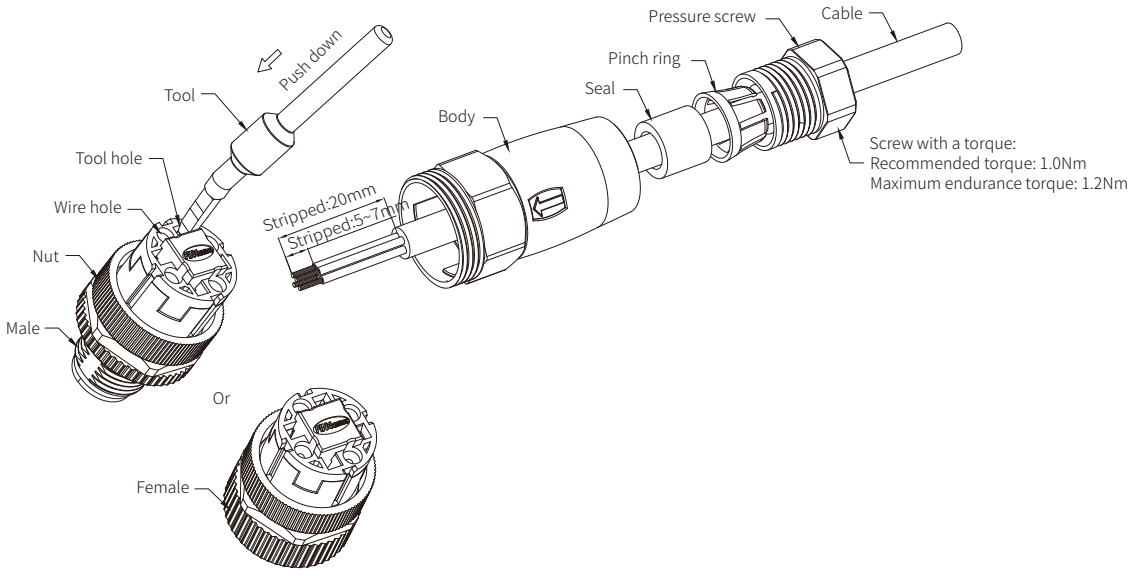
## Specifications

| Contacts | 4 |
|---|---|
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-101 |
| Ambient temperature | -25°C~+90°C |
| Connector insert | PBT+GF |
| Connector contacts | Brass with gold plated |
| Connector body | PA+GF |
| Coupling nut/screw | Zinc alloy |
| Seal/O-ring | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Shielding | Unavailable |
| Suitable cable Dia | PG7: 4~6mm / PG9: 6~8mm |
| IP rating | IP67 In locked condition |
| Mating endurance | >500 cycles |
| Rated current | 4 A |
| Rated voltage | 250V AC/DC |
| Wire gauge | 0.34mm$^2$ (AWG22) |

## Part Number

| Pins | Male | Female |
|---|---|---|
| 4 | MB12MSCDFHD04ST-3 | MB12FSCDFHD04ST-3 |

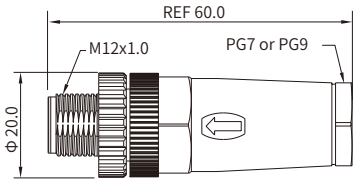
## Assembly Instruction



# M12 D-coding (Ethernet)

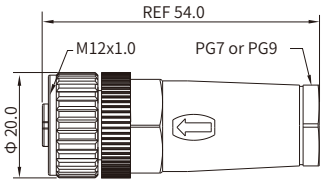
## M12 D-coding Straight Connector, Field Wirable Assembly, Screw joint, Plastic

Male




CE RoHS IP68

Female




CE RoHS IP68

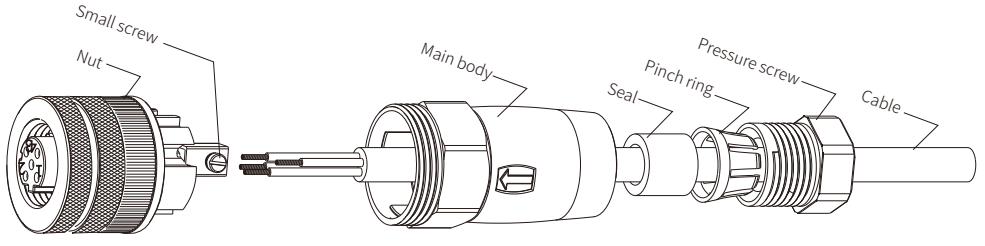
## Specifications

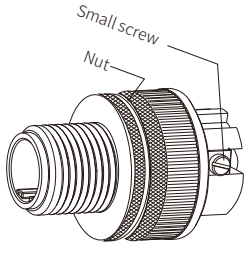
| | |
|---|---|
| Contacts | 4 |
| Certification | cULus LISTED CYJV(CYJV7).E321413 |
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-101 |
| Ambient temperature | -25°C~+90°C |
| Connector insert | TPU |
| Connector contacts | Brass with gold plated |
| Connector body | PA+GF |
| Coupling nut/screw | PA+GF |
| Seal/O-ring | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Shielding | Unavailable |
| Suitable cable Dia | PG7: 4~6mm / PG9: 6~8mm |
| IP rating | IP67, IP68 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 4 A |
| Rated voltage | 250V AC/DC |
| Wire gauge | 0.34mm²(AWG22) |

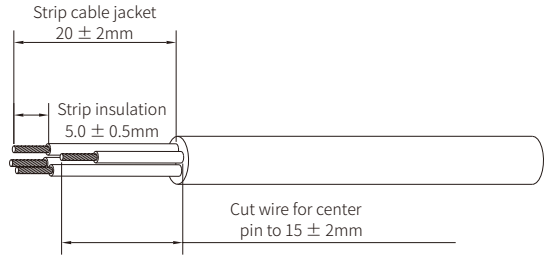
## Part Number

| Pins | Male | | Female | |
|---|---|---|---|---|
| | PG9 | PG7 | PG9 | PG7 |
| 4 | MB12MWDFP04ST-3 | MB12MWDFP04ST-4 | MB12FWDFP04ST-3 | MB12FWDFP04ST-4 |

## Assembly Instruction



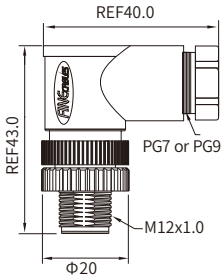



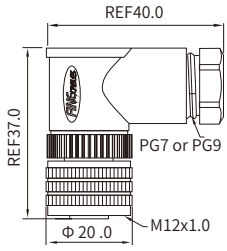
# M12 D-coding (Ethernet)

## M12 D-coding Angled Connector, Field Wirable Assembly, Screw joint, Al-alloy Screw/Nut

Male




Female



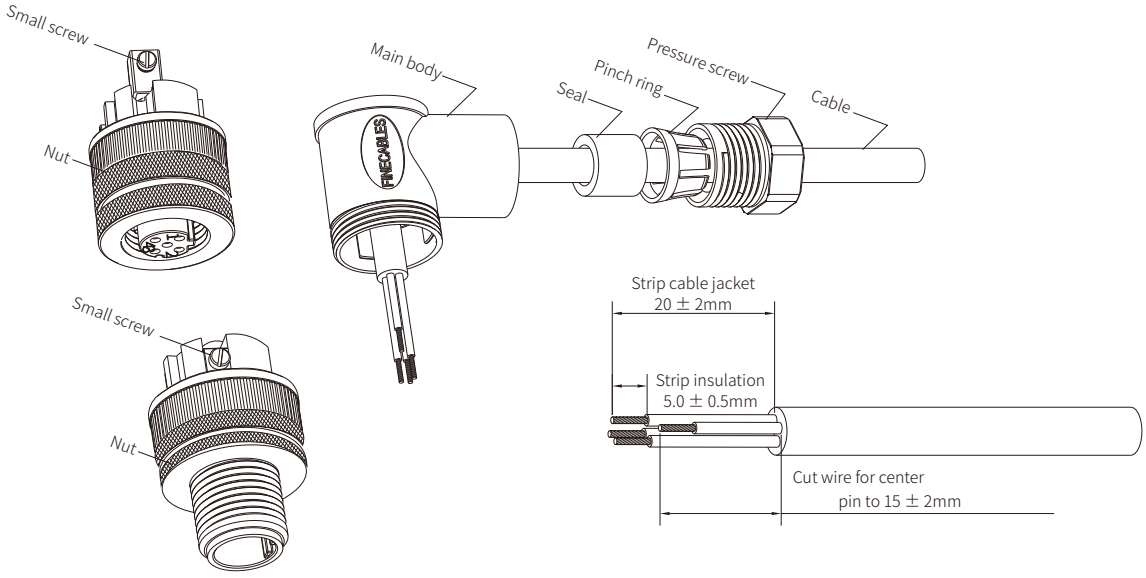

## Specifications

| Contacts | 4 |
|---|---|
| Certification | CYJV(CYJV7).E321413 |
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-101 |
| Ambient temperature | -25°C~+90°C |
| Connector insert | TPU |
| Connector contacts | Brass with gold plated |
| Connector body | PA+GF |
| Coupling nut/screw | Aluminum Alloy anodized |
| Seal/O-ring | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Shielding | Unavailable |
| Suitable cable Dia | PG7: 4~6mm / PG9: 6~8mm |
| IP rating | IP67, IP68 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 4 A |
| Rated voltage | 250V AC/DC |
| Wire gauge | 0.34mm$^2$ (AWG22) |

## Part Number

| Pins | Male | | Female | |
|---|---|---|---|---|
| | PG9 | PG7 | PG9 | PG7 |
| 4 | MB12MWDFF04RA-3 | MB12MWDFF04RA-4 | MB12FWDFF04RA-3 | MB12FWDFF04RA-4 |

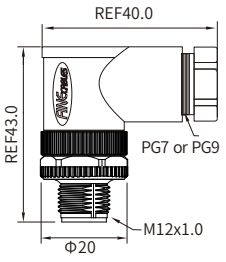
## Assembly Instruction



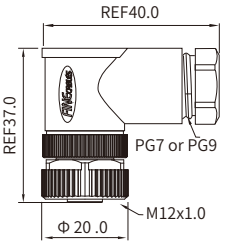
# M12 D-coding (Ethernet)

## M12 D-coding Angled Connector, Field Wirable Assembly, Screw joint, Die-cast Screw/Nut

Male




Female



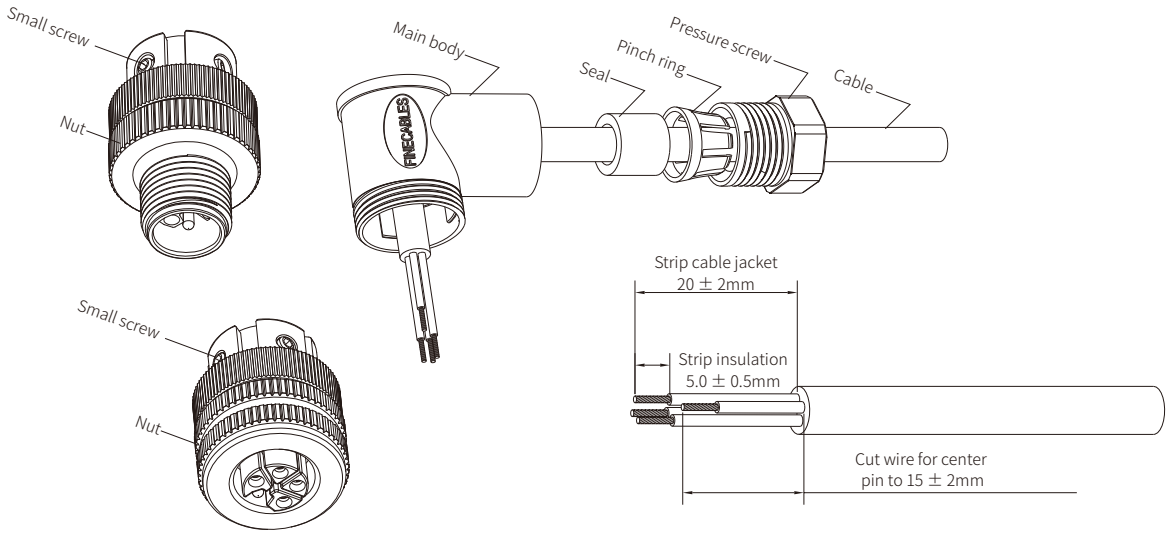

## Specifications

| Contacts | 4 |
|---|---|
| Certification | CYJV(CYJV7).E321413 |
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-101 |
| Ambient temperature | -25°C~+90°C |
| Connector insert | TPU |
| Connector contacts | Brass with gold plated |
| Connector body | PA+GF |
| Coupling nut/screw | Zinc alloy with nickel plated |
| Seal/O-ring | NBR |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Shielding | Unavailable |
| Suitable cable Dia | PG7: 4~6mm / PG9: 6~8mm |
| IP rating | IP67, IP68 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 4 A |
| Rated voltage | 250V AC/DC |
| Wire gauge | 0.34mm$^2$(AWG22) |

## Part Number

| Pins | Male | | Female | |
|---|---|---|---|---|
| | PG9 | PG7 | PG9 | PG7 |
| 4 | MB12MWDHD04RA-3 | MB12MWDHD04RA-4 | MB12FWDHD04RA-3 | MB12FWDHD04RA-4 |

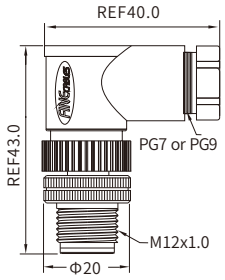
## Assembly Instruction



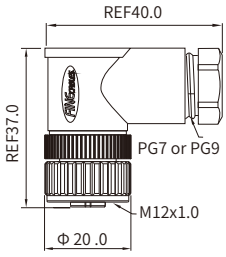
# M12 D-coding (Ethernet)

## M12 D-coding Angled Connector, Field Wirable Assembly, Screw joint, Plastic

Male




Female



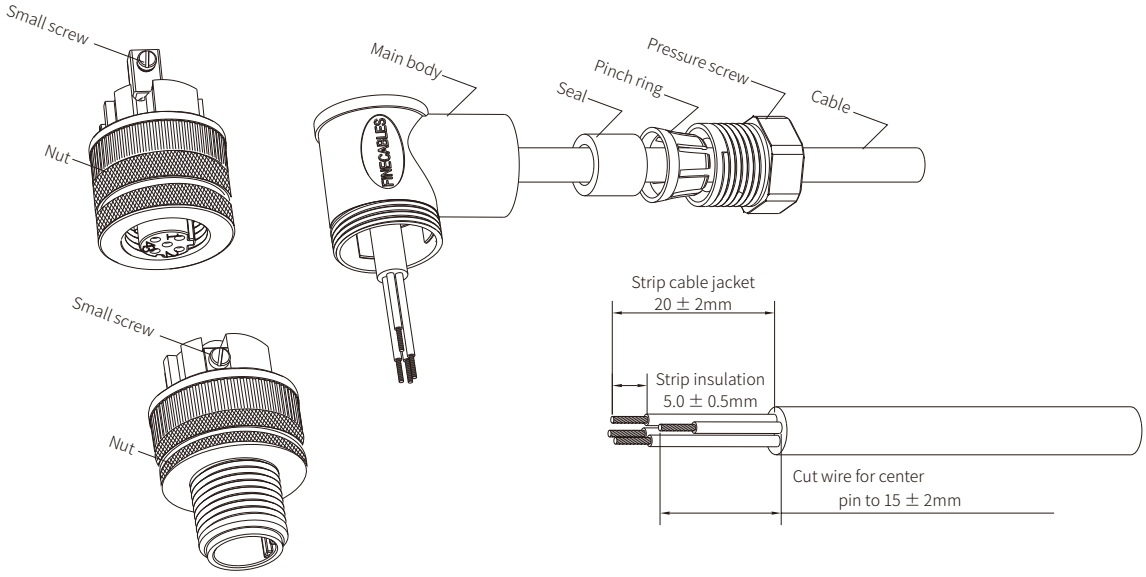

## Specifications

| Contacts | 4 |
|---|---|
| Certification | CYJV(CYJV7).E321413 |
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-101 |
| Ambient temperature | -25°C~+90°C |
| Connector insert | TPU |
| Connector contacts | Brass with gold plated |
| Connector body | PA+GF |
| Coupling nut/screw | PA+GF |
| Seal/O-ring | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Shielding | Unavailable |
| Suitable cable Dia | PG7: 4~6mm / PG9: 6~8mm |
| IP rating | IP67, IP68 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 4 A |
| Rated voltage | 250V AC/DC |
| Wire gauge | 0.34mm$^2$ (AWG22) |

## Part Number

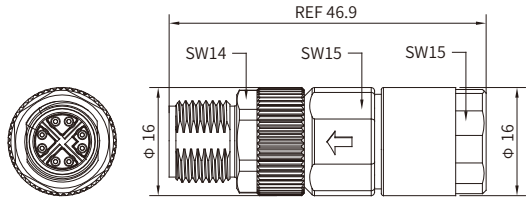
| Pins | Male | | Female | |
|---|---|---|---|---|
| | PG9 | PG7 | PG9 | PG7 |
| 4 | MB12MWDFP04RA-3 | MB12MWDFP04RA-4 | MB12FWDFP04RA-3 | MB12FWDFP04RA-4 |

## Assembly Instruction



# M12 X-coding (Ethernet)

## M12 X-coding Straight Connector, Male, Assembly Type




CE RoHS IP68

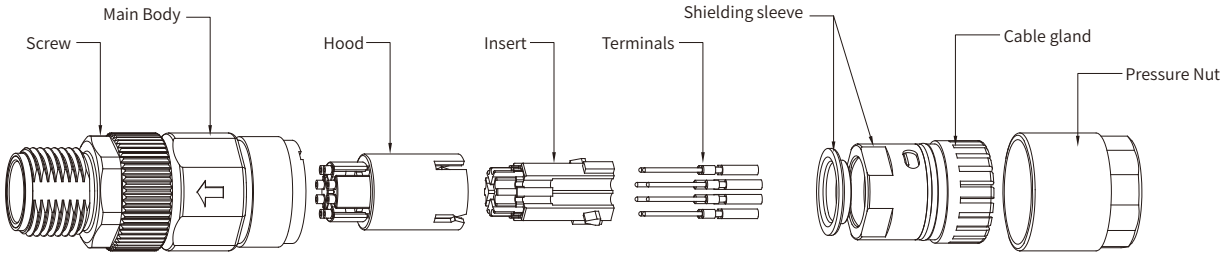
## Specifications

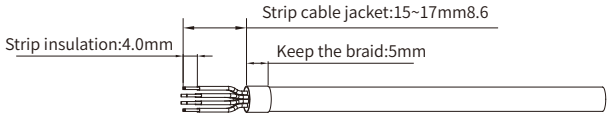
| Contacts | 8 |
|---|---|
| Pin layout(Male) | |
| Standard | IEC 61076-2-109 |
| Ambient temperature | -25°C~+90°C |
| Connector insert | PA+GF |
| Connector contacts | Brass with gold plated |
| Coupling nut/screw | Brass with gold plated |
| Seal/O-ring | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽10mΩ |
| Shielding | Available |
| IP rating | IP67, IP68 in locked condition |
| Mating endurance | >500 cycles |
| Suitable cable Dia | Φ6~8mm |
| Wire gauge1 | 0.34mm2(22AWG) |
| Wire gauge2 | 0.20mm2(24AWG) |
| Wire gauge3 | 0.15mm2(26AWG) |
| Rated current | 0.5 A |
| Rated voltage | 50V AC / 60V DC |

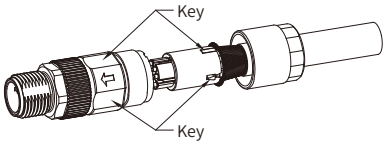
## Part Number

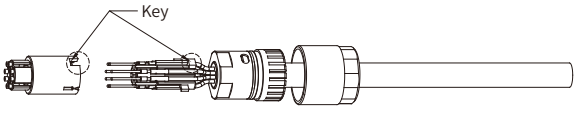
| Pins | Male |
|---|---|
| 8 | MB12MCSXFF08ST |

## Assembly Instruction



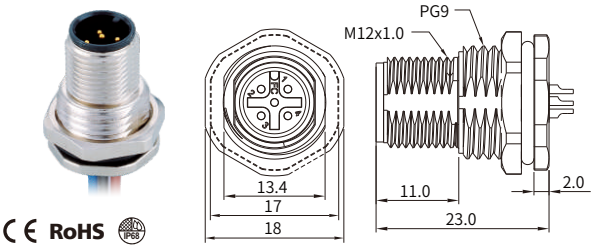



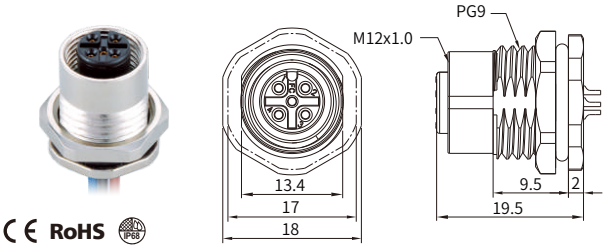
# M12 A-coding (Sensor and Actuator)

## M12 A-coding Straight Connector, Panel Mount, Die-cast Screw, Solder, Front fastened

Male




Female




## Specifications

| Contacts | 3 | 4 | 5 | 8 |
|---|---|---|---|---|
| Certification | CYJV2(CYJV8).E321413 | | CYJV(CYJV7).E321413 | |
| Pin layout(Male) | | | | |
| Pin layout(Female) | | | | |
| Standard | IEC 61076-2-101 | | | |
| Ambient temperature | -15°C~+85°C (flexible installation), -30°C~+85°C (fixed installation) | | | |
| Customized temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | | | |
| Connector insert | PA | | | |
| Connector contacts | Brass with gold plated | | | |
| Coupling nut/screw | Zinc alloy with nickel plated | | | |
| Seal/O-ring | Epoxy resin / FKM | | | |
| Insulation resistance | ⩾100MΩ | | | |
| Contact resistance | ⩽5mΩ | | | |
| Earth tag/pin | Unavailable | | | |
| IP rating | IP67, IP68 in locked condition | | | |
| Mating endurance | >500 cycles | | | |
| Rated current | 4 A | | | 2A |
| Rated voltage | 250V AC/DC | | 60V AC/DC | 30V AC/DC |
| Wire gauge | 0.34mm$^2$(AWG22) | | | 0.25mm$^2$(AWG24) |
| Panel cut-out | Refer to page 416 | | | |

## Part Number

| Pins | Cable length | Male PG9 | Female PG9 |
|---|---|---|---|
| 3 | 0.1m | MB12MSAFHD03ST-33401 | MB12FSAFHD03ST-33401 |
| | 0.3m | MB12MSAFHD03ST-33403 | MB12FSAFHD03ST-33403 |
| 4 | 0.1m | MB12MSAFHD04ST-33401 | MB12FSAFHD04ST-33401 |
| | 0.3m | MB12MSAFHD04ST-33403 | MB12FSAFHD04ST-33403 |
| 5 | 0.1m | MB12MSAFHD05ST-33401 | MB12FSAFHD05ST-33401 |
| | 0.3m | MB12MSAFHD05ST-33403 | MB12FSAFHD05ST-33403 |
| 8 | 0.1m | MB12MSAFHD08ST-32501 | MB12FSAFHD08ST-32501 |
| | 0.3m | MB12MSAFHD08ST-32503 | MB12FSAFHD08ST-32503 |

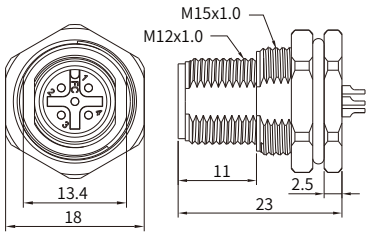
## Default wire colors

| Pin No. | | | | |
|---|---|---|---|---|
| Pin 1 | BN | BN | BN | WH |
| Pin 2 | | WH | WH | BN |
| Pin 3 | BU | BU | BU | GN |
| Pin 4 | BK | BK | BK | YE |
| Pin 5 | | | GY | GY |
| Pin 6 | | | | PK |
| Pin 7 | | | | BU |
| Pin 8 | | | | RD |

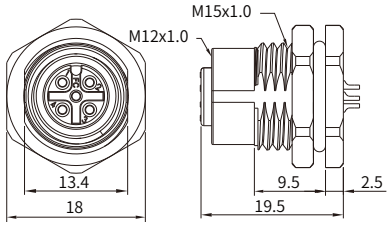
# M12 A-coding (Sensor and Actuator)

## M12 A-coding Straight Connector, Panel Mount, Plastic Solder, Front fastened

Male




Female




## Specifications

| Contacts | 3 | 4 | 5 | 8 |
|---|---|---|---|---|
| Pin layout(Male) | | | | |
| Pin layout(Female) | | | | |
| Standard | IEC 61076-2-101 | | | |
| Ambient temperature | -15°C~+85°C (flexible installation), -30°C~+85°C (fixed installation) | | | |
| Customized temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | | | |
| Connector insert | PA | | | |
| Connector contacts | Brass with gold plated | | | |
| Coupling nut/screw | PA+GF | | | |
| Seal/O-ring | Epoxy resin / FKM | | | |
| Insulation resistance | ⩾100MΩ | | | |
| Contact resistance | ⩽5mΩ | | | |
| Earth tag/pin | Unavailable | | | |
| IP rating | IP67, IP68 in locked condition | | | |
| Mating endurance | >500 cycles | | | |
| Rated current | 4 A | | | 2A |
| Rated voltage | 250V AC/DC | | 60V AC/DC | 30V AC/DC |
| Wire gauge | 0.34mm²(AWG22) | | | 0.25mm²(AWG24) |
| Panel cut-out | Refer to page 416 | | | |

## Part Number

| Pins | Cable length | Male M15x1.0 | Female M15x1.0 |
|---|---|---|---|
| 3 | 0.1m | MB12MSAFP03ST-13401 | MB12FSAFP03ST-13401 |
| | 0.3m | MB12MSAFP03ST-13403 | MB12FSAFP03ST-13403 |
| 4 | 0.1m | MB12MSAFP04ST-13401 | MB12FSAFP04ST-13401 |
| | 0.3m | MB12MSAFP04ST-13403 | MB12FSAFP04ST-13403 |
| 5 | 0.1m | MB12MSAFP05ST-13401 | MB12FSAFP05ST-13401 |
| | 0.3m | MB12MSAFP05ST-13403 | MB12FSAFP05ST-13403 |
| 8 | 0.1m | MB12MSAFP08ST-12501 | MB12FSAFP08ST-12501 |
| | 0.3m | MB12MSAFP08ST-12503 | MB12FSAFP08ST-12503 |

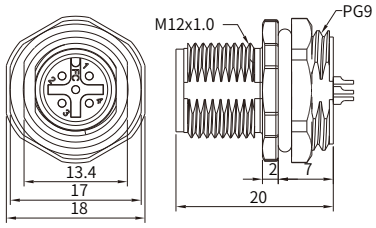
## Default wire colors

| Pin No. | | | | |
|---|---|---|---|---|
| Pin 1 | BN | BN | BN | WH |
| Pin 2 | | WH | WH | BN |
| Pin 3 | BU | BU | BU | GN |
| Pin 4 | BK | BK | BK | YE |
| Pin 5 | | | GY | GY |
| Pin 6 | | | | PK |
| Pin 7 | | | | BU |
| Pin 8 | | | | RD |

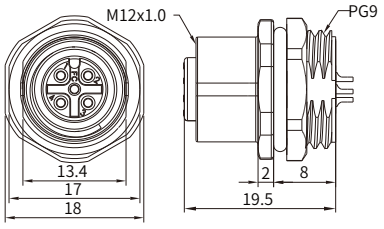
# M12 A-coding (Sensor and Actuator)

## M12 A-coding Straight Connector, Panel Mount, Die-cast Screw, Solder, Rear fastened

Male




Female




## Specifications

| Contacts | 3 | 4 | 5 | 8 |
|---|---|---|---|---|
| Certification | CYJV2(CYJV8).E321413 | | CYJV(CYJV7).E321413 | |
| Pin layout(Male) | | | | |
| Pin layout(Female) | | | | |
| Standard | IEC 61076-2-101 | | | |
| Ambient temperature | -15°C~+85°C (flexible installation), -30°C~+85°C (fixed installation) | | | |
| Customized temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | | | |
| Connector insert | PA | | | |
| Connector contacts | Brass with gold plated | | | |
| Coupling nut/screw | Zinc alloy with nickel plated | | | |
| Seal/O-ring | Epoxy resin / FKM | | | |
| Insulation resistance | ⩾100MΩ | | | |
| Contact resistance | ⩽5mΩ | | | |
| Earth tag/pin | Unavailable | | | |
| IP rating | IP67, IP68 in locked condition | | | |
| Mating endurance | >500 cycles | | | |
| Rated current | 4 A | | | 2A |
| Rated voltage | 250V AC/DC | | 60V AC/DC | 30V AC/DC |
| Wire gauge | 0.34mm$^2$(AWG22) | | | 0.25mm$^2$(AWG24) |
| Panel cut-out | Refer to page 416 | | | |

## Part Number

| Pins | Cable length | Male PG9 | Female PG9 |
|---|---|---|---|
| 3 | 0.1m | MB12MSARHD03ST-33401 | MB12FSARHD03ST-33401 |
| | 0.3m | MB12MSARHD03ST-33403 | MB12FSARHD03ST-33403 |
| 4 | 0.1m | MB12MSARHD04ST-33401 | MB12FSARHD04ST-33401 |
| | 0.3m | MB12MSARHD04ST-33403 | MB12FSARHD04ST-33403 |
| 5 | 0.1m | MB12MSARHD05ST-33401 | MB12FSARHD05ST-33401 |
| | 0.3m | MB12MSARHD05ST-33403 | MB12FSARHD05ST-33403 |
| 8 | 0.1m | MB12MSARHD08ST-32501 | MB12FSARHD08ST-32501 |
| | 0.3m | MB12MSARHD08ST-32503 | MB12FSARHD08ST-32503 |

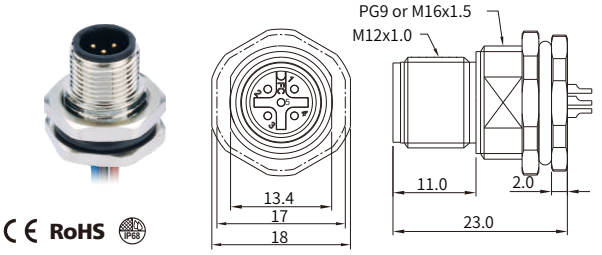
## Default wire colors

| Pin No. | | | | |
|---|---|---|---|---|
| Pin 1 | BN | BN | BN | WH |
| Pin 2 | | WH | WH | BN |
| Pin 3 | BU | BU | BU | GN |
| Pin 4 | BK | BK | BK | YE |
| Pin 5 | | | GY | GY |
| Pin 6 | | | | PK |
| Pin 7 | | | | BU |
| Pin 8 | | | | RD |

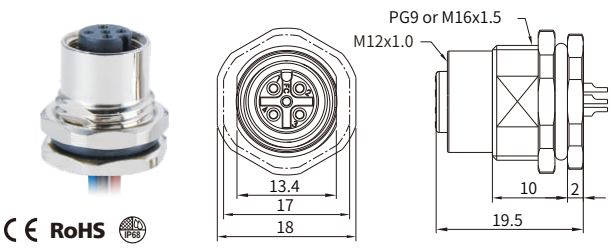
# M12 A-coding (Sensor and Actuator)

## M12 A-coding Straight Connector, Panel Mount, Solder, Front fastened

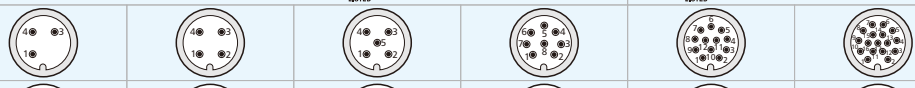
Male




Female




## Specifications

| Contacts | 3 | 4 | 5 | 8 | 12 | 17 |
|---|---|---|---|---|---|---|
| Certification | CYJV2(CYJV8).E321413 | | CYJV(CYJV7).E321413 | | CYJV(CYJV7).E321413 | |
| Pin layout(Male) |  | | | | | |
| Pin layout(Female) | | | | | | |
| Standard | IEC 61076-2-101 | | | | | |
| Ambient temperature | -15°C~+85°C (flexible installation), -30°C~+85°C (fixed installation) | | | | | |
| Customized temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | | | | | |
| Connector insert | TPU | | | | | |
| Connector contacts | Brass with gold plated | | | | | |
| Coupling nut/screw | Brass with nickel plated | | | | | |
| Seal/O-ring | Epoxy resin / FKM | | | | | |
| Insulation resistance | ⩾100MΩ | | | | | |
| Contact resistance | ⩽5mΩ | | | | | |
| Earth tag/pin | Unavailable | | | | | |
| IP rating | IP67, IP68 in locked condition | | | | | |
| Mating endurance | >500 cycles | | | | | |
| Rated current | 4 A | | | 2A | 1.5A | |
| Rated voltage | 250V AC/DC | | 60V AC/DC | 30V AC/DC | 30V AC/DC | |
| Wire gauge | 0.34mm²(AWG22) | | | 0.25mm²(AWG24) | 0.14mm²(AWG26) | |
| Panel cut-out | Refer to page 416 | | | | | |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | M16x1.5 | PG9 | M16x1.5 | PG9 |
| 3 | 0.1m | MB12MSAFF03ST-23401 | MB12MSAFF03ST-33401 | MB12FSAFF03ST-23401 | MB12FSAFF03ST-33401 |
| | 0.3m | MB12MSAFF03ST-23403 | MB12MSAFF03ST-33403 | MB12FSAFF03ST-23403 | MB12FSAFF03ST-33403 |
| 4 | 0.1m | MB12MSAFF04ST-23401 | MB12MSAFF04ST-33401 | MB12FSAFF04ST-23401 | MB12FSAFF04ST-33401 |
| | 0.3m | MB12MSAFF04ST-23403 | MB12MSAFF04ST-33403 | MB12FSAFF04ST-23403 | MB12FSAFF04ST-33403 |
| 5 | 0.1m | MB12MSAFF05ST-23401 | MB12MSAFF05ST-33401 | MB12FSAFF05ST-23401 | MB12FSAFF05ST-33401 |
| | 0.3m | MB12MSAFF05ST-23403 | MB12MSAFF05ST-33403 | MB12FSAFF05ST-23403 | MB12FSAFF05ST-33403 |
| 8 | 0.1m | MB12MSAFF08ST-22501 | MB12MSAFF08ST-32501 | MB12FSAFF08ST-22501 | MB12FSAFF08ST-32501 |
| | 0.3m | MB12MSAFF08ST-22503 | MB12MSAFF08ST-32503 | MB12FSAFF08ST-22503 | MB12FSAFF08ST-32503 |
| 12 | 0.1m | MB12MSAFF12ST-21401 | MB12MSAFF12ST-31401 | MB12FSAFF12ST-21401 | MB12FSAFF12ST-31401 |
| | 0.3m | MB12MSAFF12ST-21403 | MB12MSAFF12ST-31403 | MB12FSAFF12ST-21403 | MB12FSAFF12ST-31403 |
| 17 | 0.1m | MB12MSAFF17ST-21401 | MB12MSAFF17ST-31401 | MB12FSAFF17ST-21401 | MB12FSAFF17ST-31401 |
| | 0.3m | MB12MSAFF17ST-21403 | MB12MSAFF17ST-31403 | MB12FSAFF17ST-21403 | MB12FSAFF17ST-31403 |

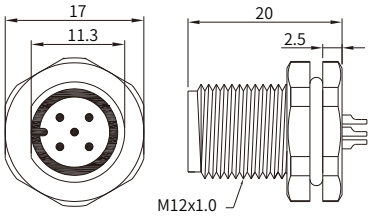
## Default wire colors

| Pin No. | | | | | | |
|---|---|---|---|---|---|---|
| Pin 1 | BN | BN | BN | WH | WH | BN 13. WH/GN |
| Pin 2 | | WH | WH | BN | BN | BU 14. BN/GN |
| Pin 3 | BU | BU | BU | GN | GN | WH 15. WH/YE |
| Pin 4 | BK | BK | BK | YE | YE | GN 16. YE/BN |
| Pin 5 | | | GY | GY | GY | PK 17. WH/GY |
| Pin 6 | | | | PK | PK | YE |
| Pin 7 | | | | BU | BU | BK |
| Pin 8 | | | | RD | RD | GY |
| Pin 9 | | | | | OR | RD |
| Pin 10 | | | | | TP | VT |
| Pin 11 | | | | | BK | GY/PK |
| Pin 12 | | | | | VT | RD/BU |

# M12 A-coding (Sensor and Actuator)

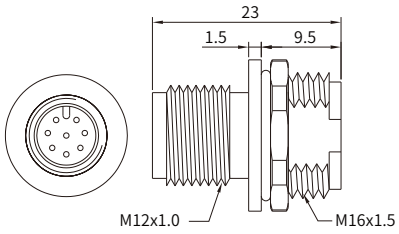
## M12 A-coding Straight Connector, Panel Mount, Plastic Solder

Front fastened




CE RoHS

Rear fastened




CE RoHS

## Specifications

| Contacts | 4 | 5 | 8 |
|---|---|---|---|
| Pin layout(Male) | | | |
| Standard | IEC 61076-2-101 | | |
| Ambient temperature | -15°C~+85°C (flexible installation), -30°C~+85°C (fixed installation) | | |
| Customized temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | | |
| Connector insert | PA+GF | | |
| Connector contacts | Brass with gold plated | | |
| Coupling nut/screw | PA+GF | | |
| Seal/O-ring | Epoxy resin / FKM | | |
| Insulation resistance | ⩾100MΩ | | |
| Contact resistance | ⩽5mΩ | | |
| Earth tag/pin | Unavailable | | |
| IP rating | IP67, IP68 in locked condition | | |
| Mating endurance | >500 cycles | | |
| Rated current | 4 A | | 2A |
| Rated voltage | 250V AC/DC | 60V AC/DC | 30V AC/DC |
| Wire gauge | 0.34mm$^2$(AWG22) | | 0.25mm$^2$(AWG24) |
| Panel cut-out | Refer to page 416 | | |

## Part Number

| Pins | Cable length | Front fastened M12x1.0 | Rear fastened M16x1.5 |
|---|---|---|---|
| 4 | 0.1m | MB12MSAFP04ST-03401 | MB12MSARP04ST-23401 |
| | 0.3m | MB12MSAFP04ST-03403 | MB12MSARP04ST-23403 |
| 5 | 0.1m | MB12MSAFP05ST-03401 | MB12MSARP05ST-23401 |
| | 0.3m | MB12MSAFP05ST-03403 | MB12MSARP05ST-23403 |
| 8 | 0.1m | MB12MSAFP08ST-02501 | MB12MSARP08ST-22501 |
| | 0.3m | MB12MSAFP08ST-02503 | MB12MSARP08ST-22503 |

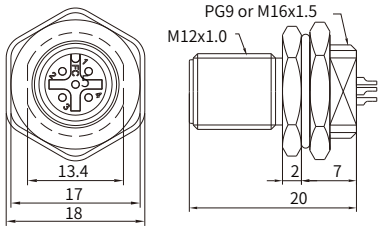
## Default wire colors

| Pin No. | | | | |
|---|---|---|---|---|
| Pin 1 | BN | BN | BN | WH |
| Pin 2 | | WH | WH | BN |
| Pin 3 | BU | BU | BU | GN |
| Pin 4 | BK | BK | BK | YE |
| Pin 5 | | | GY | GY |
| Pin 6 | | | | PK |
| Pin 7 | | | | BU |
| Pin 8 | | | | RD |

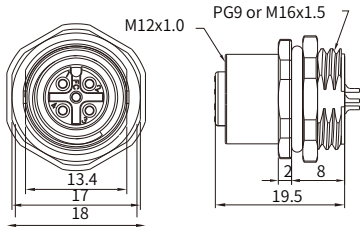
# M12 A-coding (Sensor and Actuator)

## M12 A-coding Straight Connector, Panel Mount, Solder, Rear fastened

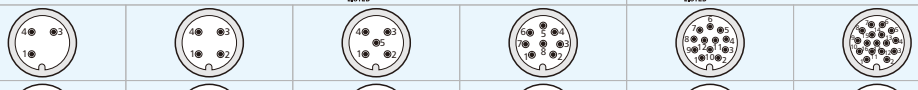
Male




Female




## Specifications

| Contacts | 3 | 4 | 5 | 8 | 12 | 17 |
|---|---|---|---|---|---|---|
| Certification | CYJV2(CYJV8).E321413 | | CYJV(CYJV7).E321413 | | CYJV(CYJV7).E321413 | |
| Pin layout(Male) |  | | | | | |
| Pin layout(Female) | | | | | | |
| Standard | IEC 61076-2-101 | | | | | |
| Ambient temperature | -15°C~+85°C (flexible installation), -30°C~+85°C (fixed installation) | | | | | |
| Customized temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | | | | | |
| Connector insert | TPU | | | | | |
| Connector contacts | Brass with gold plated | | | | | |
| Coupling nut/screw | Brass with nickel plated | | | | | |
| Seal/O-ring | Epoxy resin / FKM | | | | | |
| Insulation resistance | ⩾100MΩ | | | | | |
| Contact resistance | ⩽5mΩ | | | | | |
| Earth tag/pin | Unavailable | | | | | |
| IP rating | IP67, IP68 in locked condition | | | | | |
| Mating endurance | >500 cycles | | | | | |
| Rated current | 4 A | | | 2A | 1.5A | |
| Rated voltage | 250V AC/DC | | 60V AC/DC | 30V AC/DC | 30V AC/DC | |
| Wire gauge | 0.34mm²(AWG22) | | | 0.25mm²(AWG24) | 0.14mm²(AWG26) | |
| Panel cut-out | Refer to page 416 | | | | | |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | M16x1.5 | PG9 | M16x1.5 | PG9 |
| 3 | 0.1m | MB12MSARF03ST-23401 | MB12MSARF03ST-33401 | MB12FSARF03ST-23401 | MB12FSARF03ST-33401 |
| | 0.3m | MB12MSARF03ST-23403 | MB12MSARF03ST-33403 | MB12FSARF03ST-23403 | MB12FSARF03ST-33403 |
| 4 | 0.1m | MB12MSARF04ST-23401 | MB12MSARF04ST-33401 | MB12FSARF04ST-23401 | MB12FSARF04ST-33401 |
| | 0.3m | MB12MSARF04ST-23403 | MB12MSARF04ST-33403 | MB12FSARF04ST-23403 | MB12FSARF04ST-33403 |
| 5 | 0.1m | MB12MSARF05ST-23401 | MB12MSARF05ST-33401 | MB12FSARF05ST-23401 | MB12FSARF05ST-33401 |
| | 0.3m | MB12MSARF05ST-23403 | MB12MSARF05ST-33403 | MB12FSARF05ST-23403 | MB12FSARF05ST-33403 |
| 8 | 0.1m | MB12MSARF08ST-22501 | MB12MSARF08ST-32501 | MB12FSARF08ST-22501 | MB12FSARF08ST-32501 |
| | 0.3m | MB12MSARF08ST-22503 | MB12MSARF08ST-32503 | MB12FSARF08ST-22503 | MB12FSARF08ST-32503 |
| 12 | 0.1m | MB12MSARF12ST-21401 | MB12MSARF12ST-31401 | MB12FSARF12ST-21401 | MB12FSARF12ST-31401 |
| | 0.3m | MB12MSARF12ST-21403 | MB12MSARF12ST-31403 | MB12FSARF12ST-21403 | MB12FSARF12ST-31403 |
| 17 | 0.1m | MB12MSARF17ST-21401 | MB12MSARF17ST-31401 | MB12FSARF17ST-21401 | MB12FSARF17ST-31401 |
| | 0.3m | MB12MSARF17ST-21403 | MB12MSARF17ST-31403 | MB12FSARF17ST-21403 | MB12FSARF17ST-31403 |

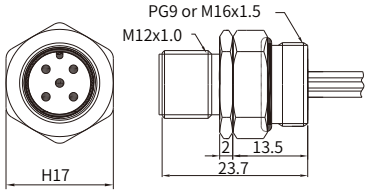
## Default wire colors

| Pin No. | | | | | | |
|---|---|---|---|---|---|---|
| Pin 1 | BN | BN | BN | WH | WH | BN 13. WH/GN |
| Pin 2 | | WH | WH | BN | BN | BU 14. BN/GN |
| Pin 3 | BU | BU | BU | GN | GN | WH 15. WH/YE |
| Pin 4 | BK | BK | BK | YE | YE | GN 16. YE/BN |
| Pin 5 | | | GY | GY | GY | PK 17. WH/GY |
| Pin 6 | | | | PK | PK | YE |
| Pin 7 | | | | BU | BU | BK |
| Pin 8 | | | | RD | RD | GY |
| Pin 9 | | | | | OR | RD |
| Pin 10 | | | | | TP | VT |
| Pin 11 | | | | | BK | GY/PK |
| Pin 12 | | | | | VT | RD/BU |

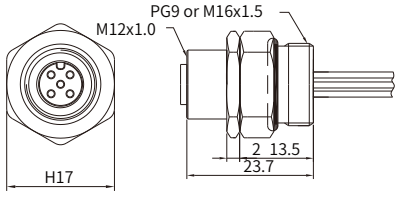
# M12 A-coding (Sensor and Actuator)

## M12 A-coding Straight Connector, Panel Mount, Solder, Rear fastened, Adjustable Nut

Male




Female




CE RoHS

CE RoHS

## Specifications

| Contacts | 3 | 4 | 5 | 8 | 12 | 17 |
|---|---|---|---|---|---|---|
| Certification | cULus CYJV2(CYJV8).E321413 | | cULus LISTED CYJV(CYJV7).E321413 | | cULus LISTED CYJV(CYJV7).E321413 | |
| Pin layout(Male) | | | | | | |
| Pin layout(Female) | | | | | | |
| Standard | IEC 61076-2-101 | | | | | |
| Ambient temperature | -15°C~+85°C (flexible installation), -30°C~+85°C (fixed installation) | | | | | |
| Customized temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | | | | | |
| Connector insert | TPU | | | | | |
| Connector contacts | Brass with gold plated | | | | | |
| Coupling nut/screw | Brass with nickel plated | | | | | |
| Seal/O-ring | Epoxy resin / FKM | | | | | |
| Insulation resistance | ⩾100MΩ | | | | | |
| Contact resistance | ⩽5mΩ | | | | | |
| Earth tag/pin | Unavailable | | | | | |
| IP rating | IP67, IP68 in locked condition | | | | | |
| Mating endurance | >500 cycles | | | | | |
| Rated current | 4 A | | | 2A | 1.5A | |
| Rated voltage | 250V AC/DC | | 60V AC/DC | 30V AC/DC | 30V AC/DC | |
| Wire gauge | 0.34mm²(AWG22) | | | 0.25mm²(AWG24) | 0.14mm²(AWG26) | |
| Panel cut-out | Refer to page 416 | | | | | |

## Part Number

| Pins | Cable length | Male(Adjustable Nut) | | Female(Adjustable Nut) | |
|---|---|---|---|---|---|
| | | M16x1.5 | PG9 | M16x1.5 | PG9 |
| 3 | 0.1m | MB12MSARF03ST-23401 | MB12MSARF03ST-33401 | MB12FSARF03ST-23401 | MB12FSARF03ST-33401 |
| | 0.3m | MB12MSARF03ST-23403 | MB12MSARF03ST-33403 | MB12FSARF03ST-23403 | MB12FSARF03ST-33403 |
| 4 | 0.1m | MB12MSARF04ST-23401 | MB12MSARF04ST-33401 | MB12FSARF04ST-23401 | MB12FSARF04ST-33401 |
| | 0.3m | MB12MSARF04ST-23403 | MB12MSARF04ST-33403 | MB12FSARF04ST-23403 | MB12FSARF04ST-33403 |
| 5 | 0.1m | MB12MSARF05ST-23401 | MB12MSARF05ST-33401 | MB12FSARF05ST-23401 | MB12FSARF05ST-33401 |
| | 0.3m | MB12MSARF05ST-23403 | MB12MSARF05ST-33403 | MB12FSARF05ST-23403 | MB12FSARF05ST-33403 |
| 8 | 0.1m | MB12MSARF08ST-22501 | MB12MSARF08ST-32501 | MB12FSARF08ST-22501 | MB12FSARF08ST-32501 |
| | 0.3m | MB12MSARF08ST-22503 | MB12MSARF08ST-32503 | MB12FSARF08ST-22503 | MB12FSARF08ST-32503 |
| 12 | 0.1m | MB12MSARF12ST-21401 | MB12MSARF12ST-31401 | MB12FSARF12ST-21401 | MB12FSARF12ST-31401 |
| | 0.3m | MB12MSARF12ST-21403 | MB12MSARF12ST-31403 | MB12FSARF12ST-21403 | MB12FSARF12ST-31403 |
| 17 | 0.1m | MB12MSARF17ST-21401 | MB12MSARF17ST-31401 | MB12FSARF17ST-21401 | MB12FSARF17ST-31401 |
| | 0.3m | MB12MSARF17ST-21403 | MB12MSARF17ST-31403 | MB12FSARF17ST-21403 | MB12FSARF17ST-31403 |

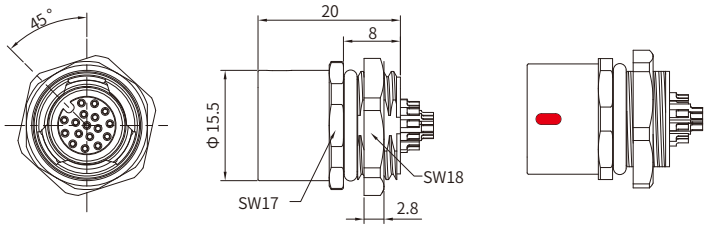
## Default wire colors

| Pin No. | | | | | | |
|---|---|---|---|---|---|---|
| Pin 1 | BN | BN | BN | WH | WH | BN 13. WH/GN |
| Pin 2 | | WH | WH | BN | BN | BU 14. BN/GN |
| Pin 3 | BU | BU | BU | GN | GN | WH 15. WH/YE |
| Pin 4 | BK | BK | BK | YE | YE | GN 16. YE/BN |
| Pin 5 | | | GY | GY | GY | PK 17. WH/GY |
| Pin 6 | | | | PK | PK | YE |
| Pin 7 | | | | BU | BU | BK |
| Pin 8 | | | | RD | RD | GY |
| Pin 9 | | | | | OR | RD |
| Pin 10 | | | | | TP | VT |
| Pin 11 | | | | | BK | GY/PK |
| Pin 12 | | | | | VT | RD/BU |

# M12 A-coding (Sensor and Actuator)

## M12 A-coding Push-Pull Female Straight Panel Mount, Rear fastened, Shielded

Female




RoHS

## Specifications

| Contacts | 3 | 4 | 5 | 8 | 12 | 17 |
|---|---|---|---|---|---|---|
| Pin layout(Female) | | | | | | |
| Standard | IEC 61076-2-012-2020 | | | | | |
| Ambient temperature | -25 °C ~ +85°C | | | | | |
| Insulator | PA | | | | | |
| Connector contacts | Brass with gold plated | | | | | |
| Out shell | Brass with Black nickel plated | | | | | |
| Insulator resistance | ⩾100MΩ | | | | | |
| IP rating | IP 67(Mated) | | | | | |
| Shielding effciency | at 10MHz>75dB/at 1GHz>40dB | | | | | |
| Salt spray corrosion test | >96h | | | | | |
| Endurance | 500 cycles | | | | | |
| Rated current | 4 A | | | 2A | 1.5A | |
| Voltage | 250V AC/DC | | 60V AC/DC | 30V AC/DC | 30V AC/DC | |
| Wire gauge / size | 0.34mm² (AWG22) | | | 0.25mm² (AWG24) | 0.14mm² (AWG26) | |
| Panel cut-out | Refer to page 416 | | | | | |

## Part Number

| Pins | Cable length | Female |
|---|---|---|
| 3 | 0.1m | MB12FSPAPP03ST-2-23401 |
| | 0.3m | MB12FSPAPP03ST-2-23403 |
| 4 | 0.1m | MB12FSPAPP04ST-2-23401 |
| | 0.3m | MB12FSPAPP04ST-2-23403 |
| 5 | 0.1m | MB12FSPAPP05ST-2-23401 |
| | 0.3m | MB12FSPAPP05ST-2-23403 |
| 8 | 0.1m | MB12FSPAPP08ST-2-22501 |
| | 0.3m | MB12FSPAPP08ST-2-22503 |
| 12 | 0.1m | MB12FSPAPP12ST-2-21401 |
| | 0.3m | MB12FSPAPP12ST-2-21403 |
| 17 | 0.1m | MB12FSPAPP17ST-2-21401 |
| | 0.3m | MB12FSPAPP17ST-2-21403 |

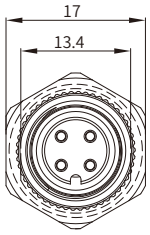
## Default wire colors

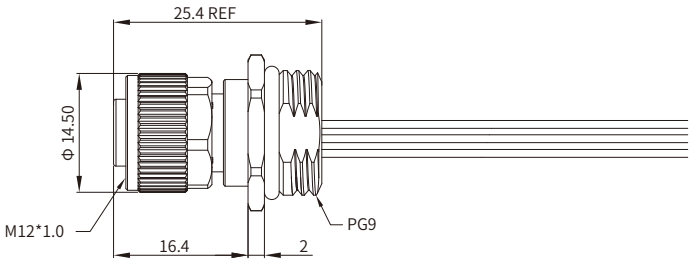
| Pin No. | | | | | | |
|---|---|---|---|---|---|---|
| Pin 1 | BN | BN | BN | WH | WH | BN 13. WH/GN |
| Pin 2 | | WH | WH | BN | BN | BU 14. BN/GN |
| Pin 3 | BU | BU | BU | GN | GN | WH 15. WH/YE |
| Pin 4 | BK | BK | BK | YE | YE | GN 16. YE/BN |
| Pin 5 | | | GY | GY | GY | PK 17. WH/GY |
| Pin 6 | | | | PK | PK | YE |
| Pin 7 | | | | BU | BU | BK |
| Pin 8 | | | | RD | RD | GY |
| Pin 9 | | | | | OR | RD |
| Pin 10 | | | | | TP | VT |
| Pin 11 | | | | | BK | GY/PK |
| Pin 12 | | | | | VT | RD/BU |

# M12 A-coding (Sensor and Actuator)

## M12 A-coding Female Straight Connector, Rotated Screw, Panel Mounted, Solder, Rear Fastened

Female




## Specifications

| Contacts | 3 | 4 | 5 | 8 | 12 | 17 |
|---|---|---|---|---|---|---|
| Certification | CYJV2(CYJV8).E321413 | | CYJV(CYJV7).E321413 | | CYJV(CYJV7).E321413 | |
| Pin layout(Female) | | | | | | |
| Standard | IEC61076-2-101 | | | | | |
| Ambient temperature | -15°C~+85°C(flexible installation) -30°C~+85°C(fixed installation) | | | | | |
| Connector insert | TPU | | | | | |
| Connector contacts | Brass with gold plated | | | | | |
| Connector shield | Brass with nickel plated | | | | | |
| Insulation resistance | ⩾ 100 MΩ | | | | | |
| Contact resistance | ⩽ 5 mΩ | | | | | |
| Shielding | unavailable | | | | | |
| IP rating | IP67 in locked condition | | | | | |
| Mating endurance | >500 cycles | | | | | |
| Seal O-ring | Expoxy resin /FKM | | | | | |
| Rated current | 250V AC/DC, 4A | | 60V AC/DC, 4A | 30V AC/DC, 2A | 30V AC/DC, 1.5A | |
| Wire gauge / size | 0.34mm$^2$, AWG22 | | | 0.25mm$^2$(AWG24) | 0.14mm$^2$(AWG26) | |
| Panel cut-out | Refer to page 416 | | | | | |

## Part Number

| Pins | Cable length | Female |
|---|---|---|
| 3 | 0.1m | MB12FSARHD03ST-23401 |
| | 0.3m | MB12FSARHD03ST-23403 |
| 4 | 0.1m | MB12FSARHD04ST-23401 |
| | 0.3m | MB12FSARHD04ST-23403 |
| 5 | 0.1m | MB12FSARHD05ST-23401 |
| | 0.3m | MB12FSARHD05ST-23403 |
| 8 | 0.1m | MB12FSARHD08ST-22501 |
| | 0.3m | MB12FSARHD08ST-22503 |
| 12 | 0.1m | MB12FSARHD12ST-21401 |
| | 0.3m | MB12FSARHD12ST-21403 |
| 17 | 0.1m | MB12FSARHD17ST-21401 |
| | 0.3m | MB12FSARHD17ST-21403 |

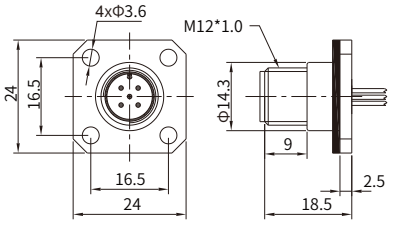
## Default wire colors

| Pin No. | | | | | | |
|---|---|---|---|---|---|---|
| Pin 1 | BN | BN | BN | WH | WH | BN 13. WH/GN |
| Pin 2 | | WH | WH | BN | BN | BU 14. BN/GN |
| Pin 3 | BU | BU | BU | GN | GN | WH 15. WH/YE |
| Pin 4 | BK | BK | BK | YE | YE | GN 16. YE/BN |
| Pin 5 | | | GY | GY | GY | PK 17. WH/GY |
| Pin 6 | | | | PK | PK | YE |
| Pin 7 | | | | BU | BU | BK |
| Pin 8 | | | | RD | RD | GY |
| Pin 9 | | | | | OR | RD |
| Pin 10 | | | | | TP | VT |
| Pin 11 | | | | | BK | GY/PK |
| Pin 12 | | | | | VT | RD/BU |

# M12 A-coding (Sensor and Actuator)

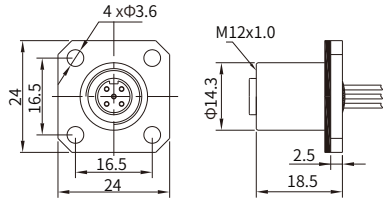
## M12 A-coding Straight Connector, Panel Mount, Solder, with Flange

Male




CE RoHS

Female




CE RoHS

## Specifications

| Contacts | 3 | 4 | 5 | 8 | 12 | 17 |
|---|---|---|---|---|---|---|
| Pin layout(Male) | | | | | | |
| Pin layout(Female) | | | | | | |
| Standard | IEC 61076-2-101 | | | | | |
| Ambient temperature | -15°C~+85°C (flexible installation), -30°C~+85°C (fixed installation) | | | | | |
| Customized temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | | | | | |
| Connector insert | TPU | | | | | |
| Connector contacts | Brass with gold plated | | | | | |
| Coupling nut/screw | Brass with nickel plated | | | | | |
| Seal/O-ring | Epoxy resin / FKM | | | | | |
| Insulation resistance | ⩾100MΩ | | | | | |
| Contact resistance | ⩽5mΩ | | | | | |
| Earth tag/pin | Unavailable | | | | | |
| IP rating | IP67, IP68 in locked condition | | | | | |
| Mating endurance | >500 cycles | | | | | |
| Rated current | 4 A | | | 2A | 1.5A | |
| Rated voltage | 250V AC/DC | | 60V AC/DC | 30V AC/DC | 30V AC/DC | |
| Wire gauge | 0.34mm²(AWG22) | | | 0.25mm²(AWG24) | 0.14mm²(AWG26) | |

## Part Number

| Pins | Cable length | Male | Female |
|---|---|---|---|
| 3 | 0.1m | MB12MSAFLF03ST-3401 | MB12FSAFLF03ST-3401 |
| | 0.3m | MB12MSAFLF03ST-3403 | MB12FSAFLF03ST-3403 |
| 4 | 0.1m | MB12MSAFLF04ST-3401 | MB12FSAFLF04ST-3401 |
| | 0.3m | MB12MSAFLF04ST-3403 | MB12FSAFLF04ST-3403 |
| 5 | 0.1m | MB12MSAFLF05ST-3401 | MB12FSAFLF05ST-3401 |
| | 0.3m | MB12MSAFLF05ST-3403 | MB12FSAFLF05ST-3403 |
| 8 | 0.1m | MB12MSAFLF08ST-2501 | MB12FSAFLF08ST-2501 |
| | 0.3m | MB12MSAFLF08ST-2503 | MB12FSAFLF08ST-2503 |
| 12 | 0.1m | MB12MSAFLF12ST-1401 | MB12FSAFLF12ST-1401 |
| | 0.3m | MB12MSAFLF12ST-1403 | MB12FSAFLF12ST-1403 |
| 17 | 0.1m | MB12MSAFLF17ST-1401 | MB12FSAFLF17ST-1401 |
| | 0.3m | MB12MSAFLF17ST-1403 | MB12FSAFLF17ST-1403 |

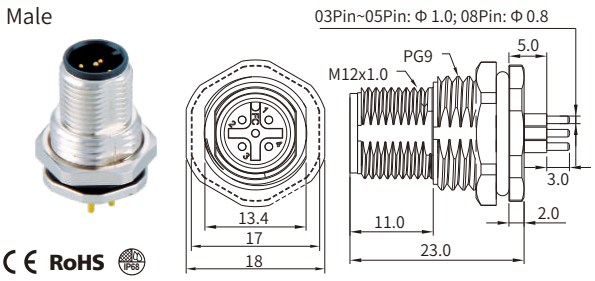
## Default wire colors

| Pin No. | | | | | | |
|---|---|---|---|---|---|---|
| Pin 1 | BN | BN | BN | WH | WH | BN 13. WH/GN |
| Pin 2 | | WH | WH | BN | BN | BU 14. BN/GN |
| Pin 3 | BU | BU | BU | GN | GN | WH 15. WH/YE |
| Pin 4 | BK | BK | BK | YE | YE | GN 16. YE/BN |
| Pin 5 | | | GY | GY | GY | PK 17. WH/GY |
| Pin 6 | | | | PK | PK | YE |
| Pin 7 | | | | BU | BU | BK |
| Pin 8 | | | | RD | RD | GY |
| Pin 9 | | | | | OR | RD |
| Pin 10 | | | | | TP | VT |
| Pin 11 | | | | | BK | GY/PK |
| Pin 12 | | | | | VT | RD/BU |

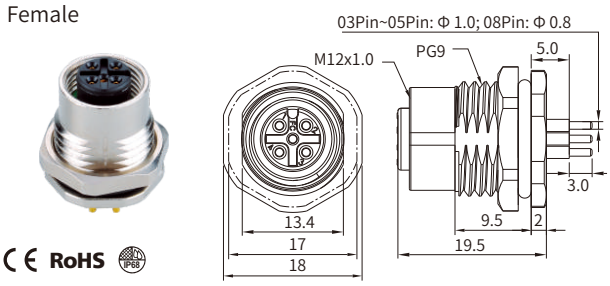
# M12 A-coding (Sensor and Actuator)

## M12 A-coding Straight Connector, Panel Mount, Die-cast Screw, PCB Type, Front Fastened

Male




Female




## Specifications

| Contacts | 3 | 4 | 5 | 8 |
|---|---|---|---|---|
| Certification | CYJV2(CYJV8).E321413 | | CYJV(CYJV7).E321413 | |
| Pin layout(Male) | | | | |
| Pin layout(Female) | | | | |
| Standard | IEC 61076-2-101 | | | |
| Ambient temperature | -25°C ~ +90°C | | | |
| Connector insert | PA | | | |
| Connector contacts | Brass with gold plated | | | |
| Coupling nut/screw | Zinc alloy with nickel plated | | | |
| Seal/O-ring | Epoxy resin / FKM | | | |
| Insulation resistance | ⩾100MΩ | | | |
| Contact resistance | ⩽5mΩ | | | |
| Earth tag/pin | Unavailable | | | |
| IP rating | IP67, IP68 in locked condition | | | |
| Mating endurance | >500 cycles | | | |
| Rated current | 4 A | | | 2A |
| Rated voltage | 250V AC/DC | | 60V AC/DC | 30V AC/DC |
| Panel cut-out | Refer to page 416 | | | |
| PCB layout | Refer to page 415 | | | |

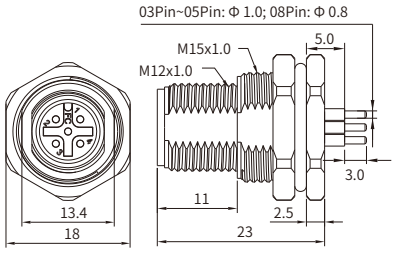
## Part Number

| Pins | Male | Female |
|---|---|---|
| | PG9 | PG9 |
| 3 | MB12MBAFHD03ST-3 | MB12FBAFHD03ST-3 |
| 4 | MB12MBAFHD04ST-3 | MB12FBAFHD04ST-3 |
| 5 | MB12MBAFHD05ST-3 | MB12FBAFHD05ST-3 |
| 8 | MB12MBAFHD08ST-3 | MB12FBAFHD08ST-3 |

# M12 A-coding (Sensor and Actuator)

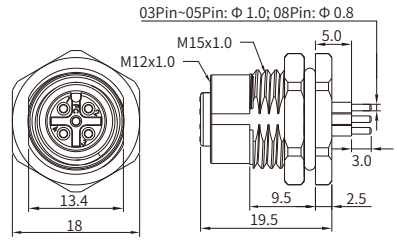
## M12 A-coding Straight Connector, Panel Mount, Plastic PCB Type, M15 thread Front fastened

Male




CE RoHS

Female




CE RoHS

## Specifications

| Contacts | 3 | 4 | 5 | 8 |
|---|---|---|---|---|
| Pin layout(Male) | | | | |
| Pin layout(Female) | | | | |
| Standard | IEC 61076-2-101 | | | |
| Ambient temperature | -25°C ~ +90°C | | | |
| Connector insert | PA | | | |
| Connector contacts | Brass with gold plated | | | |
| Coupling nut/screw | PA+GF | | | |
| Seal/O-ring | Epoxy resin / FKM | | | |
| Insulation resistance | ⩾100MΩ | | | |
| Contact resistance | ⩽5mΩ | | | |
| Earth tag/pin | Unavailable | | | |
| IP rating | IP67, IP68 in locked condition | | | |
| Mating endurance | >500 cycles | | | |
| Rated current | 4 A | | | 2A |
| Rated voltage | 250V AC/DC | | 60V AC/DC | 30V AC/DC |
| Panel cut-out | Refer to page 416 | | | |
| PCB layout | Refer to page 415 | | | |

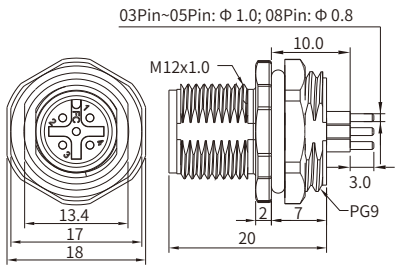
## Part Number

| Pins | Male M15x1.0 | Female M15x1.0 |
|---|---|---|
| 3 | MB12MBAFP03ST-1 | MB12FBAFP03ST-1 |
| 4 | MB12MBAFP04ST-1 | MB12FBAFP04ST-1 |
| 5 | MB12MBAFP05ST-1 | MB12FBAFP05ST-1 |
| 8 | MB12MBAFP08ST-1 | MB12FBAFP08ST-1 |

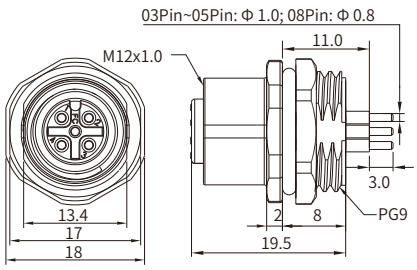
# M12 A-coding (Sensor and Actuator)

## M12 A-coding Straight Connector, Panel Mount, Die-cast Screw, PCB Type, Rear fastened

Male




Female




## Specifications

| Contacts | 3 | 4 | 5 | 8 |
|---|---|---|---|---|
| Certification | cULus CYJV2(CYJV8).E321413 | | cULus LISTED CYJV(CYJV7).E321413 | |
| Pin layout(Male) | | | | |
| Pin layout(Female) | | | | |
| Standard | IEC 61076-2-101 | | | |
| Ambient temperature | -25°C ~ +90°C | | | |
| Connector insert | PA | | | |
| Connector contacts | Brass with gold plated | | | |
| Coupling nut/screw | Zinc alloy with nickel plated | | | |
| Seal/O-ring | Epoxy resin / FKM | | | |
| Insulation resistance | ⩾100MΩ | | | |
| Contact resistance | ⩽5mΩ | | | |
| Earth tag/pin | Unavailable | | | |
| IP rating | IP67, IP68 in locked condition | | | |
| Mating endurance | >500 cycles | | | |
| Rated current | 4 A | | | 2A |
| Rated voltage | 250V AC/DC | | 60V AC/DC | 30V AC/DC |
| Panel cut-out | Refer to page 416 | | | |
| PCB layout | Refer to page 415 | | | |

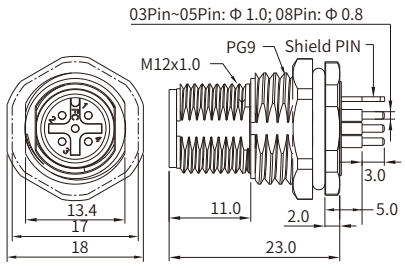
## Part Number

| Pins | Male | Female |
|---|---|---|
| | PG9 | PG9 |
| 3 | MB12MBARHD03ST-3 | MB12FBARHD03ST-3 |
| 4 | MB12MBARHD04ST-3 | MB12FBARHD04ST-3 |
| 5 | MB12MBARHD05ST-3 | MB12FBARHD05ST-3 |
| 8 | MB12MBARHD08ST-3 | MB12FBARHD08ST-3 |

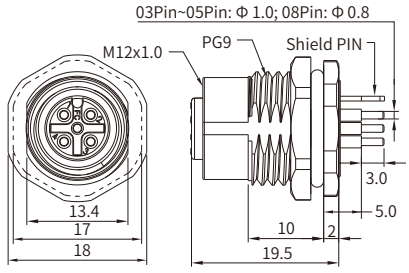
# M12 A-coding (Sensor and Actuator)

## M12 A-coding Straight Connector, Panel, Die-cast Screw, PCB Type, Front fastened, With Earth Pin

Male




Female




## Specifications

| Contacts | 3 | 4 | 5 | 8 |
|---|---|---|---|---|
| Certification | | CYJV2(CYJV8).E321413 | CYJV(CYJV7).E321413 | |
| Pin layout(Male) | | | | |
| Pin layout(Female) | | | | |
| Standard | IEC 61076-2-101 | | | |
| Ambient temperature | -25°C ~ +90°C | | | |
| Connector insert | PA | | | |
| Connector contacts | Brass with gold plated | | | |
| Coupling nut/screw | Zinc alloy with nickel plated | | | |
| Seal/O-ring | Epoxy resin / FKM | | | |
| Insulation resistance | ⩾100MΩ | | | |
| Contact resistance | ⩽5mΩ | | | |
| Earth tag/pin | Available | | | |
| IP rating | IP67, IP68 in locked condition | | | |
| Mating endurance | >500 cycles | | | |
| Rated current | 4 A | | | 2A |
| Rated voltage | 250V AC/DC | | 60V AC/DC | 30V AC/DC |
| Panel cut-out | Refer to page 416 | | | |
| PCB layout | Refer to page 415 | | | |

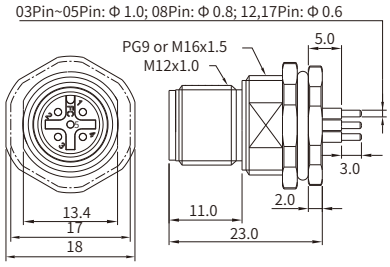
## Part Number

| Pins | Male | Female |
|---|---|---|
| | PG9 | PG9 |
| 3 | MB12MBSAFHD03ST-3 | MB12FBSAFHD03ST-3 |
| 4 | MB12MBSAFHD04ST-3 | MB12FBSAFHD04ST-3 |
| 5 | MB12MBSAFHD05ST-3 | MB12FBSAFHD05ST-3 |
| 8 | MB12MBSAFHD08ST-3 | MB12FBSAFHD08ST-3 |

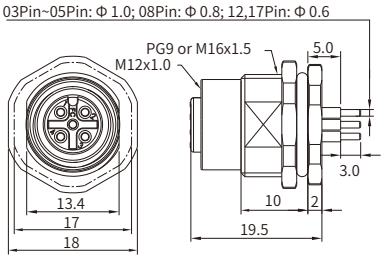
# M12 A-coding (Sensor and Actuator)

## M12 A-coding Straight Connector, Panel Mount, PCB Type, Front fastened

Male




Female




## Specifications

| Contacts | 3 | 4 | 5 | 8 | 12 | 17 |
|---|---|---|---|---|---|---|
| Certification | CYJV2(CYJV8).E321413 | | CYJV(CYJV7).E321413 | | CYJV(CYJV7).E321413 | |
| Pin layout(Male) | | | | | | |
| Pin layout(Female) | | | | | | |
| Standard | IEC 61076-2-101 | | | | | |
| Ambient temperature | -25°C ~ +90°C | | | | | |
| Connector insert | TPU | | | | | |
| Connector contacts | Brass with gold plated | | | | | |
| Coupling nut/screw | Brass with nickel plated | | | | | |
| Seal/O-ring | Epoxy resin / FKM | | | | | |
| Insulation resistance | ⩾100MΩ | | | | | |
| Contact resistance | ⩽5mΩ | | | | | |
| Earth tag/pin | Unavailable | | | | | |
| IP rating | IP67, IP68 in locked condition | | | | | |
| Mating endurance | >500 cycles | | | | | |
| Rated current | 4 A | | | 2A | 1.5A | |
| Rated voltage | 250V AC/DC | | 60V AC/DC | 30V AC/DC | 30V AC/DC | |
| Panel cut-out | Refer to page 416 | | | | | |
| PCB layout | Refer to page 415 | | | | | |

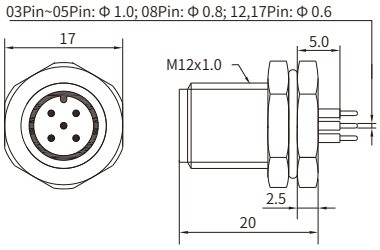
## Part Number

| Pins | Male | | Female | |
|---|---|---|---|---|
| | M16x1.5 | PG9 | M16x1.5 | PG9 |
| 3 | MB12MBAFF03ST-2 | MB12MBAFF03ST-3 | MB12FBAFF03ST-2 | MB12FBAFF03ST-3 |
| 4 | MB12MBAFF04ST-2 | MB12MBAFF04ST-3 | MB12FBAFF04ST-2 | MB12FBAFF04ST-3 |
| 5 | MB12MBAFF05ST-2 | MB12MBAFF05ST-3 | MB12FBAFF05ST-2 | MB12FBAFF05ST-3 |
| 8 | MB12MBAFF08ST-2 | MB12MBAFF08ST-3 | MB12FBAFF08ST-2 | MB12FBAFF08ST-3 |
| 12 | MB12MBAFF12ST-2 | MB12MBAFF12ST-3 | MB12FBAFF12ST-2 | MB12FBAFF12ST-3 |
| 17 | MB12MBAFF17ST-2 | MB12MBAFF17ST-3 | MB12FBAFF17ST-2 | MB12FBAFF17ST-3 |

# M12 A-coding (Sensor and Actuator)

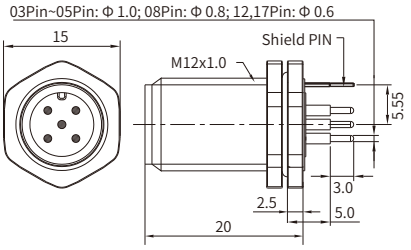
## M12 A-coding Straight Connector, Panel Mount, PCB Type, M12 thread Front fastened

Male Unshielded




CE RoHS IP68

Male Shielded




CE RoHS IP68

## Specifications

| Contacts | 3 | 4 | 5 | 8 | 12 | 17 |
|---|---|---|---|---|---|---|
| Certification | c UL us CYJV2(CYJV8).E321413 | | c UL us LISTED CYJV(CYJV7).E321413 | | c UL us LISTED CYJV(CYJV7).E321413 | |
| Pin layout(Male) | | | | | | |
| Standard | IEC 61076-2-101 | | | | | |
| Ambient temperature | -25°C ~ +90°C | | | | | |
| Connector insert | TPU | | | | | |
| Connector contacts | Brass with gold plated | | | | | |
| Coupling nut/screw | Brass with nickel plated | | | | | |
| Seal/O-ring | Epoxy resin / FKM | | | | | |
| Insulation resistance | ⩾100MΩ | | | | | |
| Contact resistance | ⩽5mΩ | | | | | |
| Earth tag/pin | Unavailable / Available | | | | | |
| IP rating | IP67, IP68 in locked condition | | | | | |
| Mating endurance | >500 cycles | | | | | |
| Rated current | 4 A | | | 2A | 1.5A | |
| Rated voltage | 250V AC/DC | | 60V AC/DC | 30V AC/DC | 30V AC/DC | |
| Panel cut-out | Refer to page 416 | | | | | |
| PCB layout | Refer to page 415 | | | | | |

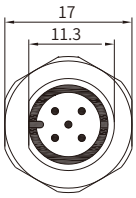
## Part Number

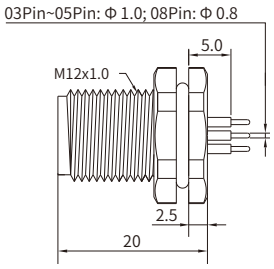
| Pins | Male | |
|---|---|---|
| | Unshielded | Shielded |
| 3 | MB12MBAFF03ST-0 | MB12MBSAFF03ST-0 |
| 4 | MB12MBAFF04ST-0 | MB12MBSAFF04ST-0 |
| 5 | MB12MBAFF05ST-0 | MB12MBSAFF05ST-0 |
| 8 | MB12MBAFF08ST-0 | MB12MBSAFF08ST-0 |
| 12 | MB12MBAFF12ST-0 | MB12MBSAFF12ST-0 |
| 17 | MB12MBAFF17ST-0 | MB12MBSAFF17ST-0 |

# M12 A-coding (Sensor and Actuator)

## M12 A-coding Straight Connector, Panel Mount, Plastic PCB Type, M12 thread Front fastened

Male




CE RoHS IP68

## Specifications

| Contacts | 4 | 5 | 8 |
|---|---|---|---|
| Pin layout(Male) | | | |
| Standard | IEC 61076-2-101 | | |
| Ambient temperature | -25°C ~ +90°C | | |
| Connector insert | PA+GF | | |
| Connector contacts | Brass with gold plated | | |
| Coupling nut/screw | PA+GF | | |
| Seal/O-ring | Epoxy resin / FKM | | |
| Insulation resistance | ⩾100MΩ | | |
| Contact resistance | ⩽5mΩ | | |
| Earth tag/pin | Unavailable | | |
| IP rating | IP67, IP68 in locked condition | | |
| Mating endurance | >500 cycles | | |
| Rated current | 4 A | | 2A |
| Rated voltage | 250V AC/DC | 60V AC/DC | 30V AC/DC |
| Panel cut-out | Refer to page 416 | | |
| PCB layout | Refer to page 415 | | |

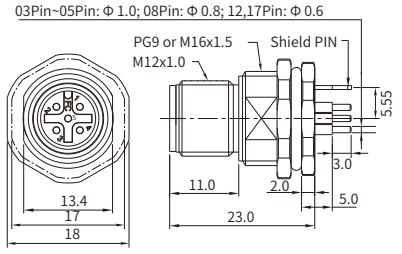
## Part Number

| Pins | Male |
|---|---|
| | M12x1.0 |
| 4 | MB12MBAFP04ST-0 |
| 5 | MB12MBBFP05ST-0 |
| 8 | MB12MBCFP08ST-0 |

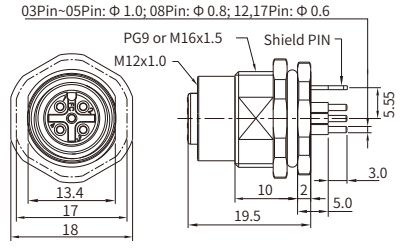
# M12 A-coding (Sensor and Actuator)

## M12 A-coding Straight Connector, Panel Mount, PCB Type, Front Fastened, With Earth Pin

Male




Female




## Specifications

| Contacts | 3 | 4 | 5 | 8 | 12 | 17 |
|---|---|---|---|---|---|---|
| Certification | CYJV2(CYJV8).E321413 | | CYJV(CYJV7).E321413 | | CYJV(CYJV7).E321413 | |
| Pin layout(Male) | | | | | | |
| Pin layout(Female) | | | | | | |

| | | | | | |
|---|---|---|---|---|---|
| Standard | IEC 61076-2-101 | | | | |
| Ambient temperature | -25°C ~ +90°C | | | | |
| Connector insert | PA+GF | | | | |
| Connector contacts | Brass with gold plated | | | | |
| Coupling nut/screw | Brass with nickel plated | | | | |
| Seal/O-ring | Epoxy resin / FKM | | | | |
| Insulation resistance | ⩾100MΩ | | | | |
| Contact resistance | ⩽5mΩ | | | | |
| Earth tag/pin | Available | | | | |
| IP rating | IP67, IP68 in locked condition | | | | |
| Mating endurance | >500 cycles | | | | |
| Rated current | 4 A | | | 2A | 1.5A |
| Rated voltage | 250V AC/DC | | 60V AC/DC | 30V AC/DC | 30V AC/DC |
| Panel cut-out | Refer to page 416 | | | | |
| PCB layout | Refer to page 415 | | | | |

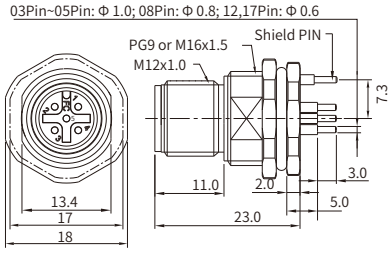
## Part Number

| Pins | Male | | Female | |
|---|---|---|---|---|
| | M16x1.5 | PG9 | M16x1.5 | PG9 |
| 3 | MB12MBSAFF03ST-2 | MB12MBSAFF03ST-3 | MB12FBSAFF03ST-2 | MB12FBSAFF03ST-3 |
| 4 | MB12MBSAFF04ST-2 | MB12MBSAFF04ST-3 | MB12FBSAFF04ST-2 | MB12FBSAFF04ST-3 |
| 5 | MB12MBSAFF05ST-2 | MB12MBSAFF05ST-3 | MB12FBSAFF05ST-2 | MB12FBSAFF05ST-3 |
| 8 | MB12MBSAFF08ST-2 | MB12MBSAFF08ST-3 | MB12FBSAFF08ST-2 | MB12FBSAFF08ST-3 |
| 12 | MB12MBSAFF12ST-2 | MB12MBSAFF12ST-3 | MB12FBSAFF12ST-2 | MB12FBSAFF12ST-3 |
| 17 | MB12MBSAFF17ST-2 | MB12MBSAFF17ST-3 | MB12FBSAFF17ST-2 | MB12FBSAFF17ST-3 |

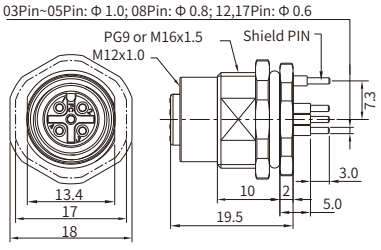
# M12 A-coding (Sensor and Actuator)

## M12 A-coding Straight Connector, Panel Mount, PCB Type, Front Fastened, With Circular Earth Pin

Male




Female




## Specifications

| Contacts | 3 | 4 | 5 | 8 | 12 | 17 |
|---|---|---|---|---|---|---|
| Certification | CYJV2(CYJV8).E321413 | | CYJV(CYJV7).E321413 | | CYJV(CYJV7).E321413 | |
| Pin layout(Male) | | | | | | |
| Pin layout(Female) | | | | | | |
| Standard | IEC 61076-2-101 | | | | | |
| Ambient temperature | -20°C ~ +90°C | | | | | |
| Connector insert | PA+GF | | | | | |
| Connector contacts | Brass with gold plated | | | | | |
| Coupling nut/screw | Brass with nickel plated | | | | | |
| Seal/O-ring | Epoxy resin / FKM | | | | | |
| Insulation resistance | ⩾100MΩ | | | | | |
| Contact resistance | ⩽5mΩ | | | | | |
| Earth tag/pin | Available | | | | | |
| IP rating | IP67, IP68 in locked condition | | | | | |
| Mating endurance | >500 cycles | | | | | |
| Rated current | 4 A | | | 2A | 1.5A | |
| Rated voltage | 250V AC/DC | | 60V AC/DC | 30V AC/DC | 30V AC/DC | |
| Panel cut-out | Refer to page 416 | | | | | |
| PCB layout | Refer to page 415 | | | | | |

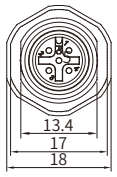
## Part Number

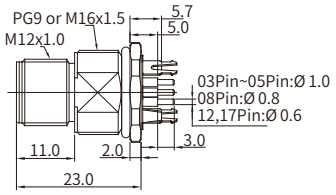
| Pins | Male | | Female | |
|---|---|---|---|---|
| | M16x1.5 | PG9 | M16x1.5 | PG9 |
| 3 | MB12MBSAFF03ST-2-s | MB12MBSAFF03ST-3-s | MB12FBSAFF03ST-2-s | MB12FBSAFF03ST-3-s |
| 4 | MB12MBSAFF04ST-2-s | MB12MBSAFF04ST-3-s | MB12FBSAFF04ST-2-s | MB12FBSAFF04ST-3-s |
| 5 | MB12MBSAFF05ST-2-s | MB12MBSAFF05ST-3-s | MB12FBSAFF05ST-2-s | MB12FBSAFF05ST-3-s |
| 8 | MB12MBSAFF08ST-2-s | MB12MBSAFF08ST-3-s | MB12FBSAFF08ST-2-s | MB12FBSAFF08ST-3-s |
| 12 | MB12MBSAFF12ST-2-s | MB12MBSAFF12ST-3-s | MB12FBSAFF12ST-2-s | MB12FBSAFF12ST-3-s |
| 17 | MB12MBSAFF17ST-2-s | MB12MBSAFF17ST-3-s | MB12FBSAFF17ST-2-s | MB12FBSAFF17ST-3-s |

# M12 A-coding (Sensor and Actuator)

## M12 A-coding Straight Connector, Panel Mount, PCB Type, Front Fastened, With Double Earth Pin

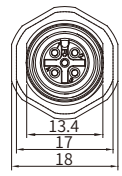
Male

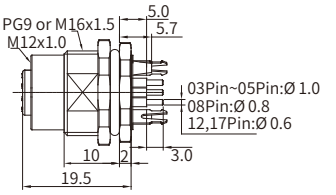



CE RoHS IP68

Female




CE RoHS IP68

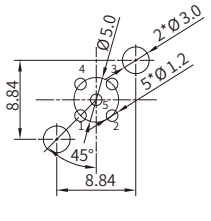
## Specifications

| Contacts | 3 | 4 | 5 | 8 | 12 | 17 |
|---|---|---|---|---|---|---|
| Certification | | cULus CYJV2(CYJV8).E321413 | | cULus CYJV(CYJV7).E321413 | | |
| Pin layout(Male) | | | | | | |
| Pin layout(Female) | | | | | | |
| Standard | IEC 61076-2-101 | | | | | |
| Ambient temperature | -25°C ~ +90°C | | | | | |
| Connector insert | PA+GF | | | | | |
| Connector contacts | Brass with gold plated | | | | | |
| Coupling nut/screw | Brass with nickel plated | | | | | |
| Seal/O-ring | Epoxy resin / FKM | | | | | |
| Insulation resistance | ⩾100MΩ | | | | | |
| Contact resistance | ⩽5mΩ | | | | | |
| Earth tag/pin | Available | | | | | |
| IP rating | IP67, IP68 in locked condition | | | | | |
| Mating endurance | >500 cycles | | | | | |
| Rated current | 4 A | | | 2A | 1.5A | |
| Rated voltage | 250V AC/DC | | 60V AC/DC | 30V AC/DC | 30V AC/DC | |

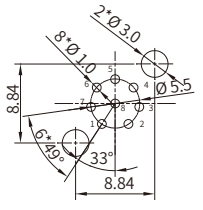
## Part Number

| Pins | Male | | Female | |
|---|---|---|---|---|
| | M16x1.5 | PG9 | M16x1.5 | PG9 |
| 3 | MB12MBSAFF03ST-2 | MB12MBSAFF03ST-3 | MB12FBSAFF03ST-2 | MB12FBSAFF03ST-3 |
| 4 | MB12MBSAFF04ST-2 | MB12MBSAFF04ST-3 | MB12FBSAFF04ST-2 | MB12FBSAFF04ST-3 |
| 5 | MB12MBSAFF05ST-2 | MB12MBSAFF05ST-3 | MB12FBSAFF05ST-2 | MB12FBSAFF05ST-3 |
| 8 | MB12MBSAFF08ST-2 | MB12MBSAFF08ST-3 | MB12FBSAFF08ST-2 | MB12FBSAFF08ST-3 |
| 12 | MB12MBSAFF12ST-2 | MB12MBSAFF12ST-3 | MB12FBSAFF12ST-2 | MB12FBSAFF12ST-3 |
| 17 | MB12MBSAFF17ST-2 | MB12MBSAFF17ST-3 | MB12FBSAFF17ST-2 | MB12FBSAFF17ST-3 |

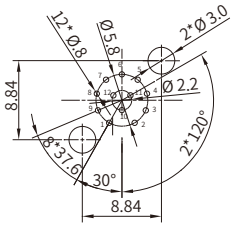
## PCB layout



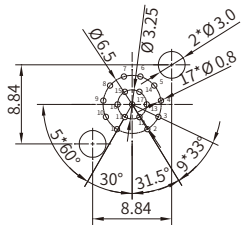

Male PIN OD:1.0
3P/4P/5P



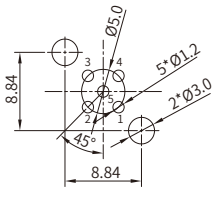

Male PIN OD:0.8
8P



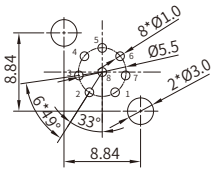

Male PIN OD:0.6
12P



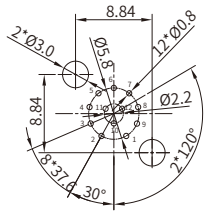

Male PIN OD:0.6
17P



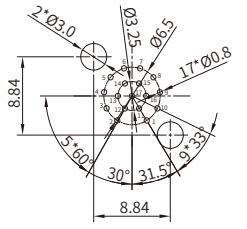

Female PIN OD:1.0
3P/4P/5P




Female PIN OD:0.8
8P




Female PIN OD:0.6
12P

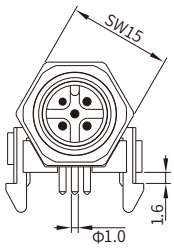


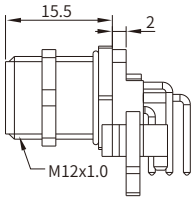

Female PIN OD:0.6
17P

# M12 A-coding (Sensor and Actuator)

## M12 A-coding Angled Connector, Panel Mount, PCB Type, Front fastened

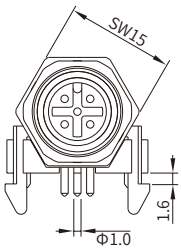
Male

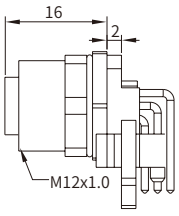



CE RoHS

Female




CE RoHS

## Specifications

| Contacts | 4 | 5 | 8 | 12 |
|---|---|---|---|---|
| Pin layout(Male) | | | | |
| Pin layout(Female) | | | | |
| Standard | IEC 61076-2-101 | | | |
| Ambient temperature | -25°C ~ +90°C | | | |
| Connector insert | PA+GF | | | |
| Connector contacts | Brass with gold plated | | | |
| Coupling nut/screw | Brass with nickel plated | | | |
| Seal/O-ring | FKM | | | |
| Insulation resistance | ⩾100MΩ | | | |
| Contact resistance | ⩽5mΩ | | | |
| Earth tag/pin | Unavailable/Available | | | |
| IP rating | IP67, IP68 in locked condition | | | |
| Mating endurance | >500 cycles | | | |
| Rated current | 4 A | | 2A | 1.5A |
| Rated voltage | 250V AC/DC | 60V AC/DC | 30V AC/DC | |
| Panel cut-out | Refer to page 416 | | | |
| PCB layout | Refer to page 416 | | | |

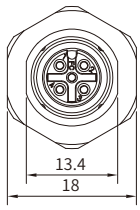
## Part Number

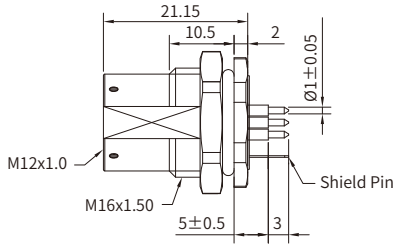
| Pins | Male | | Female | |
|---|---|---|---|---|
| | Unshielded | Shielded | Unshielded | Shielded |
| 4 | MB12MBAFF04RA-0 | MB12MBSAFF04RA-0 | MB12FBAFF04RA-0 | MB12FBSAFF04RA-0 |
| 5 | MB12MBAFF05RA-0 | MB12MBSAFF05RA-0 | MB12FBAFF05RA-0 | MB12FBSAFF05RA-0 |
| 8 | MB12MBAFF08RA-0 | MB12MBSAFF08RA-0 | MB12FBAFF08RA-0 | MB12FBSAFF08RA-0 |
| 12 | MB12MBAFF12RA-0 | MB12MBSAFF12RA-0 | MB12FBAFF12RA-0 | MB12FBSAFF12RA-0 |

# M12 A-coding (Sensor and Actuator)

## M12 A-coding Straight Connector, Panel Mount, Push-pull type, PCB, Front fastened, Shielded

Female




CE RoHS IP68

## Specifications

| Contacts | 4 | 5 |
|---|---|---|
| Pin layout(Female) | | |
| Ambient temperature | -25°C~+85°C | |
| Connector insert | PA+GF | |
| Connector contacts | Brass with gold plated | |
| Coupling nut/screw | Brass with nickel plated | |
| Seal/O-ring | FKM | |
| Insulation resistance | ⩾100MΩ | |
| Contact resistance | ⩽10mΩ | |
| Earth tag/pin | Available | |
| IP rating | IP67 in locked condition | |
| Mating endurance | >500 cycles | |
| Rated current | 4 A | |
| Rated voltage | 250V AC/DC | 60V AC/DC |
| Panel cut-out | Refer to page 416 | |
| PCB layout | Refer to page 415 | |

## Part Number

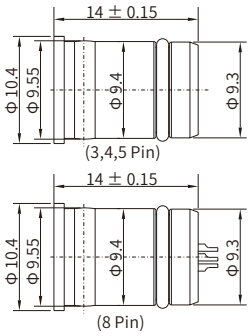
| Pins | Male |
|---|---|
| 4 | MB12FBPAPP04ST-2 |
| 5 | MB12FBPAPP05ST-2 |

# M12 A-coding (Sensor and Actuator)

## M12 A-coding Straight Connector, Plastic Housing with O-ring

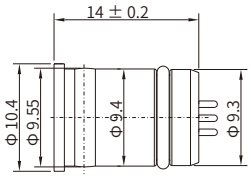
Male Solder

RoHS




Male PCB Type

RoHS




## Specifications

| Contacts | 3 | 4 | 5 | 8 |
|---|---|---|---|---|
| Pin layout(Male) | | | | |
| Standard | IEC 61076-2-101 | | | |
| Ambient temperature | -20°C ~ +90°C | | | |
| Connector insert | PA | | | |
| Connector contacts | Brass with gold plated | | | |
| Seal/O-ring | Epoxy resin / FKM | | | |
| Insulation resistance | ⩾100MΩ | | | |
| Contact resistance | ⩽5mΩ | | | |
| Earth tag/pin | Unavailable | | | |
| IP rating | IP67, IP68 in locked condition | | | |
| Mating endurance | >500 cycles | | | |
| Rated current | 4 A | | | 2A |
| Rated voltage | 250V AC/DC | | 60V AC/DC | 30V AC/DC |

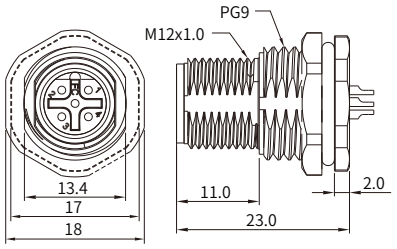
## Part Number

| Pins | Male | |
|---|---|---|
| | Solder | PCB Type |
| 3 | M12H-MSA03 | M12H-MBA03 |
| 4 | M12H-MSA04 | M12H-MBA04 |
| 5 | M12H-MSA05 | M12H-MBA05 |
| 8 | M12H-MSA08 | M12H-MBA08 |

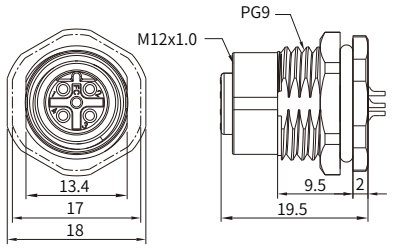
# M12 B-coding (Profibus)

## M12 B-coding Straight Connector, Panel Mount, Die-cast Screw, Solder, Front fastened

Male




Female




## Specifications

| Contacts | 3 | 4 | 5 |
|---|---|---|---|
| Certification | CYJV2(CYJV8).E321413 | CYJV(CYJV7).E321413 | |
| Pin layout(Male) | | | |
| Pin layout(Female) | | | |
| Standard | IEC 61076-2-101 | | |
| Ambient temperature | -15°C~+85°C (flexible installation), -30°C~+85°C (fixed installation) | | |
| Customized temperature | -25°C ~ +85°C (flexible installation), -40°C ~ +85°C (fixed installation) | | |
| Connector insert | PA | | |
| Connector contacts | Brass with gold plated | | |
| Coupling nut/screw | Zinc alloy with nickel plated | | |
| Seal/O-ring | Epoxy resin / FKM | | |
| Insulation resistance | ⩾100MΩ | | |
| Contact resistance | ⩽5mΩ | | |
| Earth tag/pin | Unavailable | | |
| IP rating | IP67, IP68 in locked condition | | |
| Mating endurance | >500 cycles | | |
| Rated current | 4 A | | |
| Rated voltage | 250V AC/DC | | 60V AC/DC |
| Wire gauge | 0.34mm$^2$ (AWG22) | | |
| Panel cut-out | Refer to page 416 | | |

## Part Number

| Pins | Cable length | Male PG9 | Female PG9 |
|---|---|---|---|
| 3 | 0.1m | MB12MSBFHD03ST-33401 | MB12FSBFHD03ST-33401 |
| | 0.3m | MB12MSBFHD03ST-33403 | MB12FSBFHD03ST-33403 |
| 4 | 0.1m | MB12MSBFHD04ST-33401 | MB12FSBFHD04ST-33401 |
| | 0.3m | MB12MSBFHD04ST-33403 | MB12FSBFHD04ST-33403 |
| 5 | 0.1m | MB12MSBFHD05ST-33401 | MB12FSBFHD05ST-33401 |
| | 0.3m | MB12MSBFHD05ST-33403 | MB12FSBFHD05ST-33403 |

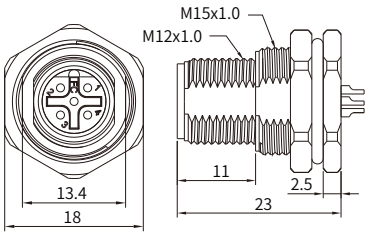
## Default wire colors

| Pin No. | | | Profibus |
|---|---|---|---|
| Pin 1 | BN | BN | BN |
| Pin 2 | | WH | WH GN |
| Pin 3 | BU | BU | BU |
| Pin 4 | BK | BK | BK RD |
| Pin 5 | | | GY |

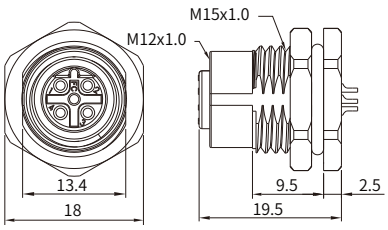
# M12 B-coding (Profibus)

## M12 B-coding Straight Connector, Panel Mount, Plastic Solder, Front fastened

Male




Female




## Specifications

| Contacts | 3 | 4 | 5 |
|---|---|---|---|
| Pin layout(Male) | | | |
| Pin layout(Female) | | | |
| Standard | IEC 61076-2-101 | | |
| Ambient temperature | -15°C~+85°C (flexible installation), -30°C~+85°C (fixed installation) | | |
| Customized temperature | -25°C ~ +85°C (flexible installation), -40°C ~ +85°C (fixed installation) | | |
| Connector insert | PA | | |
| Connector contacts | Brass with gold plated | | |
| Coupling nut/screw | PA+GF | | |
| Seal/O-ring | Epoxy resin / FKM | | |
| Insulation resistance | ⩾100MΩ | | |
| Contact resistance | ⩽5mΩ | | |
| Earth tag/pin | Unavailable | | |
| IP rating | IP67, IP68 in locked condition | | |
| Mating endurance | >500 cycles | | |
| Rated current | 4 A | | |
| Rated voltage | 250V AC/DC | | 60V AC/DC |
| Wire gauge | 0.34mm$^2$(AWG22) | | |
| Panel cut-out | Refer to page 416 | | |

## Part Number

| Pins | Cable length | Male M15x1.0 | Female M15x1.0 |
|---|---|---|---|
| 3 | 0.1m | MB12MSBFP03ST-11034 | MB12FSBFP03ST-11034 |
| | 0.3m | MB12MSBFP03ST-13034 | MB12FSBFP03ST-13034 |
| 4 | 0.1m | MB12MSBFP04ST-11034 | MB12FSBFP04ST-11034 |
| | 0.3m | MB12MSBFP04ST-13034 | MB12FSBFP04ST-13034 |
| 5 | 0.1m | MB12MSBFP05ST-11034 | MB12FSBFP05ST-11034 |
| | 0.3m | MB12MSBFP05ST-13034 | MB12FSBFP05ST-13034 |

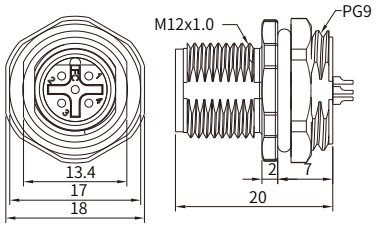
## Default wire colors

| Pin No. | | | | Profibus |
|---|---|---|---|---|
| Pin 1 | BN | BN | BN | |
| Pin 2 | | WH | WH | GN |
| Pin 3 | BU | BU | BU | |
| Pin 4 | BK | BK | BK | RD |
| Pin 5 | | | GY | |

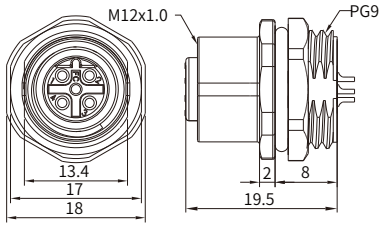
# M12 B-coding (Profibus)

## M12 B-coding Straight Connector, Panel Mount, Die-cast Screw, Solder, Rear fastened

Male




Female




## Specifications

| Contacts | 3 | 4 | 5 |
|---|---|---|---|
| Certification | CYJV2(CYJV8).E321413 | CYJV(CYJV7).E321413 | |
| Pin layout(Male) | | | |
| Pin layout(Female) | | | |
| Standard | IEC 61076-2-101 | | |
| Ambient temperature | -15°C~+85°C (flexible installation), -30°C~+85°C (fixed installation) | | |
| Customized temperature | -25°C ~ +85°C (flexible installation), -40°C ~ +85°C (fixed installation) | | |
| Connector insert | PA | | |
| Connector contacts | Brass with gold plated | | |
| Coupling nut/screw | Zinc alloy with nickel plated | | |
| Seal/O-ring | Epoxy resin / FKM | | |
| Insulation resistance | ⩾100MΩ | | |
| Contact resistance | ⩽5mΩ | | |
| Earth tag/pin | Unavailable | | |
| IP rating | IP67, IP68 in locked condition | | |
| Mating endurance | >500 cycles | | |
| Rated current | 4 A | | |
| Rated voltage | 250V AC/DC | | 60V AC/DC |
| Wire gauge | 0.34mm² (AWG22) | | |
| Panel cut-out | Refer to page 416 | | |

## Part Number

| Pins | Cable length | Male PG9 | Female PG9 |
|---|---|---|---|
| 3 | 0.1m | MB12MSBRHD03ST-33401 | MB12FSBRHD03ST-33401 |
| | 0.3m | MB12MSBRHD03ST-33403 | MB12FSBRHD03ST-33403 |
| 4 | 0.1m | MB12MSBRHD04ST-33401 | MB12FSBRHD04ST-33401 |
| | 0.3m | MB12MSBRHD04ST-33403 | MB12FSBRHD04ST-33403 |
| 5 | 0.1m | MB12MSBRHD05ST-33401 | MB12FSBRHD05ST-33401 |
| | 0.3m | MB12MSBRHD05ST-33403 | MB12FSBRHD05ST-33403 |

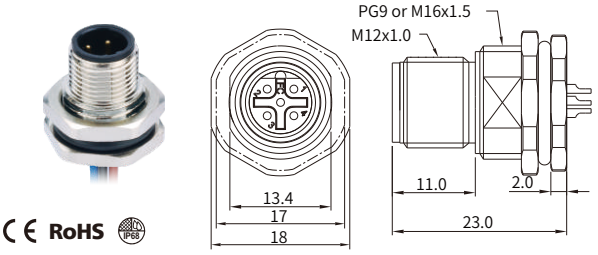
## Default wire colors

| Pin No. | | | | Profibus |
|---|---|---|---|---|
| Pin 1 | BN | BN | BN | |
| Pin 2 | | WH | WH | GN |
| Pin 3 | BU | BU | BU | |
| Pin 4 | BK | BK | BK | RD |
| Pin 5 | | | GY | |

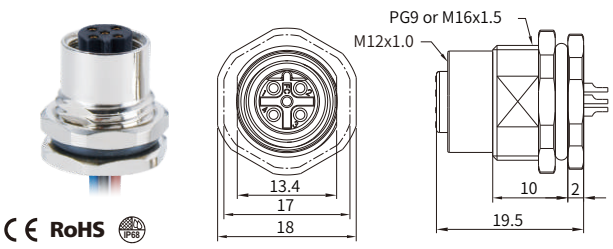
# M12 B-coding (Profibus)

## M12 B-coding Straight Connector, Panel Mount, Solder, Front fastened

Male




Female




## Specifications

| Contacts | 3 | 4 | 5 |
|---|---|---|---|
| Certification | CYJV2(CYJV8).E321413 | CYJV(CYJV7).E321413 | |
| Pin layout(Male) | | | |
| Pin layout(Female) | | | |
| Standard | IEC 61076-2-101 | | |
| Ambient temperature | -15°C~+85°C (flexible installation), -30°C~+85°C (fixed installation) | | |
| Customized temperature | -25°C ~ +85°C (flexible installation), -40°C ~ +85°C (fixed installation) | | |
| Connector insert | TPU | | |
| Connector contacts | Brass with gold plated | | |
| Coupling nut/screw | Brass with nickel plated | | |
| Seal/O-ring | Epoxy resin / FKM | | |
| Insulation resistance | ⩾100MΩ | | |
| Contact resistance | ⩽5mΩ | | |
| Earth tag/pin | Unavailable | | |
| IP rating | IP67, IP68 in locked condition | | |
| Mating endurance | >500 cycles | | |
| Rated current | 4 A | | |
| Rated voltage | 250V AC/DC | | 60V AC/DC |
| Wire gauge | 0.34mm$^2$(AWG22) | | |
| Panel cut-out | Refer to page 416 | | |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | M16x1.5 | PG9 | M16x1.5 | PG9 |
| 3 | 0.1m | MB12MSBFF03ST-23401 | MB12MSBFF03ST-33401 | MB12FSBFF03ST-23401 | MB12FSBFF03ST-33401 |
| | 0.3m | MB12MSBFF03ST-23403 | MB12MSBFF03ST-33403 | MB12FSBFF03ST-23403 | MB12FSBFF03ST-33403 |
| 4 | 0.1m | MB12MSBFF04ST-23401 | MB12MSBFF04ST-33401 | MB12FSBFF04ST-23401 | MB12FSBFF04ST-33401 |
| | 0.3m | MB12MSBFF04ST-23403 | MB12MSBFF04ST-33403 | MB12FSBFF04ST-23403 | MB12FSBFF04ST-33403 |
| 5 | 0.1m | MB12MSBFF05ST-23401 | MB12MSBFF05ST-33401 | MB12FSBFF05ST-23401 | MB12FSBFF05ST-33401 |
| | 0.3m | MB12MSBFF05ST-23403 | MB12MSBFF05ST-33403 | MB12FSBFF05ST-23403 | MB12FSBFF05ST-33403 |

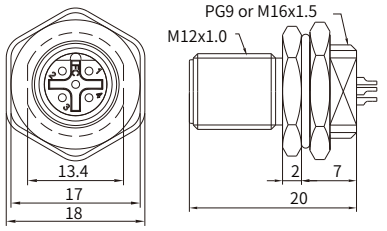
## Default wire colors

| Pin No. | | | Profibus |
|---|---|---|---|
| Pin 1 | BN | BN | BN |
| Pin 2 | | WH | WH GN |
| Pin 3 | BU | BU | BU |
| Pin 4 | BK | BK | BK RD |
| Pin 5 | | | GY |

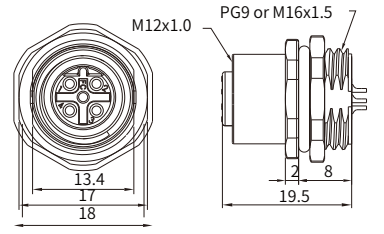
# M12 B-coding (Profibus)

## M12 B-coding Straight Connector, Panel Mount, Solder, Rear fastened

Male




Female




## Specifications

| Contacts | 3 | 4 | 5 |
|---|---|---|---|
| Certification | CYJV2(CYJV8).E321413 | CYJV(CYJV7).E321413 | |
| Pin layout(Male) | | | |
| Pin layout(Female) | | | |
| Standard | IEC 61076-2-101 | | |
| Ambient temperature | -15°C~+85°C (flexible installation), -30°C~+85°C (fixed installation) | | |
| Customized temperature | -25°C ~ +85°C (flexible installation), -40°C ~ +85°C (fixed installation) | | |
| Connector insert | TPU | | |
| Connector contacts | Brass with gold plated | | |
| Coupling nut/screw | Brass with nickel plated | | |
| Seal/O-ring | Epoxy resin / FKM | | |
| Insulation resistance | ⩾100MΩ | | |
| Contact resistance | ⩽5mΩ | | |
| Earth tag/pin | Unavailable | | |
| IP rating | IP67, IP68 in locked condition | | |
| Mating endurance | >500 cycles | | |
| Rated current | 4 A | | |
| Rated voltage | 250V AC/DC | | 60V AC/DC |
| Wire gauge | 0.34mm$^2$(AWG22) | | |
| Panel cut-out | Refer to page 416 | | |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | M16x1.5 | PG9 | M16x1.5 | PG9 |
| 3 | 0.1m | MB12MSBRF03ST-23401 | MB12MSBRF03ST-33401 | MB12FSBRF03ST-23401 | MB12FSBRF03ST-33401 |
| | 0.3m | MB12MSBRF03ST-23403 | MB12MSBRF03ST-33403 | MB12FSBRF03ST-23403 | MB12FSBRF03ST-33403 |
| 4 | 0.1m | MB12MSBRF04ST-23401 | MB12MSBRF04ST-33401 | MB12FSBRF04ST-23401 | MB12FSBRF04ST-33401 |
| | 0.3m | MB12MSBRF04ST-23403 | MB12MSBRF04ST-33403 | MB12FSBRF04ST-23403 | MB12FSBRF04ST-33403 |
| 5 | 0.1m | MB12MSBRF05ST-23401 | MB12MSBRF05ST-33401 | MB12FSBRF05ST-23401 | MB12FSBRF05ST-33401 |
| | 0.3m | MB12MSBRF05ST-23403 | MB12MSBRF05ST-33403 | MB12FSBRF05ST-23403 | MB12FSBRF05ST-33403 |

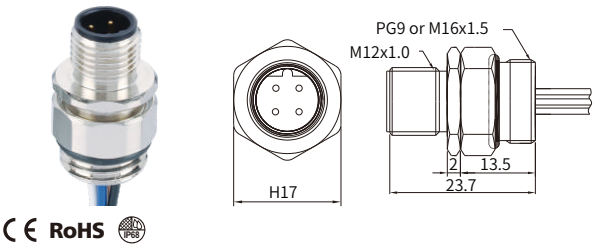
## Default wire colors

| Pin No. | | | | Profibus |
|---|---|---|---|---|
| Pin 1 | BN | BN | BN | |
| Pin 2 | | WH | WH | GN |
| Pin 3 | BU | BU | BU | |
| Pin 4 | BK | BK | BK | RD |
| Pin 5 | | | GY | |

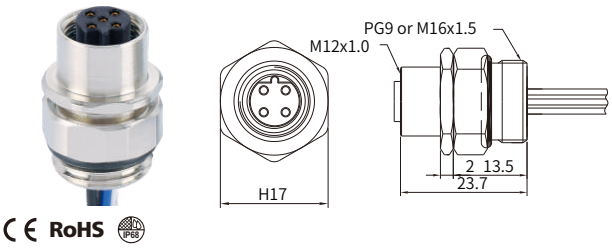
# M12 B-coding (Profibus)

## M12 B-coding Straight Connector, Panel Mount, Solder, Rear fastened, Adjustable Nut

Male




Female




## Specifications

| Contacts | 3 | 4 | 5 |
|---|---|---|---|
| Certification | CYJV2(CYJV8).E321413 | CYJV(CYJV7).E321413 | |
| Pin layout(Male) | | | |
| Pin layout(Female) | | | |
| Standard | IEC 61076-2-101 | | |
| Ambient temperature | -15°C~+85°C (flexible installation), -30°C~+85°C (fixed installation) | | |
| Customized temperature | -25°C ~ +85°C (flexible installation), -40°C ~ +85°C (fixed installation) | | |
| Connector insert | TPU | | |
| Connector contacts | Brass with gold plated | | |
| Coupling nut/screw | Brass with nickel plated | | |
| Seal/O-ring | Epoxy resin / FKM | | |
| Insulation resistance | ⩾100MΩ | | |
| Contact resistance | ⩽5mΩ | | |
| Earth tag/pin | Unavailable | | |
| IP rating | IP67, IP68 in locked condition | | |
| Mating endurance | >500 cycles | | |
| Rated current | 4 A | | |
| Rated voltage | 250V AC/DC | | 60V AC/DC |
| Wire gauge | 0.34mm$^2$(AWG22) | | |
| Panel cut-out | Refer to page 416 | | |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | M16x1.5 | PG9 | M16x1.5 | PG9 |
| 3 | 0.1m | MB12MSBRF03ST-23401 | MB12MSBRF03ST-33401 | MB12FSBRF03ST-23401 | MB12FSBRF03ST-33401 |
| | 0.3m | MB12MSBRF03ST-23403 | MB12MSBRF03ST-33403 | MB12FSBRF03ST-23403 | MB12FSBRF03ST-33403 |
| 4 | 0.1m | MB12MSBRF04ST-23401 | MB12MSBRF04ST-33401 | MB12FSBRF04ST-23401 | MB12FSBRF04ST-33401 |
| | 0.3m | MB12MSBRF04ST-23403 | MB12MSBRF04ST-33403 | MB12FSBRF04ST-23403 | MB12FSBRF04ST-33403 |
| 5 | 0.1m | MB12MSBRF05ST-23401 | MB12MSBRF05ST-33401 | MB12FSBRF05ST-23401 | MB12FSBRF05ST-33401 |
| | 0.3m | MB12MSBRF05ST-23403 | MB12MSBRF05ST-33403 | MB12FSBRF05ST-23403 | MB12FSBRF05ST-33403 |

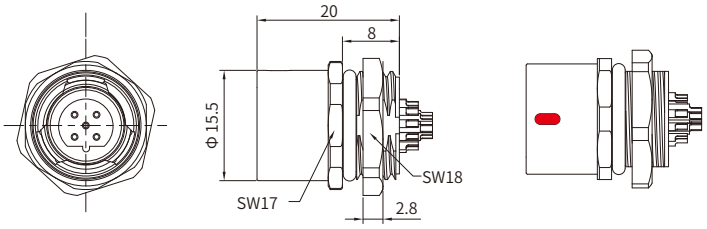
## Default wire colors

| Pin No. | | | | Profibus |
|---|---|---|---|---|
| Pin 1 | BN | BN | BN | |
| Pin 2 | | WH | WH | GN |
| Pin 3 | BU | BU | BU | |
| Pin 4 | BK | BK | BK | RD |
| Pin 5 | | | GY | |

# M12 B-coding (Profibus)

## M12 B-coding Push-Pull Female Straight Panel Mount, Rear fastened, Shielded

Female




RoHS

## Specifications

| Contacts | 3 | 4 | 5 |
|---|---|---|---|
| Pin layout(Female) | | | |
| Standard | IEC 61076-2-012-2020 | | |
| Ambient temperature | -25 °C ~ +85°C | | |
| Insulator | PA | | |
| Connector contacts | Brass with gold plated | | |
| Out shell | Brass with Black nickel plated | | |
| Insulator resistance | ⩾100MΩ | | |
| IP rating | IP 67(Mated) | | |
| Shielding effciency | at 10MHz>75dB/at 1GHz>40dB | | |
| Salt spray corrosion test | >96h | | |
| Endurance | 500 cycles | | |
| Rated current | 4 A | | |
| Voltage | 250V AC/DC | | 60V AC/DC |
| Wire gauge / size | 0.34mm$^2$(AWG22) | | |
| Panel cut-out | Refer to page 416 | | |

## Part Number

| Pins | Cable length | Female |
|---|---|---|
| 3 | 0.1m | MB12FSPBPP03ST-2-33401 |
| | 0.3m | MB12FSPBPP03ST-2-33403 |
| 4 | 0.1m | MB12FSPBPP04ST-2-33401 |
| | 0.3m | MB12FSPBPP04ST-2-33403 |
| 5 | 0.1m | MB12FSPBPP05ST-2-33401 |
| | 0.3m | MB12FSPBPP05ST-2-33403 |

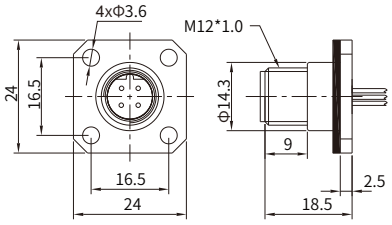
## Default wire colors

| Pin No. | | | | Profibus |
|---|---|---|---|---|
| Pin 1 | BN | BN | BN | |
| Pin 2 | | WH | WH | GN |
| Pin 3 | BU | BU | BU | |
| Pin 4 | BK | BK | BK | RD |
| Pin 5 | | | GY | |

# M12 B-coding (Profibus)

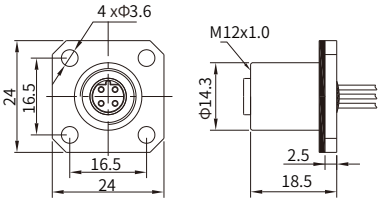
## M12 B-coding Straight Connector, Panel Mount, Solder, with Flange

Male




CE RoHS

Female




CE RoHS

## Specifications

| Contacts | 3 | 4 | 5 |
|---|---|---|---|
| Pin layout(Male) | | | |
| Pin layout(Female) | | | |
| Standard | IEC 61076-2-101 | | |
| Ambient temperature | -15°C~+85°C (flexible installation), -30°C~+85°C (fixed installation) | | |
| Customized temperature | -25°C ~ +85°C (flexible installation), -40°C ~ +85°C (fixed installation) | | |
| Connector insert | TPU | | |
| Connector contacts | Brass with gold plated | | |
| Coupling nut/screw | Brass with nickel plated | | |
| Seal/O-ring | Epoxy resin / FKM | | |
| Insulation resistance | ⩾100MΩ | | |
| Contact resistance | ⩽5mΩ | | |
| Earth tag/pin | Unavailable | | |
| IP rating | IP67, IP68 in locked condition | | |
| Mating endurance | >500 cycles | | |
| Rated current | 4 A | | |
| Rated voltage | 250V AC/DC | | 60V AC/DC |
| Wire gauge | 0.34mm$^2$(AWG22) | | |

## Part Number

| Pins | Cable length | Male | Female |
|---|---|---|---|
| 3 | 0.1m | MB12MSBFLF03ST-3401 | MB12FSBFLF03ST-3401 |
| | 0.3m | MB12MSBFLF03ST-3403 | MB12FSBFLF03ST-3403 |
| 4 | 0.1m | MB12MSBFLF04ST-3401 | MB12FSBFLF04ST-3401 |
| | 0.3m | MB12MSBFLF04ST-3403 | MB12FSBFLF04ST-3403 |
| 5 | 0.1m | MB12MSBFLF05ST-3401 | MB12FSBFLF05ST-3401 |
| | 0.3m | MB12MSBFLF05ST-3403 | MB12FSBFLF05ST-3403 |

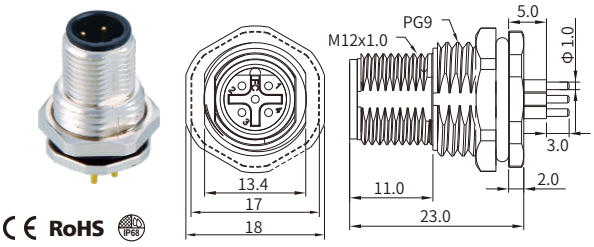
## Default wire colors

| Pin No. | | | | Profibus |
|---|---|---|---|---|
| Pin 1 | BN | BN | BN | |
| Pin 2 | | WH | WH | GN |
| Pin 3 | BU | BU | BU | |
| Pin 4 | BK | BK | BK | RD |
| Pin 5 | | | GY | |

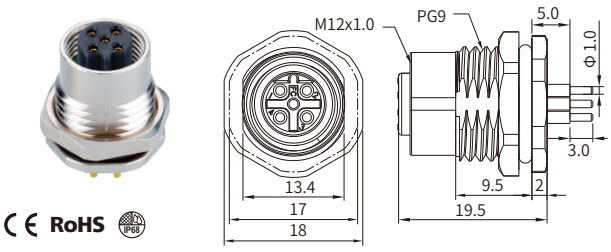
# M12 B-coding (Profibus)

## M12 B-coding Straight Connector, Panel Mount, Die-cast Screw, PCB Type, Front fastened

Male




Female




## Specifications

| Contacts | 3 | 4 | 5 |
|---|---|---|---|
| Certification | CYJV2(CYJV8).E321413 | CYJV(CYJV7).E321413 | |
| Pin layout(Male) | | | |
| Pin layout(Female) | | | |
| Standard | IEC 61076-2-101 | | |
| Ambient temperature | -25°C ~ +90°C | | |
| Connector insert | PA | | |
| Connector contacts | Brass with gold plated | | |
| Coupling nut/screw | Zinc alloy with nickel plated | | |
| Seal/O-ring | Epoxy resin / FKM | | |
| Insulation resistance | ⩾100MΩ | | |
| Contact resistance | ⩽5mΩ | | |
| Earth tag/pin | Unavailable | | |
| IP rating | IP67, IP68 in locked condition | | |
| Mating endurance | >500 cycles | | |
| Rated current | 4 A | | |
| Rated voltage | 250V AC/DC | | 60V AC/DC |
| Panel cut-out | Refer to page 416 | | |
| PCB layout | Refer to page 415 | | |

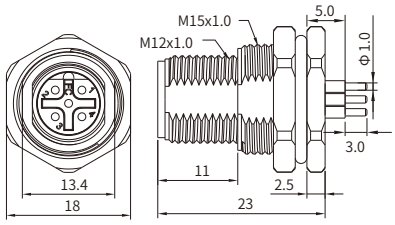
## Part Number

| Pins | Male | Female |
|---|---|---|
| | PG9 | PG9 |
| 3 | MB12MBBFHD03ST-3 | MB12FBBFHD03ST-3 |
| 4 | MB12MBBFHD04ST-3 | MB12FBBFHD04ST-3 |
| 5 | MB12MBBFHD05ST-3 | MB12FBBFHD05ST-3 |

# M12 B-coding (Profibus)

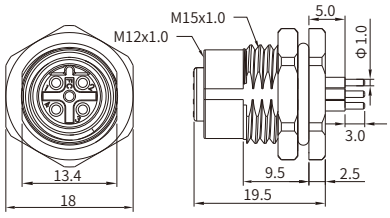
## M12 B-coding Straight Connector, Panel Mount, Plastic PCB Type, Front fastened

Male




CE RoHS IP68

Female




CE RoHS IP68

## Specifications

| Contacts | 3 | 4 | 5 |
|---|---|---|---|
| Pin layout(Male) | | | |
| Pin layout(Female) | | | |
| Standard | IEC 61076-2-101 | | |
| Ambient temperature | -25°C ~ +90°C | | |
| Connector insert | PA | | |
| Connector contacts | Brass with gold plated | | |
| Coupling nut/screw | PA+GF | | |
| Seal/O-ring | Epoxy resin / FKM | | |
| Insulation resistance | ⩾100MΩ | | |
| Contact resistance | ⩽5mΩ | | |
| Earth tag/pin | Unavailable | | |
| IP rating | IP67, IP68 in locked condition | | |
| Mating endurance | >500 cycles | | |
| Rated current | 4 A | | |
| Rated voltage | 250V AC/DC | | 60V AC/DC |
| Panel cut-out | Refer to page 416 | | |
| PCB layout | Refer to page 415 | | |

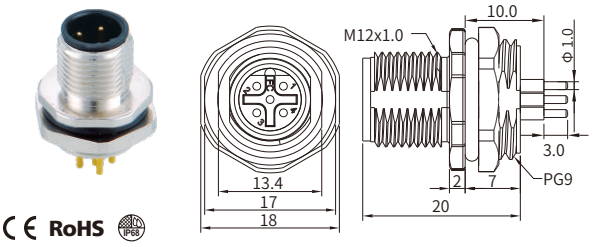
## Part Number

| Pins | Male | Female |
|---|---|---|
| | PG9 | PG9 |
| 3 | MB12MBBFP03ST-1 | MB12FBBFP03ST-1 |
| 4 | MB12MBBFP04ST-1 | MB12FBBFP04ST-1 |
| 5 | MB12MBBFP05ST-1 | MB12FBBFP05ST-1 |

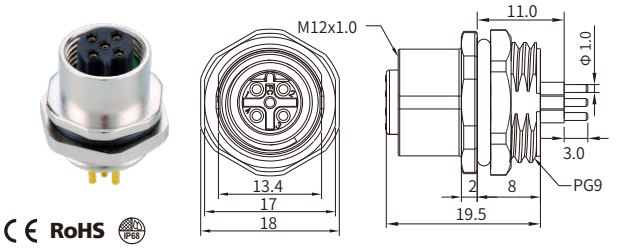
# M12 B-coding (Profibus)

## M12 B-coding Straight Connector, Panel Mount, Die-cast Screw, PCB Type, Rear fastened

Male




Female




## Specifications

| Contacts | 3 | 4 | 5 |
|---|---|---|---|
| Certification | CYJV2(CYJV8).E321413 | CYJV(CYJV7).E321413 | |
| Pin layout(Male) | | | |
| Pin layout(Female) | | | |
| Standard | IEC 61076-2-101 | | |
| Ambient temperature | -25°C ~ +90°C | | |
| Connector insert | PA | | |
| Connector contacts | Brass with gold plated | | |
| Coupling nut/screw | Zinc alloy with nickel plated | | |
| Seal/O-ring | Epoxy resin / FKM | | |
| Insulation resistance | ⩾100MΩ | | |
| Contact resistance | ⩽5mΩ | | |
| Earth tag/pin | Unavailable | | |
| IP rating | IP67, IP68 in locked condition | | |
| Mating endurance | >500 cycles | | |
| Rated current | 4 A | | |
| Rated voltage | 250V AC/DC | | 60V AC/DC |
| Panel cut-out | Refer to page 416 | | |
| PCB layout | Refer to page 415 | | |

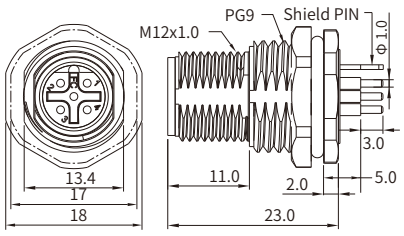
## Part Number

| Pins | Male | Female |
|---|---|---|
| | PG9 | PG9 |
| 3 | MB12MBBRHD03ST-3 | MB12FBBRHD03ST-3 |
| 4 | MB12MBBRHD04ST-3 | MB12FBBRHD04ST-3 |
| 5 | MB12MBBRHD05ST-3 | MB12FBBRHD05ST-3 |
| 8 | MB12MBBRHD08ST-3 | MB12FBBRHD08ST-3 |

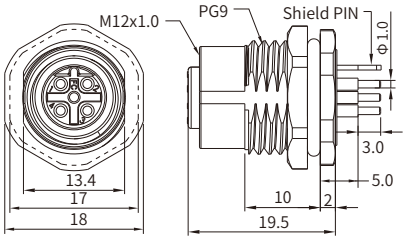
# M12 B-coding (Profibus)

## M12 B-coding Straight Connector, Panel, Die-cast Screw, PCB Type, Front fastened, With Earth Pin

Male




Female




## Specifications

| Contacts | 3 | 4 | 5 |
|---|---|---|---|
| Certification | CYJV2(CYJV8).E321413 | CYJV(CYJV7).E321413 | |
| Pin layout(Male) | | | |
| Pin layout(Female) | | | |
| Standard | IEC 61076-2-101 | | |
| Ambient temperature | -25°C ~ +90°C | | |
| Connector insert | PA | | |
| Connector contacts | Brass with gold plated | | |
| Coupling nut/screw | Zinc alloy with nickel plated | | |
| Seal/O-ring | Epoxy resin / FKM | | |
| Insulation resistance | ⩾100MΩ | | |
| Contact resistance | ⩽5mΩ | | |
| Earth tag/pin | Available | | |
| IP rating | IP67, IP68 in locked condition | | |
| Mating endurance | >500 cycles | | |
| Rated current | 4 A | | |
| Rated voltage | 250V AC/DC | | 60V AC/DC |
| Panel cut-out | Refer to page 416 | | |
| PCB layout | Refer to page 415 | | |

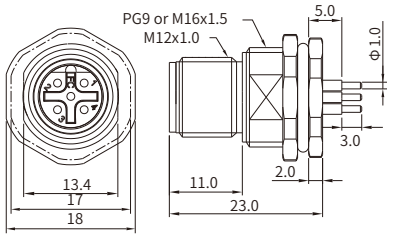
## Part Number

| Pins | Male | Female |
|---|---|---|
| | PG9 | PG9 |
| 3 | MB12MBSBFHD03ST-3 | MB12FBSBFHD03ST-3 |
| 4 | MB12MBSBFHD04ST-3 | MB12FBSBFHD04ST-3 |
| 5 | MB12MBSBFHD05ST-3 | MB12FBSBFHD05ST-3 |

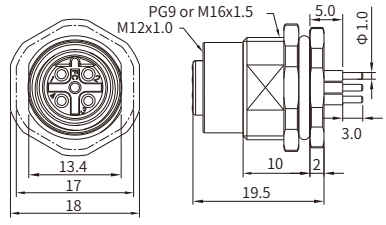
# M12 B-coding (Profibus)

## M12 B-coding Straight Connector, Panel Mount, PCB Type, Front fastened

Male




Female




## Specifications

| Contacts | 3 | 4 | 5 |
|---|---|---|---|
| Certification | cULus CYJV2(CYJV8).E321413 | cULus LISTED CYJV(CYJV7).E321413 | |
| Pin layout(Male) | | | |
| Pin layout(Female) | | | |
| Standard | IEC 61076-2-101 | | |
| Ambient temperature | -25°C ~ +90°C | | |
| Connector insert | TPU | | |
| Connector contacts | Brass with gold plated | | |
| Coupling nut/screw | Brass with nickel plated | | |
| Seal/O-ring | Epoxy resin / FKM | | |
| Insulation resistance | ⩾100MΩ | | |
| Contact resistance | ⩽5mΩ | | |
| Earth tag/pin | Unavailable | | |
| IP rating | IP67, IP68 in locked condition | | |
| Mating endurance | >500 cycles | | |
| Rated current | 4 A | | |
| Rated voltage | 250V AC/DC | | 60V AC/DC |
| Panel cut-out | Refer to page 416 | | |
| PCB layout | Refer to page 415 | | |

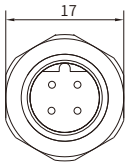
## Part Number

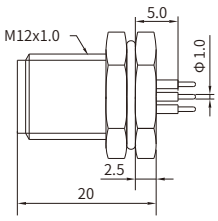
| Pins | Male | | Female | |
|---|---|---|---|---|
| | M16x1.5 | PG9 | M16x1.5 | PG9 |
| 3 | MB12MBBFF03ST-2 | MB12MBBFF03ST-3 | MB12FBBFF03ST-2 | MB12FBBFF03ST-3 |
| 4 | MB12MBBFF04ST-2 | MB12MBBFF04ST-3 | MB12FBBFF04ST-2 | MB12FBBFF04ST-3 |
| 5 | MB12MBBFF05ST-2 | MB12MBBFF05ST-3 | MB12FBBFF05ST-2 | MB12FBBFF05ST-3 |

# M12 B-coding (Profibus)

## M12 B-coding Straight Connector, Panel Mount, PCB Type, M12 thread Front fastened

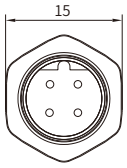
Male Unshielded

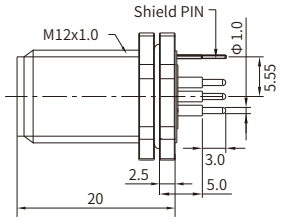



CE RoHS

Male Shielded




CE RoHS

## Specifications

| Contacts | 3 | 4 | 5 |
|---|---|---|---|
| Certification | c UL us CYJV2(CYJV8).E321413 | c UL us CYJV(CYJV7).E321413 | |
| Pin layout(Male) | | | |
| Standard | IEC 61076-2-101 | | |
| Ambient temperature | -25°C ~ +90°C | | |
| Connector insert | TPU | | |
| Connector contacts | Brass with gold plated | | |
| Coupling nut/screw | Brass with nickel plated | | |
| Seal/O-ring | Epoxy resin / FKM | | |
| Insulation resistance | ⩾100MΩ | | |
| Contact resistance | ⩽5mΩ | | |
| Earth tag/pin | Unavailable / Available | | |
| IP rating | IP67, IP68 in locked condition | | |
| Mating endurance | >500 cycles | | |
| Rated current | 4 A | | |
| Rated voltage | 250V AC/DC | | 60V AC/DC |
| Panel cut-out | Refer to page 416 | | |
| PCB layout | Refer to page 415 | | |

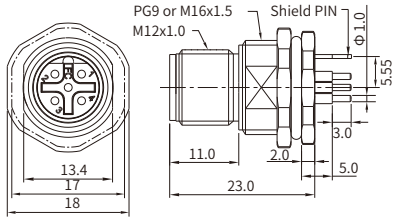
## Part Number

| Pins | Male | |
|---|---|---|
| | Unshielded | Shielded |
| 3 | MB12MBBFF03ST-0 | MB12MBSBFF03ST-0 |
| 4 | MB12MBBFF04ST-0 | MB12MBSBFF04ST-0 |
| 5 | MB12MBBFF05ST-0 | MB12MBSBFF05ST-0 |

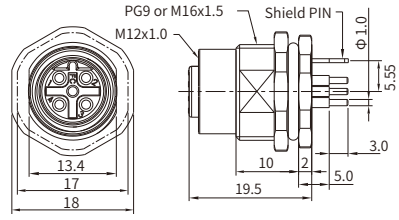
# M12 B-coding (Profibus)

## M12 B-coding Straight Connector, Panel Mount, PCB Type, Front fastened, With Earth Pin

Male




Female




## Specifications

| Contacts | 3 | 4 | 5 |
|---|---|---|---|
| Certification | CYJV2(CYJV8).E321413 | CYJV(CYJV7).E321413 | |
| Pin layout(Male) | | | |
| Pin layout(Female) | | | |
| Standard | IEC 61076-2-101 | | |
| Ambient temperature | -25°C ~ +90°C | | |
| Connector insert | PA+GF | | |
| Connector contacts | Brass with gold plated | | |
| Coupling nut/screw | Brass with nickel plated | | |
| Seal/O-ring | Epoxy resin / FKM | | |
| Insulation resistance | ⩾100MΩ | | |
| Contact resistance | ⩽5mΩ | | |
| Earth tag/pin | Available | | |
| IP rating | IP67, IP68 in locked condition | | |
| Mating endurance | >500 cycles | | |
| Rated current | 4 A | | |
| Rated voltage | 250V AC/DC | | 60V AC/DC |
| Panel cut-out | Refer to page 416 | | |
| PCB layout | Refer to page 415 | | |

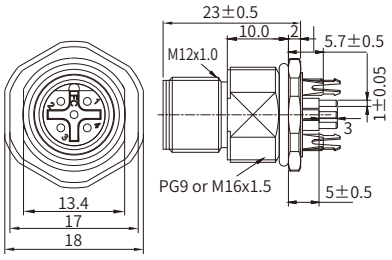
## Part Number

| Pins | Male | | Female | |
|---|---|---|---|---|
| | M16x1.5 | PG9 | M16x1.5 | PG9 |
| 3 | MB12MBSBFF03ST-2 | MB12MBSBFF03ST-3 | MB12FBSBFF03ST-2 | MB12FBSBFF03ST-3 |
| 4 | MB12MBSBFF04ST-2 | MB12MBSBFF04ST-3 | MB12FBSBFF04ST-2 | MB12FBSBFF04ST-3 |
| 5 | MB12MBSBFF05ST-2 | MB12MBSBFF05ST-3 | MB12FBSBFF05ST-2 | MB12FBSBFF05ST-3 |

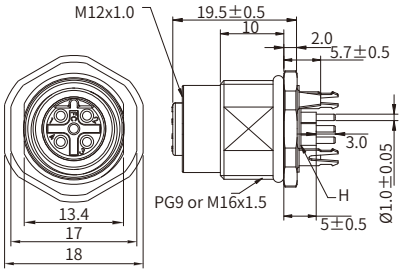
# M12 B-coding (Profibus)

## M12 B-coding Straight Connector, Panel Mount, PCB Type, Front fastened, shielded

Male




Female




## Specifications

| Contacts | 3 | 4 | 5 |
|---|---|---|---|
| Pin layout(Male) | | | |
| Pin layout(Female) | | | |
| Standard | IEC 61076-2-101 | | |
| Ambient temperature | -25°C ~ +90°C | | |
| Connector insert | PA+GF | | |
| Connector contacts | Brass with gold plated | | |
| Coupling nut/screw | Brass with nickel plated | | |
| Seal/O-ring | Epoxy resin / FKM | | |
| Insulation resistance | ⩾100MΩ | | |
| Contact resistance | ⩽5mΩ | | |
| Earth tag/pin | Available | | |
| IP rating | IP67, IP68 in locked condition | | |
| Mating endurance | >500 cycles | | |
| Rated current | 4 A | | |
| Rated voltage | 250V AC/DC | | 60V AC/DC |
| Panel cut-out | Refer to page 416 | | |
| PCB layout | Refer to page 415 | | |

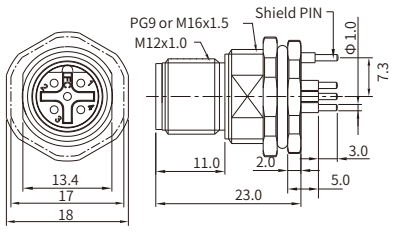
## Part Number

| Pins | Male | | Female | |
|---|---|---|---|---|
| | M16x1.5 | PG9 | M16x1.5 | PG9 |
| 3 | MB12MBS1BFF03ST-2 | MB12MBSBFF03ST-3 | MB12FBSBFF03ST-2 | MB12FBSBFF03ST-3 |
| 4 | MB12MBS1BFF04ST-2 | MB12MBSBFF04ST-3 | MB12FBSBFF04ST-2 | MB12FBSBFF04ST-3 |
| 5 | MB12MBS1BFF05ST-2 | MB12MBSBFF05ST-3 | MB12FBSBFF05ST-2 | MB12FBSBFF05ST-3 |

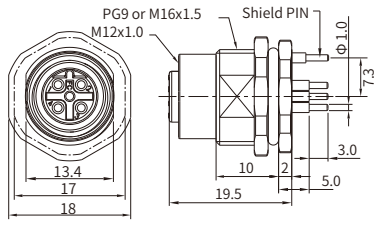
# M12 B-coding (Profibus)

## M12 B-coding Straight Connector, Panel Mount, PCB Type, Front Fastened, With Circular Earth Pin

Male




Female




## Specifications

| Contacts | 3 | 4 | 5 |
|---|---|---|---|
| Certification | CYJV2(CYJV8).E321413 | CYJV(CYJV7).E321413 | |
| Pin layout(Male) | | | |
| Pin layout(Female) | | | |
| Standard | IEC 61076-2-101 | | |
| Ambient temperature | -20°C ~ +90°C | | |
| Connector insert | PA+GF | | |
| Connector contacts | Brass with gold plated | | |
| Coupling nut/screw | Brass with nickel plated | | |
| Seal/O-ring | Epoxy resin / FKM | | |
| Insulation resistance | ⩾100MΩ | | |
| Contact resistance | ⩽5mΩ | | |
| Earth tag/pin | Available | | |
| IP rating | IP67, IP68 in locked condition | | |
| Mating endurance | >500 cycles | | |
| Rated current | 4 A | | |
| Rated voltage | 250V AC/DC | | 60V AC/DC |
| Panel cut-out | Refer to page 416 | | |
| PCB layout | Refer to page 415 | | |

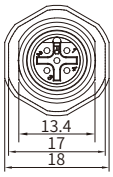
## Part Number

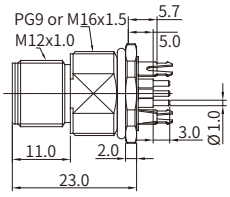
| Pins | Male | | Female | |
|---|---|---|---|---|
| | M16x1.5 | PG9 | M16x1.5 | PG9 |
| 3 | MB12MBSBFF03ST-2-s | MB12MBSBFF03ST-3-s | MB12FBSBFF03ST-2-s | MB12FBSBFF03ST-3-s |
| 4 | MB12MBSBFF04ST-2-s | MB12MBSBFF04ST-3-s | MB12FBSBFF04ST-2-s | MB12FBSBFF04ST-3-s |
| 5 | MB12MBSBFF05ST-2-s | MB12MBSBFF05ST-3-s | MB12FBSBFF05ST-2-s | MB12FBSBFF05ST-3-s |

# M12 B-coding (Profibus)

## M12 B-coding Straight Connector, Panel Mount, PCB Type, Front fastened, With Double Earth Pin

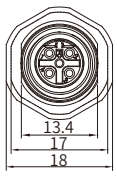
Male

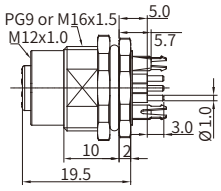



CE RoHS

Female




CE RoHS

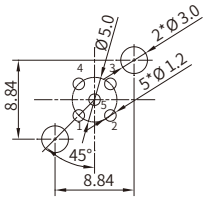
## Specifications

| Contacts | 3 | 4 | 5 |
|---|---|---|---|
| Pin layout(Male) | | | |
| Pin layout(Female) | | | |
| Standard | IEC 61076-2-101 | | |
| Ambient temperature | -25°C ~ +90°C | | |
| Connector insert | PA+GF | | |
| Connector contacts | Brass with gold plated | | |
| Coupling nut/screw | Brass with nickel plated | | |
| Seal/O-ring | Epoxy resin / FKM | | |
| Insulation resistance | ⩾100MΩ | | |
| Contact resistance | ⩽5mΩ | | |
| Earth tag/pin | Available | | |
| IP rating | IP67, IP68 in locked condition | | |
| Mating endurance | >500 cycles | | |
| Rated current | 4 A | | |
| Rated voltage | 250V AC/DC | | 60V AC/DC |
| Panel cut-out | Refer to page 416 | | |

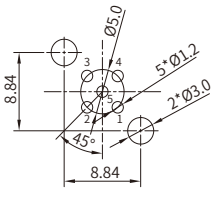
## Part Number

| Pins | Male | | Female | |
|---|---|---|---|---|
| | M16x1.5 | PG9 | M16x1.5 | PG9 |
| 3 | MB12MBSBFF03ST-2 | MB12MBSBFF03ST-3 | MB12FBSBFF03ST-2 | MB12FBSBFF03ST-3 |
| 4 | MB12MBSBFF04ST-2 | MB12MBSBFF04ST-3 | MB12FBSBFF04ST-2 | MB12FBSBFF04ST-3 |
| 5 | MB12MBSBFF05ST-2 | MB12MBSBFF05ST-3 | MB12FBSBFF05ST-2 | MB12FBSBFF05ST-3 |

## PCB layout




Male PIN OD:1.0
3P/4P/5P

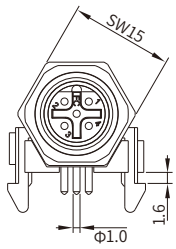


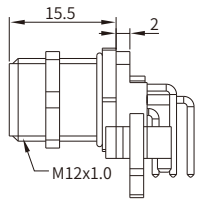

Female PIN OD:1.0
3P/4P/5P

# M12 B-coding (Profibus)

## M12 B-coding Angled Connector, Panel Mount, PCB Type, Front fastened

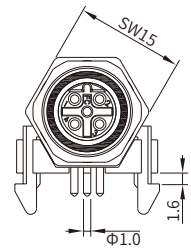
Male

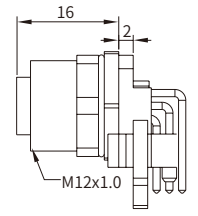



CE RoHS

Female




CE RoHS

## Specifications

| Contacts | 4 | 5 |
|---|---|---|
| Pin layout(Male) | | |
| Pin layout(Female) | | |
| Standard | IEC 61076-2-101 | |
| Ambient temperature | -25°C ~ +90°C | |
| Connector insert | PA+GF | |
| Connector contacts | Brass with gold plated | |
| Coupling nut/screw | Brass with nickel plated | |
| Seal/O-ring | FKM | |
| Insulation resistance | ⩾100MΩ | |
| Contact resistance | ⩽5mΩ | |
| Earth tag/pin | Unavailable/Available | |
| IP rating | IP67, IP68 in locked condition | |
| Mating endurance | >500 cycles | |
| Rated current | 4 A | |
| Rated voltage | 250V AC/DC | 60V AC/DC |
| Panel cut-out | Refer to page 416 | |
| PCB layout | Refer to page 416 | |

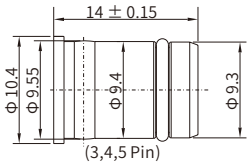
## Part Number

| Pins | Male | | Female | |
|---|---|---|---|---|
| | Unshielded | Shielded | Unshielded | Shielded |
| 4 | MB12MBBFF04RA-0 | MB12MBSBFF04RA-0 | MB12FBBFF04RA-0 | MB12FBSBFF04RA-0 |
| 5 | MB12MBBFF05RA-0 | MB12MBSBFF05RA-0 | MB12FBBFF05RA-0 | MB12FBSBFF05RA-0 |

# M12 B-coding (Profibus)

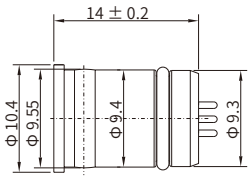
## M12 B-coding Straight Connector, Plastic Housing with O-ring

Male Solder




RoHS

Male PCB Type




RoHS

## Specifications

| Contacts | 3 | 4 | 5 |
|---|---|---|---|
| Pin layout(Male) | | | |
| Standard | IEC 61076-2-101 | | |
| Ambient temperature | -20°C ~ +90°C | | |
| Connector insert | PA | | |
| Connector contacts | Brass with gold plated | | |
| Seal/O-ring | Epoxy resin / FKM | | |
| Insulation resistance | ⩾100MΩ | | |
| Contact resistance | ⩽5mΩ | | |
| Earth tag/pin | Unavailable | | |
| IP rating | IP67, IP68 in locked condition | | |
| Mating endurance | >500 cycles | | |
| Rated current | 4 A | | |
| Rated voltage | 250V AC/DC | | 60V AC/DC |

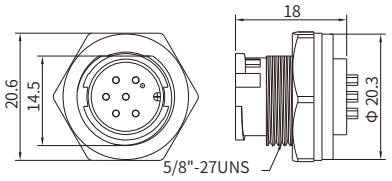
## Part Number

| Pins | Male | |
|---|---|---|
| | Solder | PCB Type |
| 3 | M12H-MSB03 | M12H-MBB03 |
| 4 | M12H-MSB04 | M12H-MBB04 |
| 5 | M12H-MSB05 | M12H-MBB05 |

# M12 Quick-lock

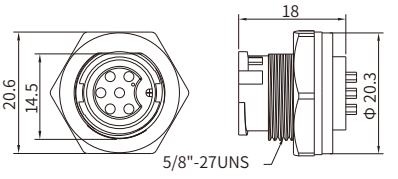
## M12 Quick-lock Type Panel Mount, Solder, Front fastened

Male




CE RoHS

Female




CE RoHS

## Specifications

| Contacts | 4 | 6 |
|---|---|---|
| Pin layout(Male) | | |
| Pin layout(Female) | | |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | |
| Connector insert | PA+GF | |
| Connector contacts | Brass with gold plated | |
| Coupling nut/screw | PA+GF | |
| Seal/O-ring | Epoxy resin / FKM | |
| Insulation resistance | ⩾100MΩ | |
| Contact resistance | ⩽5mΩ | |
| Earth tag/pin | Unavailable | |
| IP rating | IP65, IP67, IP68 in locked condition | |
| Mating endurance | >500 cycles | |
| Rated current | 4 A | |
| Rated voltage | 250V AC/DC | 60V AC/DC |
| Wire gauge | 0.34mm$^2$(AWG22) | |
| Panel cut-out | Refer to page 416 | |

## Part Number

| Pins | wire length | Male | Female |
|---|---|---|---|
| 4 | 0.1m | MB12MSAFQ04ST3401 | MB12FSAFQ04ST3401 |
| | 0.3m | MB12MSAFQ04ST3403 | MB12FSAFQ04ST3403 |
| 6 | 0.1m | MB12MSAFQ06ST3401 | MB12FSAFQ06ST3401 |
| | 0.3m | MB12MSAFQ06ST3403 | MB12FSAFQ06ST3403 |

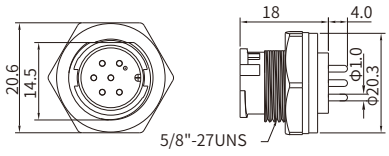
## Default wire colors

| Pin No. | | |
|---|---|---|
| Pin 1 | BN | BN |
| Pin 2 | WH | WH |
| Pin 3 | BU | BU |
| Pin 4 | BK | BK |
| Pin 5 | | GY |
| Pin 6 | | PK |

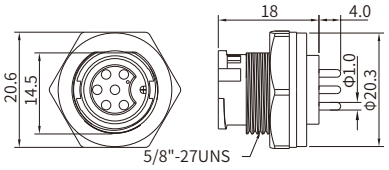
# M12 Quick-lock

## M12 Quick-lock Type  Panel Mount, PCB Type, Front fastened

Male




Female




CE RoHS IP68

CE RoHS IP68

## Specifications

| Contacts | 4 | 6 |
|---|---|---|
| Pin layout(Male) | | |
| Pin layout(Female) | | |
| Ambient temperature | -25°C ~ +90°C | |
| Connector insert | PA+GF | |
| Connector contacts | Brass with gold plated | |
| Coupling nut/screw | PA+GF | |
| Seal/O-ring | Epoxy resin / FKM | |
| Insulation resistance | ⩾100MΩ | |
| Contact resistance | ⩽5mΩ | |
| Earth tag/pin | Unavailable | |
| IP rating | IP65, IP67, IP68 in locked condition | |
| Mating endurance | >500 cycles | |
| Rated current | 4 A | |
| Rated voltage | 250V AC/DC | 60V AC/DC |
| Panel cut-out | Refer to page 416 | |
| PCB layout | Refer to page 415 | |

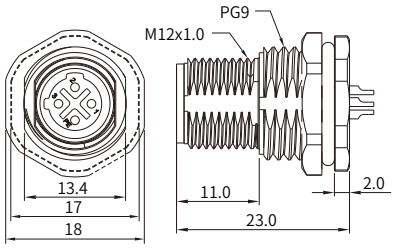
## Part Number

| Pins | Male | Female |
|---|---|---|
| 4 | MB12MBAFQ04ST | MB12FBAFQ04ST |
| 6 | MB12MBAFQ06ST | MB12FBAFQ06ST |

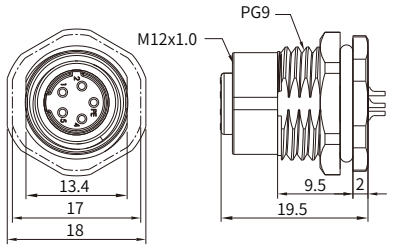
# M12 C-coding (Power)

## M12 C-coding Straight Connector, Panel Mount, Die-cast Screw, Solder, Front fastened

Male




Female




## Specifications

| Contacts | 3 (2+PE) | 4 (3+PE) | 5 (4+PE) | 6 (5+PE) |
|---|---|---|---|---|
| Certification | cULus LISTED CYJV/CYJV7. E321413 | | cULus CYJV2(CYJV8).E321413 | |
| Pin layout(Male) | | | | |
| Pin layout(Female) | | | | |
| Standard | IEC 61076-2-101 | | | |
| Ambient temperature | -15°C~+85°C (flexible installation), -30°C~+85°C (fixed installation) | | | |
| Customized temperature | -25°C ~ +85°C (flexible installation), -40°C ~ +85°C (fixed installation) | | | |
| Connector insert | PA | | | |
| Connector contacts | Brass with gold plated | | | |
| Coupling nut/screw | Zinc alloy with nickel plated | | | |
| Seal/O-ring | Epoxy resin / FKM | | | |
| Insulation resistance | ⩾100MΩ | | | |
| Contact resistance | ⩽5mΩ | | | |
| Earth tag/pin | Unavailable | | | |
| IP rating | IP67, IP68 in locked condition | | | |
| Mating endurance | >500 cycles | | | |
| Rated current | 4 A | | 2 A | |
| Rated voltage | 250V AC/DC | | 60V AC/DC | 30V AC/DC |
| Wire gauge | 0.34mm$^2$ (AWG22) | | 0.25 mm$^2$ (AWG 24) | |
| Panel cut-out | Refer to page 416 | | | |

## Part Number

| Pins | Cable length | Male PG9 | Female PG9 |
|---|---|---|---|
| 3 | 0.1m | MB12MSCFHD03ST-33401 | MB12FSCFHD03ST-33401 |
| | 0.3m | MB12MSCFHD03ST-33403 | MB12FSCFHD03ST-33403 |
| 4 | 0.1m | MB12MSCFHD04ST-33401 | MB12FSCFHD04ST-33401 |
| | 0.3m | MB12MSCFHD04ST-33403 | MB12FSCFHD04ST-33403 |
| 5 | 0.1m | MB12MSCFHD05ST-32501 | MB12FSCFHD05ST-32501 |
| | 0.3m | MB12MSCFHD05ST-32503 | MB12FSCFHD05ST-32503 |
| 6 | 0.1m | MB12MSCFHD06ST-32501 | MB12FSCFHD06ST-32501 |
| | 0.3m | MB12MSCFHD06ST-32503 | MB12FSCFHD06ST-32503 |

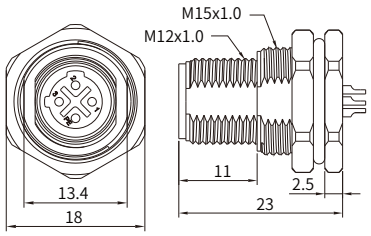
## Default wire colors

| Pin No. | | | | |
|---|---|---|---|---|
| Pin 1 | BN | BN | BN | WH |
| Pin 2 | | WH | WH | BN |
| Pin 3 | BU | BU | BU | GN |
| Pin 4 | BK | BK | BK | YE |
| Pin 5 | | | GY | GY |
| Pin 6 | | | | PK |

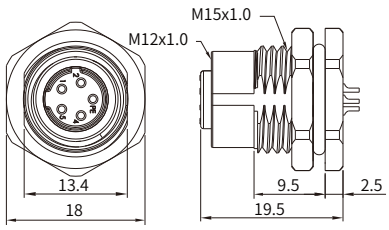
# M12 C-coding (Power)

## M12 C-coding Straight Connector, Panel Mount, Plastic Solder, Front fastened

Male




Female




## Specifications

| Contacts | 3 (2+PE) | 4 (3+PE) | 5 (4+PE) | 6 (5+PE) |
|---|---|---|---|---|
| Pin layout(Male) | | | | |
| Pin layout(Female) | | | | |
| Standard | IEC 61076-2-101 | | | |
| Ambient temperature | -15°C~+85°C (flexible installation), -30°C~+85°C (fixed installation) | | | |
| Customized temperature | -25°C ~ +85°C (flexible installation), -40°C ~ +85°C (fixed installation) | | | |
| Connector insert | PA | | | |
| Connector contacts | Brass with gold plated | | | |
| Coupling nut/screw | PA+GF | | | |
| Seal/O-ring | Epoxy resin / FKM | | | |
| Insulation resistance | ⩾100MΩ | | | |
| Contact resistance | ⩽5mΩ | | | |
| Earth tag/pin | Unavailable | | | |
| IP rating | IP67, IP68 in locked condition | | | |
| Mating endurance | >500 cycles | | | |
| Rated current | 4 A | | 2 A | |
| Rated voltage | 250V AC/DC | | 60V AC/DC | 30V AC/DC |
| Wire gauge | 0.34mm² (AWG22) | | 0.25 mm² (AWG 24) | |
| Panel cut-out | Refer to page 416 | | | |

## Part Number

| Pins | Cable length | Male M15x1.0 | Female M15x1.0 |
|---|---|---|---|
| 3 | 0.1m | MB12MSCFP03ST-13401 | MB12FSCFP03ST-13401 |
| | 0.3m | MB12MSCFP03ST-13403 | MB12FSCFP03ST-13403 |
| 4 | 0.1m | MB12MSCFP04ST-13401 | MB12FSCFP04ST-13401 |
| | 0.3m | MB12MSCFP04ST-13403 | MB12FSCFP04ST-13403 |
| 5 | 0.1m | MB12MSCFP05ST-12501 | MB12FSCFP05ST-12501 |
| | 0.3m | MB12MSCFP05ST-12503 | MB12FSCFP05ST-12503 |
| 6 | 0.1m | MB12MSCFP06ST-12501 | MB12FSCFP06ST-12501 |
| | 0.3m | MB12MSCFP06ST-12503 | MB12FSCFP06ST-12503 |

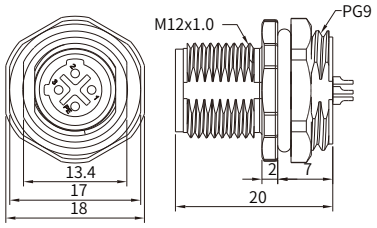
## Default wire colors

| Pin No. | | | | |
|---|---|---|---|---|
| Pin 1 | BN | BN | BN | WH |
| Pin 2 | | WH | WH | BN |
| Pin 3 | BU | BU | BU | GN |
| Pin 4 | BK | BK | BK | YE |
| Pin 5 | | | GY | GY |
| Pin 6 | | | | PK |

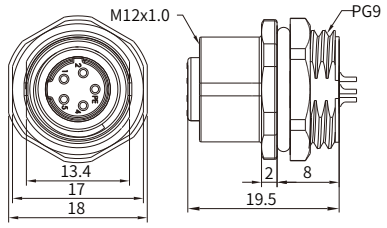
# M12 C-coding (Power)

## M12 C-coding Straight Connector, Panel Mount, Die-cast Screw, Solder, Rear fastened

Male




Female




## Specifications

| Contacts | 3 (2+PE) | 4 (3+PE) | 5 (4+PE) | 6 (5+PE) |
|---|---|---|---|---|
| Certification | cULus LISTED CYJV/CYJV7. E321413 | | cULus CYJV2(CYJV8).E321413 | |
| Pin layout(Male) | | | | |
| Pin layout(Female) | | | | |
| Standard | IEC 61076-2-101 | | | |
| Ambient temperature | -15°C~+85°C (flexible installation), -30°C~+85°C (fixed installation) | | | |
| Customized temperature | -25°C ~ +85°C (flexible installation), -40°C ~ +85°C (fixed installation) | | | |
| Connector insert | PA | | | |
| Connector contacts | Brass with gold plated | | | |
| Coupling nut/screw | Zinc alloy with nickel plated | | | |
| Seal/O-ring | Epoxy resin / FKM | | | |
| Insulation resistance | ⩾100MΩ | | | |
| Contact resistance | ⩽5mΩ | | | |
| Earth tag/pin | Unavailable | | | |
| IP rating | IP67, IP68 in locked condition | | | |
| Mating endurance | >500 cycles | | | |
| Rated current | 4 A | | 2 A | |
| Rated voltage | 250V AC/DC | | 60V AC/DC | 30V AC/DC |
| Wire gauge | 0.34mm² (AWG22) | | 0.25 mm² (AWG 24) | |
| Panel cut-out | Refer to page 416 | | | |

## Part Number

| Pins | Cable length | Male PG9 | Female PG9 |
|---|---|---|---|
| 3 | 0.1m | MB12MSCRHD03ST-33401 | MB12FSCRHD03ST-33401 |
| | 0.3m | MB12MSCRHD03ST-33403 | MB12FSCRHD03ST-33403 |
| 4 | 0.1m | MB12MSCRHD04ST-33401 | MB12FSCRHD04ST-33401 |
| | 0.3m | MB12MSCRHD04ST-33403 | MB12FSCRHD04ST-33403 |
| 5 | 0.1m | MB12MSCRHD05ST-32501 | MB12FSCRHD05ST-32501 |
| | 0.3m | MB12MSCRHD05ST-32503 | MB12FSCRHD05ST-32503 |
| 6 | 0.1m | MB12MSCRHD06ST-32501 | MB12FSCRHD06ST-32501 |
| | 0.3m | MB12MSCRHD06ST-32503 | MB12FSCRHD06ST-32503 |

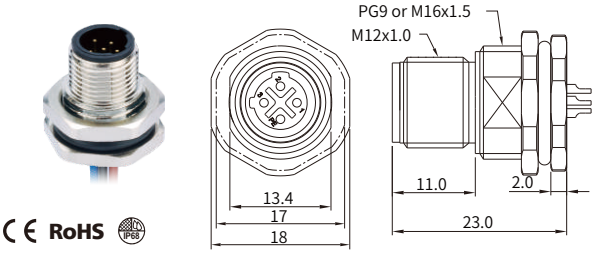
## Default wire colors

| Pin No. | | | | |
|---|---|---|---|---|
| Pin 1 | BN | BN | BN | WH |
| Pin 2 | | WH | WH | BN |
| Pin 3 | BU | BU | BU | GN |
| Pin 4 | BK | BK | BK | YE |
| Pin 5 | | | GY | GY |
| Pin 6 | | | | PK |

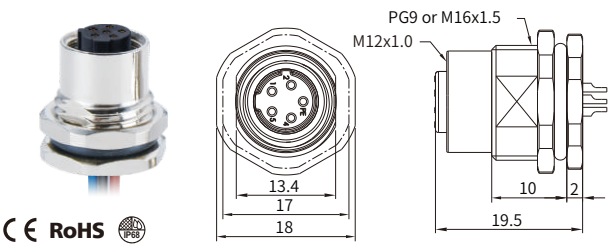
# M12 C-coding (Power)

## M12 C-coding Straight Connector, Panel Mount, Solder, Front fastened

Male




Female




## Specifications

| Contacts | 3 (2+PE) | 4 (3+PE) | 5 (4+PE) | 6 (5+PE) |
|---|---|---|---|---|
| Certification | cULus LISTED CYJV/CYJV7. E321413 | | cULus CYJV2(CYJV8).E321413 | |
| Pin layout(Male) | | | | |
| Pin layout(Female) | | | | |
| Standard | IEC 61076-2-101 | | | |
| Ambient temperature | -15°C~+85°C (flexible installation), -30°C~+85°C (fixed installation) | | | |
| Customized temperature | -25°C ~ +85°C (flexible installation), -40°C ~ +85°C (fixed installation) | | | |
| Connector insert | TPU | | | |
| Connector contacts | Brass with gold plated | | | |
| Coupling nut/screw | Brass with nickel plated | | | |
| Seal/O-ring | Epoxy resin / FKM | | | |
| Insulation resistance | ⩾100MΩ | | | |
| Contact resistance | ⩽5mΩ | | | |
| Earth tag/pin | Unavailable | | | |
| IP rating | IP67, IP68 in locked condition | | | |
| Mating endurance | >500 cycles | | | |
| Rated current | 4 A | | 2 A | |
| Rated voltage | 250V AC/DC | | 60V AC/DC | 30V AC/DC |
| Wire gauge | 0.34mm² (AWG22) | | 0.25 mm² (AWG 24) | |
| Panel cut-out | Refer to page 416 | | | |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | M16x1.5 | PG9 | M16x1.5 | PG9 |
| 3 | 0.1m | MB12MSCFF03ST-23401 | MB12MSCFF03ST-33401 | MB12FSCFF03ST-23401 | MB12FSCFF03ST-33401 |
| | 0.3m | MB12MSCFF03ST-23403 | MB12MSCFF03ST-33403 | MB12FSCFF03ST-23403 | MB12FSCFF03ST-33403 |
| 4 | 0.1m | MB12MSCFF04ST-23401 | MB12MSCFF04ST-33401 | MB12FSCFF04ST-23401 | MB12FSCFF04ST-33401 |
| | 0.3m | MB12MSCFF04ST-23403 | MB12MSCFF04ST-33403 | MB12FSCFF04ST-23403 | MB12FSCFF04ST-33403 |
| 5 | 0.1m | MB12MSCFF05ST-22501 | MB12MSCFF05ST-32501 | MB12FSCFF05ST-22501 | MB12FSCFF05ST-32501 |
| | 0.3m | MB12MSCFF05ST-22503 | MB12MSCFF05ST-32503 | MB12FSCFF05ST-22503 | MB12FSCFF05ST-32503 |
| 6 | 0.1m | MB12MSCFF06ST-22501 | MB12MSCFF06ST-32501 | MB12FSCFF06ST-22501 | MB12FSCFF06ST-32501 |
| | 0.3m | MB12MSCFF06ST-22503 | MB12MSCFF06ST-32503 | MB12FSCFF06ST-22503 | MB12FSCFF06ST-32503 |

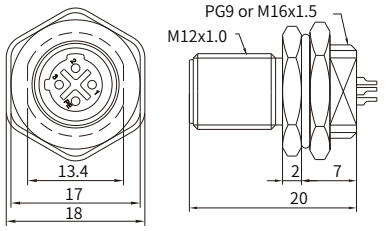
## Default wire colors

| Pin No. | | | | |
|---|---|---|---|---|
| Pin 1 | BN | BN | BN | WH |
| Pin 2 | | WH | WH | BN |
| Pin 3 | BU | BU | BU | GN |
| Pin 4 | BK | BK | BK | YE |
| Pin 5 | | | GY | GY |
| Pin 6 | | | | PK |

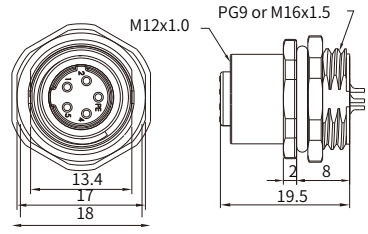
# M12 C-coding (Power)

## M12 C-coding Straight Connector, Panel Mount, Solder, Rear fastened

Male




Female




## Specifications

| Contacts | 3 (2+PE) | 4 (3+PE) | 5 (4+PE) | 6 (5+PE) |
|---|---|---|---|---|
| Certification | | CYJV/CYJV7. E321413 | CYJV2(CYJV8).E321413 | |
| Pin layout(Male) | | | | |
| Pin layout(Female) | | | | |
| Standard | IEC 61076-2-101 | | | |
| Ambient temperature | -15°C~+85°C (flexible installation), -30°C~+85°C (fixed installation) | | | |
| Customized temperature | -25°C ~ +85°C (flexible installation), -40°C ~ +85°C (fixed installation) | | | |
| Connector insert | TPU | | | |
| Connector contacts | Brass with gold plated | | | |
| Coupling nut/screw | Brass with nickel plated | | | |
| Seal/O-ring | Epoxy resin / FKM | | | |
| Insulation resistance | ⩾100MΩ | | | |
| Contact resistance | ⩽5mΩ | | | |
| Earth tag/pin | Unavailable | | | |
| IP rating | IP67, IP68 in locked condition | | | |
| Mating endurance | >500 cycles | | | |
| Rated current | 4 A | | 2 A | |
| Rated voltage | 250V AC/DC | | 60V AC/DC | 30V AC/DC |
| Wire gauge | 0.34mm² (AWG22) | | 0.25 mm² (AWG 24) | |
| Panel cut-out | Refer to page 416 | | | |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | M16x1.5 | PG9 | M16x1.5 | PG9 |
| 3 | 0.1m | MB12MSCRF03ST-23401 | MB12MSCRF03ST-33401 | MB12FSCRF03ST-23401 | MB12FSCRF03ST-33401 |
| | 0.3m | MB12MSCRF03ST-23403 | MB12MSCRF03ST-33403 | MB12FSCRF03ST-23403 | MB12FSCRF03ST-33403 |
| 4 | 0.1m | MB12MSCRF04ST-23401 | MB12MSCRF04ST-33401 | MB12FSCRF04ST-23401 | MB12FSCRF04ST-33401 |
| | 0.3m | MB12MSCRF04ST-23403 | MB12MSCRF04ST-33403 | MB12FSCRF04ST-23403 | MB12FSCRF04ST-33403 |
| 5 | 0.1m | MB12MSCRF05ST-22501 | MB12MSCRF05ST-32501 | MB12FSCRF05ST-22501 | MB12FSCRF05ST-32501 |
| | 0.3m | MB12MSCRF05ST-22503 | MB12MSCRF05ST-32503 | MB12FSCRF05ST-22503 | MB12FSCRF05ST-32503 |
| 6 | 0.1m | MB12MSCRF06ST-22501 | MB12MSCRF06ST-32501 | MB12FSCRF06ST-22501 | MB12FSCRF06ST-32501 |
| | 0.3m | MB12MSCRF06ST-22503 | MB12MSCRF06ST-32503 | MB12FSCRF06ST-22503 | MB12FSCRF06ST-32503 |

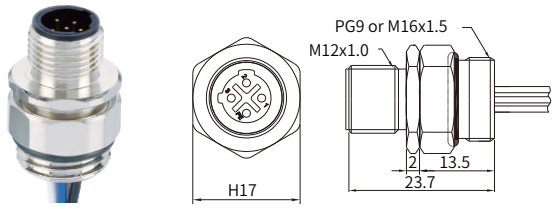
## Default wire colors

| Pin No. | | | | |
|---|---|---|---|---|
| Pin 1 | BN | BN | BN | WH |
| Pin 2 | | WH | WH | BN |
| Pin 3 | BU | BU | BU | GN |
| Pin 4 | BK | BK | BK | YE |
| Pin 5 | | | GY | GY |
| Pin 6 | | | | PK |

# M12 C-coding (Power)

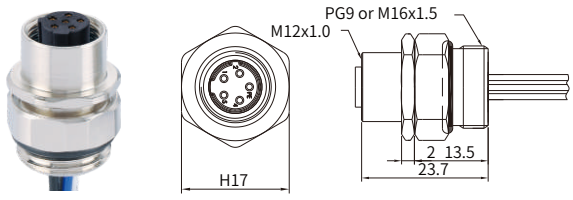
## M12 C-coding Straight Connector, Panel Mount, Solder, Rear fastened, Adjustable Nut

Male




CE RoHS

Female




CE RoHS

## Specifications

| Contacts | 3 (2+PE) | 4 (3+PE) | 5 (4+PE) | 6 (5+PE) |
|---|---|---|---|---|
| Certification | cULus LISTED CYJV/CYJV7. E321413 | | cULus CYJV2(CYJV8).E321413 | |
| Pin layout(Male) | | | | |
| Pin layout(Female) | | | | |
| Standard | IEC 61076-2-101 | | | |
| Ambient temperature | -15°C~+85°C (flexible installation), -30°C~+85°C (fixed installation) | | | |
| Customized temperature | -25°C ~ +85°C (flexible installation), -40°C ~ +85°C (fixed installation) | | | |
| Connector insert | TPU | | | |
| Connector contacts | Brass with gold plated | | | |
| Coupling nut/screw | Brass with nickel plated | | | |
| Seal/O-ring | Epoxy resin / FKM | | | |
| Insulation resistance | ⩾100MΩ | | | |
| Contact resistance | ⩽5mΩ | | | |
| Earth tag/pin | Unavailable | | | |
| IP rating | IP67, IP68 in locked condition | | | |
| Mating endurance | >500 cycles | | | |
| Rated current | 4 A | | 2 A | |
| Rated voltage | 250V AC/DC | | 60V AC/DC | 30V AC/DC |
| Wire gauge | 0.34mm² (AWG22) | | 0.25 mm² (AWG 24) | |
| Panel cut-out | Refer to page 416 | | | |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | M16x1.5 | PG9 | M16x1.5 | PG9 |
| 3 | 0.1m | MB12MSCRF03ST-23401 | MB12MSCRF03ST-33401 | MB12FSCRF03ST-23401 | MB12FSCRF03ST-33401 |
| | 0.3m | MB12MSCRF03ST-23403 | MB12MSCRF03ST-33403 | MB12FSCRF03ST-23403 | MB12FSCRF03ST-33403 |
| 4 | 0.1m | MB12MSCRF04ST-23401 | MB12MSCRF04ST-33401 | MB12FSCRF04ST-23401 | MB12FSCRF04ST-33401 |
| | 0.3m | MB12MSCRF04ST-23403 | MB12MSCRF04ST-33403 | MB12FSCRF04ST-23403 | MB12FSCRF04ST-33403 |
| 5 | 0.1m | MB12MSCRF05ST-22501 | MB12MSCRF05ST-32501 | MB12FSCRF05ST-22501 | MB12FSCRF05ST-32501 |
| | 0.3m | MB12MSCRF05ST-22503 | MB12MSCRF05ST-32503 | MB12FSCRF05ST-22503 | MB12FSCRF05ST-32503 |
| 6 | 0.1m | MB12MSCRF06ST-22501 | MB12MSCRF06ST-32501 | MB12FSCRF06ST-22501 | MB12FSCRF06ST-32501 |
| | 0.3m | MB12MSCRF06ST-22503 | MB12MSCRF06ST-32503 | MB12FSCRF06ST-22503 | MB12FSCRF06ST-32503 |

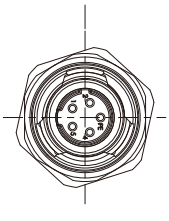
## Default wire colors

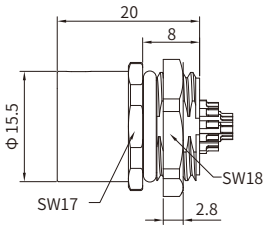
| Pin No. | | | | |
|---|---|---|---|---|
| Pin 1 | BN | BN | BN | WH |
| Pin 2 | | WH | WH | BN |
| Pin 3 | BU | BU | BU | GN |
| Pin 4 | BK | BK | BK | YE |
| Pin 5 | | | GY | GY |
| Pin 6 | | | | PK |

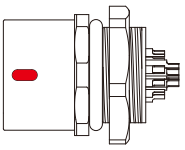
# M12 C-coding (Power)

## M12 C-coding Push-Pull Female Straight Panel Mount, Rear fastened, Shielded

Female





RoHS IP68

## Specifications

| Contacts | 3 (2+PE) | 4 (3+PE) | 5 (4+PE) | 6 (5+PE) |
|---|---|---|---|---|
| Pin layout(Female) | | | | |
| Standard | IEC 61076-2-012-2020 | | | |
| Ambient temperature | -25 °C ~ +85°C | | | |
| Insulator | PA | | | |
| Connector contacts | Brass with gold plated | | | |
| Out shell | Brass with Black nickel plated | | | |
| Insulator resistance | ⩾100MΩ | | | |
| IP rating | IP 67(Mated) | | | |
| Shielding effciency | at 10MHz>75dB/at 1GHz>40dB | | | |
| Salt spray corrosion test | >96h | | | |
| Endurance | 500 cycles | | | |
| Rated current | 4 A | | 2 A | |
| Voltage | 250V AC/DC | | 60V AC/DC | 30V AC/DC |
| Wire gauge / size | 0.34mm² (AWG22) | | 0.25 mm² (AWG 24) | |
| Panel cut-out | Refer to page 416 | | | |

## Part Number

| Pins | Cable length | Female |
|---|---|---|
| 3 | 0.1m | MB12FSPCPP03ST-3-33401 |
| | 0.3m | MB12FSPCPP03ST-3-33403 |
| 4 | 0.1m | MB12FSPCPP04ST-3-33401 |
| | 0.3m | MB12FSPCPP04ST-3-33403 |
| 5 | 0.1m | MB12FSPCPP05ST-3-32501 |
| | 0.3m | MB12FSPCPP05ST-332503 |
| 6 | 0.1m | MB12FSPCPP06ST-3-32501 |
| | 0.3m | MB12FSPCPP06ST-3-32503 |

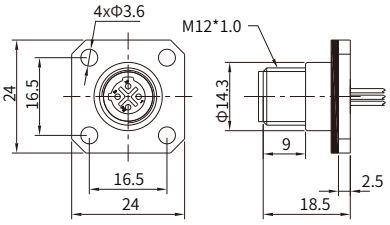
## Default wire colors

| Pin No. | | | | |
|---|---|---|---|---|
| Pin 1 | BN | BN | BN | WH |
| Pin 2 | | WH | WH | BN |
| Pin 3 | BU | BU | BU | GN |
| Pin 4 | BK | BK | BK | YE |
| Pin 5 | | | GY | GY |
| Pin 6 | | | | PK |

# M12 C-coding (Power)

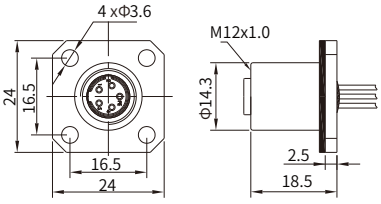
## M12 C-coding Straight Connector, Panel Mount, Solder, with Flange

Male




CE RoHS

Female




CE RoHS

## Specifications

| Contacts | 3 (2+PE) | 4 (3+PE) | 5 (4+PE) | 6 (5+PE) |
|---|---|---|---|---|
| Pin layout(Male) | | | | |
| Pin layout(Female) | | | | |
| Standard | IEC 61076-2-101 | | | |
| Ambient temperature | -15°C~+85°C (flexible installation), -30°C~+85°C (fixed installation) | | | |
| Customized temperature | -25°C ~ +85°C (flexible installation), -40°C ~ +85°C (fixed installation) | | | |
| Connector insert | TPU | | | |
| Connector contacts | Brass with gold plated | | | |
| Coupling nut/screw | Brass with nickel plated | | | |
| Seal/O-ring | Epoxy resin / FKM | | | |
| Insulation resistance | ⩾100MΩ | | | |
| Contact resistance | ⩽5mΩ | | | |
| Earth tag/pin | Unavailable | | | |
| IP rating | IP67, IP68 in locked condition | | | |
| Mating endurance | >500 cycles | | | |
| Rated current | 4 A | | 2 A | |
| Rated voltage | 250V AC/DC | | 60V AC/DC | 30V AC/DC |
| Wire gauge | 0.34mm²(AWG22) | | 0.25 mm² (AWG 24) | |

## Part Number

| Pins | Cable length | Male | Female |
|---|---|---|---|
| 3 | 0.1m | MB12MSCFLF03ST-3401 | MB12FSCFLF03ST-3401 |
| | 0.3m | MB12MSCFLF03ST-3403 | MB12FSCFLF03ST-3403 |
| 4 | 0.1m | MB12MSCFLF04ST-3401 | MB12FSCFLF04ST-3401 |
| | 0.3m | MB12MSCFLF04ST-3403 | MB12FSCFLF04ST-3403 |
| 5 | 0.1m | MB12MSCFLF05ST-2501 | MB12FSCFLF05ST-2501 |
| | 0.3m | MB12MSCFLF05ST-2503 | MB12FSCFLF05ST-2503 |
| 6 | 0.1m | MB12MSCFLF06ST-2501 | MB12FSCFLF06ST-2501 |
| | 0.3m | MB12MSCFLF06ST-2503 | MB12FSCFLF06ST-2503 |

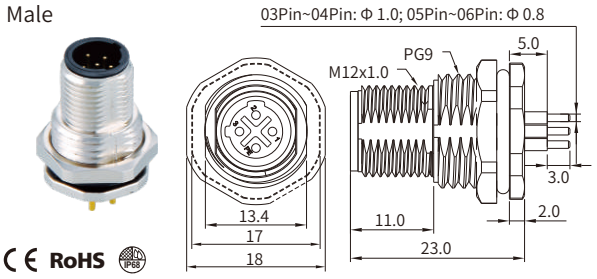
## Default wire colors

| Pin No. | | | | |
|---|---|---|---|---|
| Pin 1 | BN | BN | BN | WH |
| Pin 2 | | WH | WH | BN |
| Pin 3 | BU | BU | BU | GN |
| Pin 4 | BK | BK | BK | YE |
| Pin 5 | | | GY | GY |
| Pin 6 | | | | PK |

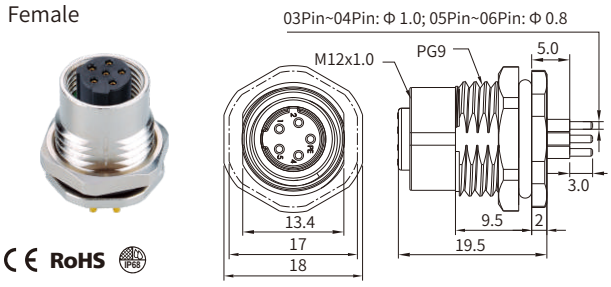
# M12 C-coding (Power)

## M12 C-coding Straight Connector, Panel Mount, Die-cast Screw, PCB Type, Front fastened

Male




Female




## Specifications

| Contacts | 3 (2+PE) | 4 (3+PE) | 5 (4+PE) | 6 (5+PE) |
|---|---|---|---|---|
| Certification | cULus LISTED CYJV/CYJV7. E321413 | | c UL us CYJV2(CYJV8).E321413 | |
| Pin layout(Male) | | | | |
| Pin layout(Female) | | | | |
| Standard | IEC 61076-2-101 | | | |
| Ambient temperature | -25°C ~ +90°C | | | |
| Connector insert | PA | | | |
| Connector contacts | Brass with gold plated | | | |
| Coupling nut/screw | Zinc alloy with nickel plated | | | |
| Seal/O-ring | Epoxy resin / FKM | | | |
| Insulation resistance | ⩾100MΩ | | | |
| Contact resistance | ⩽5mΩ | | | |
| Earth tag/pin | Unavailable | | | |
| IP rating | IP67, IP68 in locked condition | | | |
| Mating endurance | >500 cycles | | | |
| Rated current | 4 A | | 2 A | |
| Rated voltage | 250V AC/DC | | 60V AC/DC | 30V AC/DC |
| Panel cut-out | Refer to page 416 | | | |
| PCB layout | Refer to page 415 | | | |

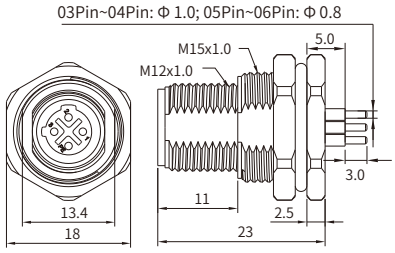
## Part Number

| Pins | Male | Female |
|---|---|---|
| | PG9 | PG9 |
| 3 | MB12MBCFHD03ST-3 | MB12FBCFHD03ST-3 |
| 4 | MB12MBCFHD04ST-3 | MB12FBCFHD04ST-3 |
| 5 | MB12MBCFHD05ST-3 | MB12FBCFHD05ST-3 |
| 6 | MB12MBCFHD06ST-3 | MB12FBCFHD06ST-3 |

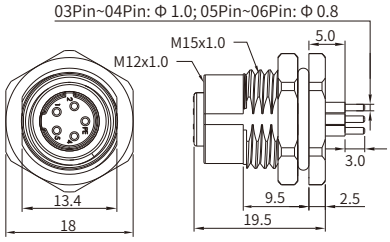
# M12 C-coding (Power)

## M12 C-coding Straight Connector, Panel Mount, Plastic PCB Type, Front fastened

Male




Female




## Specifications

| Contacts | 3 (2+PE) | 4 (3+PE) | 5 (4+PE) | 6 (5+PE) |
|---|---|---|---|---|
| Pin layout(Male) | | | | |
| Pin layout(Female) | | | | |
| Standard | IEC 61076-2-101 | | | |
| Ambient temperature | -25°C ~ +90°C | | | |
| Connector insert | PA | | | |
| Connector contacts | Brass with gold plated | | | |
| Coupling nut/screw | PA+GF | | | |
| Seal/O-ring | Epoxy resin / FKM | | | |
| Insulation resistance | ⩾100MΩ | | | |
| Contact resistance | ⩽5mΩ | | | |
| Earth tag/pin | Unavailable | | | |
| IP rating | IP67, IP68 in locked condition | | | |
| Mating endurance | >500 cycles | | | |
| Rated current | 4 A | | 2 A | |
| Rated voltage | 250V AC/DC | | 60V AC/DC | 30V AC/DC |
| Panel cut-out | Refer to page 416 | | | |
| PCB layout | Refer to page 415 | | | |

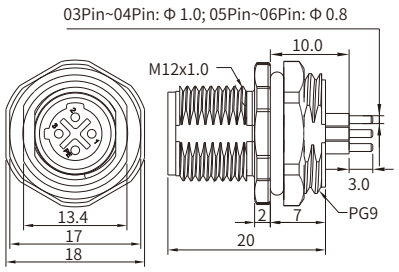
## Part Number

| Pins | Male | Female |
|---|---|---|
| | M15x1.0 | M15x1.0 |
| 3 | MB12MBCFP03ST-3 | MB12FBCFP03ST-3 |
| 4 | MB12MBCFP04ST-3 | MB12FBCFP04ST-3 |
| 5 | MB12MBCFP05ST-3 | MB12FBCFP05ST-3 |
| 6 | MB12MBCFP06ST-3 | MB12FBCFP06ST-3 |

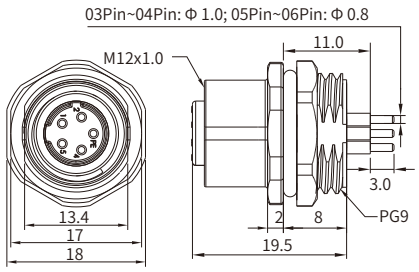
# M12 C-coding (Power)

## M12 C-coding Straight Connector, Panel Mount, Die-cast Screw, PCB Type, Rear fastened

Male




Female




## Specifications

| Contacts | 3 (2+PE) | 4 (3+PE) | 5 (4+PE) | 6 (5+PE) |
|---|---|---|---|---|
| Certification | cULus LISTED CYJV/CYJV7. E321413 | | c UL us CYJV2(CYJV8).E321413 | |
| Pin layout(Male) | | | | |
| Pin layout(Female) | | | | |
| Standard | IEC 61076-2-101 | | | |
| Ambient temperature | -25°C ~ +90°C | | | |
| Connector insert | PA | | | |
| Connector contacts | Brass with gold plated | | | |
| Coupling nut/screw | Zinc alloy with nickel plated | | | |
| Seal/O-ring | Epoxy resin / FKM | | | |
| Insulation resistance | ⩾100MΩ | | | |
| Contact resistance | ⩽5mΩ | | | |
| Earth tag/pin | Unavailable | | | |
| IP rating | IP67, IP68 in locked condition | | | |
| Mating endurance | >500 cycles | | | |
| Rated current | 4 A | | 2 A | |
| Rated voltage | 250V AC/DC | | 60V AC/DC | 30V AC/DC |
| Panel cut-out | Refer to page 416 | | | |
| PCB layout | Refer to page 415 | | | |

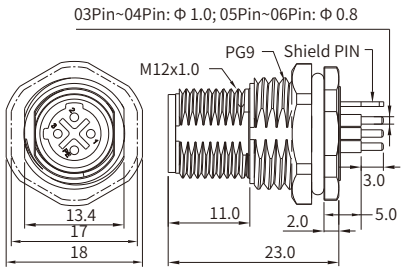
## Part Number

| Pins | Male | Female |
|---|---|---|
| | PG9 | PG9 |
| 3 | MB12MBCRHD03ST-3 | MB12FBCRHD03ST-3 |
| 4 | MB12MBCRHD04ST-3 | MB12FBCRHD04ST-3 |
| 5 | MB12MBCRHD05ST-3 | MB12FBCRHD05ST-3 |
| 6 | MB12MBCRHD06ST-3 | MB12FBCRHD06ST-3 |

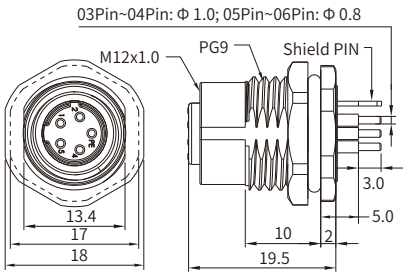
# M12 C-coding (Power)

## M12 C-coding Straight Connector, Panel, Die-cast Screw, PCB Type, Front fastened, With Earth Pin

Male




Female




## Specifications

| Contacts | 3 (2+PE) | 4 (3+PE) | 5 (4+PE) | 6 (5+PE) |
|---|---|---|---|---|
| Certification | | CYJV/CYJV7. E321413 | CYJV2(CYJV8).E321413 | |
| Pin layout(Male) | | | | |
| Pin layout(Female) | | | | |
| Standard | IEC 61076-2-101 | | | |
| Ambient temperature | -25°C ~ +90°C | | | |
| Connector insert | PA | | | |
| Connector contacts | Brass with gold plated | | | |
| Coupling nut/screw | Zinc alloy with nickel plated | | | |
| Seal/O-ring | Epoxy resin / FKM | | | |
| Insulation resistance | ⩾100MΩ | | | |
| Contact resistance | ⩽5mΩ | | | |
| Earth tag/pin | Available | | | |
| IP rating | IP67, IP68 in locked condition | | | |
| Mating endurance | >500 cycles | | | |
| Rated current | 4 A | | 2 A | |
| Rated voltage | 250V AC/DC | | 60V AC/DC | 30V AC/DC |
| Panel cut-out | Refer to page 416 | | | |
| PCB layout | Refer to page 415 | | | |

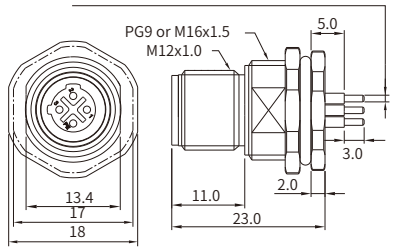
## Part Number

| Pins | Male | Female |
|---|---|---|
| | PG9 | PG9 |
| 3 | MB12MBSCFHD03ST-3 | MB12FBSCFHD03ST-3 |
| 4 | MB12MBSCFHD04ST-3 | MB12FBSCFHD04ST-3 |
| 5 | MB12MBSCFHD05ST-3 | MB12FBSCFHD05ST-3 |
| 6 | MB12MBSCFHD06ST-3 | MB12FBSCFHD06ST-3 |

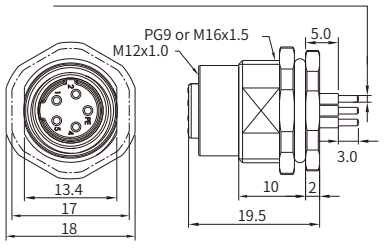
# M12 C-coding (Power)

## M12 C-coding Straight Connector, Panel Mount, PCB Type, Front fastened

Male




Female




## Specifications

| Contacts | 3 (2+PE) | 4 (3+PE) | 5 (4+PE) | 6 (5+PE) |
|---|---|---|---|---|
| Certification | | CYJV/CYJV7. E321413 | CYJV2(CYJV8).E321413 | |
| Pin layout(Male) | | | | |
| Pin layout(Female) | | | | |
| Standard | IEC 61076-2-101 | | | |
| Ambient temperature | -25°C ~ +90°C | | | |
| Connector insert | TPU | | | |
| Connector contacts | Brass with gold plated | | | |
| Coupling nut/screw | Brass with nickel plated | | | |
| Seal/O-ring | Epoxy resin / FKM | | | |
| Insulation resistance | ⩾100MΩ | | | |
| Contact resistance | ⩽5mΩ | | | |
| Earth tag/pin | Unavailable | | | |
| IP rating | IP67, IP68 in locked condition | | | |
| Mating endurance | >500 cycles | | | |
| Rated current | 4 A | | 2 A | |
| Rated voltage | 250V AC/DC | | 60V AC/DC | 30V AC/DC |
| Panel cut-out | Refer to page 416 | | | |
| PCB layout | Refer to page 415 | | | |

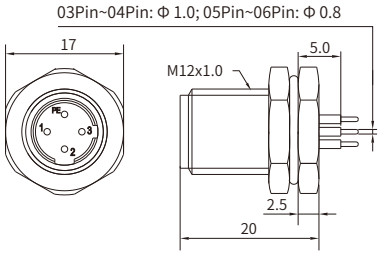
## Part Number

| Pins | Male | | Female | |
|---|---|---|---|---|
| | M16x1.5 | PG9 | M16x1.5 | PG9 |
| 3 | MB12MBCFF03ST-2 | MB12MBCFF03ST-3 | MB12FBCFF03ST-2 | MB12FBCFF03ST-3 |
| 4 | MB12MBCFF04ST-2 | MB12MBCFF04ST-3 | MB12FBCFF04ST-2 | MB12FBCFF04ST-3 |
| 5 | MB12MBCFF05ST-2 | MB12MBCFF05ST-3 | MB12FBCFF05ST-2 | MB12FBCFF05ST-3 |
| 6 | MB12MBCFF06ST-2 | MB12MBCFF06ST-3 | MB12FBCFF06ST-2 | MB12FBCFF06ST-3 |

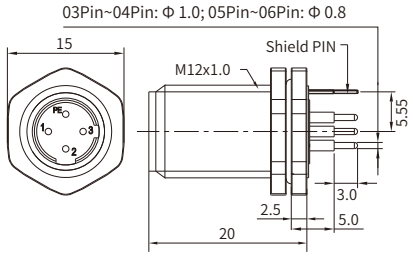
# M12 C-coding (Power)

## M12 C-coding Straight Connector, Panel Mount, PCB Type, M12 thread Front fastened

Male Unshielded




Male Shielded




## Specifications

| Contacts | 3 (2+PE) | 4 (3+PE) | 5 (4+PE) | 6 (5+PE) |
|---|---|---|---|---|
| Certification | | CYJV/CYJV7. E321413 | CYJV2(CYJV8).E321413 | |
| Pin layout(Male) | | | | |
| Standard | IEC 61076-2-101 | | | |
| Ambient temperature | -25°C ~ +90°C | | | |
| Connector insert | TPU | | | |
| Connector contacts | Brass with gold plated | | | |
| Coupling nut/screw | Brass with nickel plated | | | |
| Seal/O-ring | Epoxy resin / FKM | | | |
| Insulation resistance | ⩾100MΩ | | | |
| Contact resistance | ⩽5mΩ | | | |
| Earth tag/pin | Unavailable/Available | | | |
| IP rating | IP67, IP68 in locked condition | | | |
| Mating endurance | >500 cycles | | | |
| Rated current | 4 A | | 2 A | |
| Rated voltage | 250V AC/DC | | 60V AC/DC | 30V AC/DC |
| Panel cut-out | Refer to page 416 | | | |
| PCB layout | Refer to page 415 | | | |

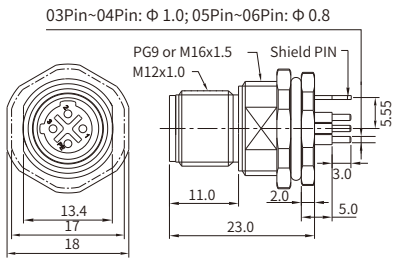
## Part Number

| Pins | Male | |
|---|---|---|
| | Unshielded | Shielded |
| 3 | MB12MBCFF03ST-0 | MB12MBSCFF03ST-0 |
| 4 | MB12MBCFF04ST-0 | MB12MBSCFF04ST-0 |
| 5 | MB12MBCFF05ST-0 | MB12MBSCFF05ST-0 |
| 6 | MB12MBCFF06ST-0 | MB12MBSCFF06ST-0 |

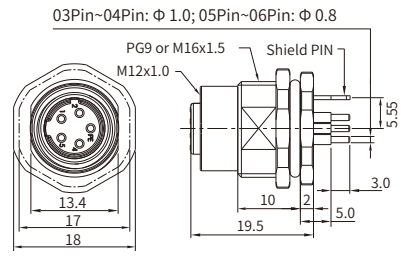
# M12 C-coding (Power)

## M12 C-coding Straight Connector, Panel Mount, PCB Type, Front fastened, With Earth Pin

Male




Female




## Specifications

| Contacts | 3 (2+PE) | 4 (3+PE) | 5 (4+PE) | 6 (5+PE) |
|---|---|---|---|---|
| Certification | cULus LISTED CYJV/CYJV7. E321413 | | c UL us CYJV2(CYJV8).E321413 | |
| Pin layout(Male) | | | | |
| Pin layout(Female) | | | | |
| Standard | IEC 61076-2-101 | | | |
| Ambient temperature | -25°C ~ +90°C | | | |
| Connector insert | PA+GF | | | |
| Connector contacts | Brass with gold plated | | | |
| Coupling nut/screw | Brass with nickel plated | | | |
| Seal/O-ring | Epoxy resin / FKM | | | |
| Insulation resistance | ⩾100MΩ | | | |
| Contact resistance | ⩽5mΩ | | | |
| Earth tag/pin | Available | | | |
| IP rating | IP67, IP68 in locked condition | | | |
| Mating endurance | >500 cycles | | | |
| Rated current | 4 A | | 2 A | |
| Rated voltage | 250V AC/DC | | 60V AC/DC | 30V AC/DC |
| Panel cut-out | Refer to page 416 | | | |
| PCB layout | Refer to page 415 | | | |

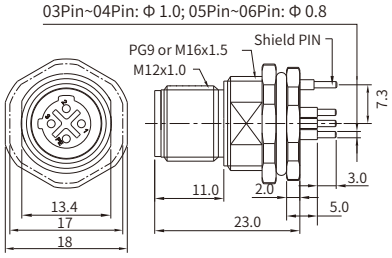
## Part Number

| Pins | Male | | Female | |
|---|---|---|---|---|
| | M16x1.5 | PG9 | M16x1.5 | PG9 |
| 3 | MB12MBSCFF03ST-2 | MB12MBSCFF03ST-3 | MB12FBSCFF03ST-2 | MB12FBSCFF03ST-3 |
| 4 | MB12MBSCFF04ST-2 | MB12MBSCFF04ST-3 | MB12FBSCFF04ST-2 | MB12FBSCFF04ST-3 |
| 5 | MB12MBSCFF05ST-2 | MB12MBSCFF05ST-3 | MB12FBSCFF05ST-2 | MB12FBSCFF05ST-3 |
| 6 | MB12MBSCFF06ST-2 | MB12MBSCFF06ST-3 | MB12FBSCFF06ST-2 | MB12FBSCFF06ST-3 |

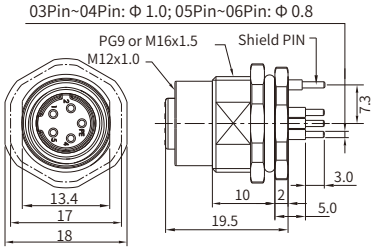
# M12 C-coding (Power)

## M12 C-coding Straight Connector, Panel Mount, PCB Type, Front Fastened, With Circular Earth Pin

Male




Female




CE RoHS

## Specifications

| Contacts | 3 (2+PE) | 4 (3+PE) | 5 (4+PE) | 6 (5+PE) |
|---|---|---|---|---|
| Certification | | cULus LISTED CYJV/CYJV7. E321413 | c UL us CYJV2(CYJV8).E321413 | |
| Pin layout(Male) | | | | |
| Pin layout(Female) | | | | |
| Standard | IEC 61076-2-101 | | | |
| Ambient temperature | -20°C ~ +90°C | | | |
| Connector insert | PA+GF | | | |
| Connector contacts | Brass with gold plated | | | |
| Coupling nut/screw | Brass with nickel plated | | | |
| Seal/O-ring | Epoxy resin / FKM | | | |
| Insulation resistance | ⩾100MΩ | | | |
| Contact resistance | ⩽5mΩ | | | |
| Earth tag/pin | Available | | | |
| IP rating | IP67, IP68 in locked condition | | | |
| Mating endurance | >500 cycles | | | |
| Rated current | 4 A | | 2 A | |
| Rated voltage | 250V AC/DC | | 60V AC/DC | 30V AC/DC |
| Panel cut-out | Refer to page 416 | | | |
| PCB layout | Refer to page 415 | | | |

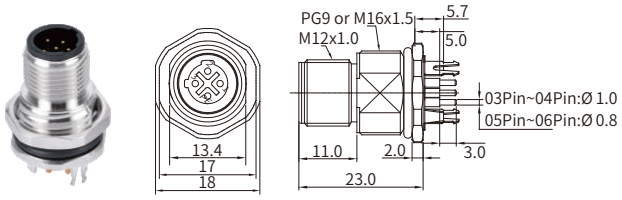
## Part Number

| Pins | Male | | Female | |
|---|---|---|---|---|
| | M16x1.5 | PG9 | M16x1.5 | PG9 |
| 3 | MB12MBSCFF03ST-2-s | MB12MBSCFF03ST-3-s | MB12FBSCFF03ST-2-s | MB12FBSCFF03ST-3-s |
| 4 | MB12MBSCFF04ST-2-s | MB12MBSCFF04ST-3-s | MB12FBSCFF04ST-2-s | MB12FBSCFF04ST-3-s |
| 5 | MB12MBSCFF05ST-2-s | MB12MBSCFF05ST-3-s | MB12FBSCFF05ST-2-s | MB12FBSCFF05ST-3-s |
| 6 | MB12MBSCFF06ST-2-s | MB12MBSCFF06ST-3-s | MB12FBSCFF06ST-2-s | MB12FBSCFF06ST-3-s |

# M12 C-coding (Power)

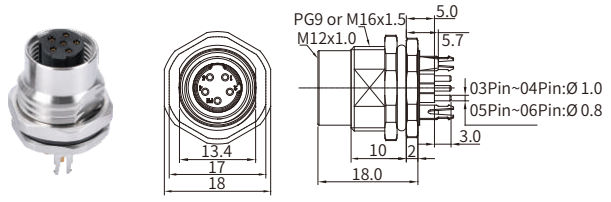
## M12 C-coding Straight Connector, Panel Mount, PCB Type, Front fastened, With Earth Pin

Male




CE RoHS

Female




CE RoHS

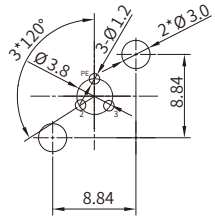
## Specifications

| Contacts | 3 (2+PE) | 4 (3+PE) | 5 (4+PE) | 6 (5+PE) |
|---|---|---|---|---|
| Pin layout(Male) | | | | |
| Pin layout(Female) | | | | |
| Standard | IEC 61076-2-101 | | | |
| Ambient temperature | -25°C ~ +90°C | | | |
| Connector insert | PA+GF | | | |
| Connector contacts | Brass with gold plated | | | |
| Coupling nut/screw | Brass with nickel plated | | | |
| Seal/O-ring | Epoxy resin / FKM | | | |
| Insulation resistance | ⩾100MΩ | | | |
| Contact resistance | ⩽5mΩ | | | |
| Earth tag/pin | Available | | | |
| IP rating | IP67, IP68 in locked condition | | | |
| Mating endurance | >500 cycles | | | |
| Rated current | 4 A | | 2 A | |
| Rated voltage | 250V AC/DC | | 60V AC/DC | 30V AC/DC |

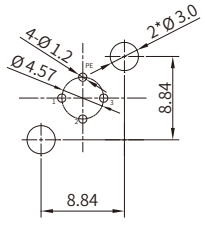
## Part Number

| Pins | Male | | Female | |
|---|---|---|---|---|
| | M16x1.5 | PG9 | M16x1.5 | PG9 |
| 3 | MB12MBSCFF03ST-2 | MB12MBSCFF03ST-3 | MB12FBSCFF03ST-2 | MB12FBSCFF03ST-3 |
| 4 | MB12MBSCFF04ST-2 | MB12MBSCFF04ST-3 | MB12FBSCFF04ST-2 | MB12FBSCFF04ST-3 |
| 5 | MB12MBSCFF05ST-2 | MB12MBSCFF05ST-3 | MB12FBSCFF05ST-2 | MB12FBSCFF05ST-3 |
| 6 | MB12MBSCFF06ST-2 | MB12MBSCFF06ST-3 | MB12FBSCFF06ST-2 | MB12FBSCFF06ST-3 |

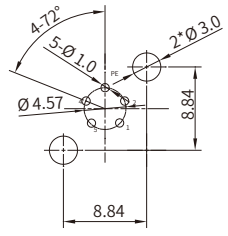
## PCB layout



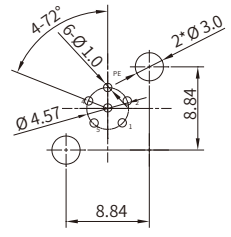

Male PIN OD:1.0
3P



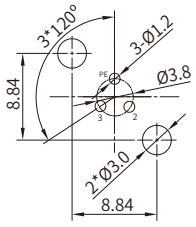

Male PIN OD:1.0
4P



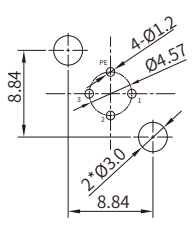

Male PIN OD:0.8
5P



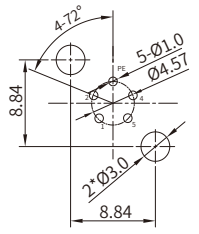

Male PIN OD:0.8
6P



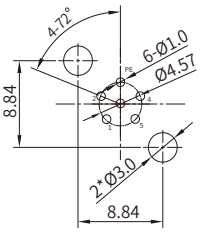

Female PIN OD:1.0
3P




Female PIN OD:1.0
4P




Female PIN OD:0.8
5P

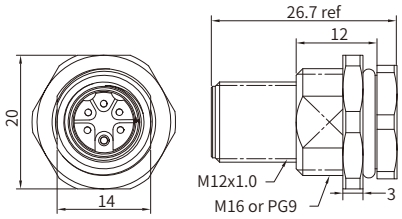



Female PIN OD:0.8
6P

# M12 M-coding (Power)

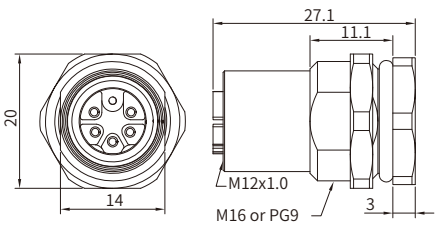
## M12 M-coding Straight Connector, Panel Mount, Solder&Crimp, Front fastened

Male




CE RoHS IP68

Female




CE RoHS IP68

## Specifications

| Contacts | 6 (5+PE) |
|---|---|
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-111 |
| Ambient temperature | -20°C~ + 80°C( flexible installation)/-40°C~ + 80°C( fixed installation) |
| Connector insert | PA + GF |
| Connector contacts | Brass with nickel plated |
| Connector overmold | TPU |
| Coupling nut/screw: | Brass with nickel plated |
| Seal / O-ring | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Shielding | Unavailable |
| IP rating | IP67, IP68 in locked condition |
| Rated current | 8 A |
| Rated voltage | 630V AC/DC |
| Wire gauge | 1.5mm$^2$(AWG16) |
| Panel cut-out | Refer to page 416 |

## Part Number

| Pins | Cable length | Connection Type | Male | | Female | |
|---|---|---|---|---|---|---|
| | | | M16x1.5 | PG9 | M16x1.5 | PG9 |
| 6 | 0.1m | Solder | MB12MSMFF06ST-215001 | MB12MSMFF06ST-315001 | MB12FSMFF06ST-215001 | MB12FSMFF06ST-315001 |
| | 0.3m | | MB12MSMFF06ST-215003 | MB12MSMFF06ST-315003 | MB12FSMFF06ST-215003 | MB12FSMFF06ST-315003 |
| | 0.1m | Crimp | MB12MCMFF06ST-215001 | MB12MCMFF06ST-315001 | MB12FCMFF06ST-215001 | MB12FCMFF06ST-315001 |
| | 0.3m | | MB12MCMFF06ST-215003 | MB12MCMFF06ST-315003 | MB12FCMFF06ST-215003 | MB12FCMFF06ST-315003 |

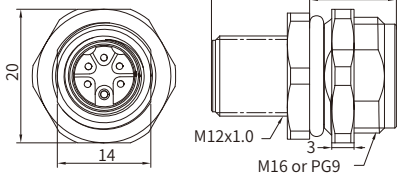
## Default wire colors

| Pin No. | |
|---|---|
| Pin 1 | BN |
| Pin 2 | WH |
| Pin 3 | BU |
| Pin 4 | BK |
| Pin 5 | GY |
| Pin 6 | YE/GN |

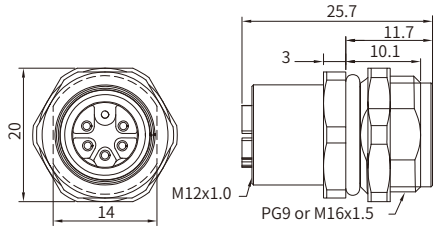
# M12 M-coding (Power)

## M12 M-coding Straight Connector, Panel Mount, Solder&Crimp, Rear fastened

Male




Female




CE RoHS IP68

CE RoHS IP68

## Specifications

| Contacts | 6 (5+PE) |
|---|---|
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-111 |
| Ambient temperature | -20°C~ + 80°C( flexible installation)/-40°C~ + 80°C( fixed installation) |
| Connector insert | PA + GF |
| Connector contacts | Brass with nickel plated |
| Connector overmold | TPU |
| Coupling nut/screw: | Brass with nickel plated |
| Seal / O-ring | FKM |
| Insulation resistance | ≥100MΩ |
| Contact resistance | ≤5mΩ |
| Shielding | Unavailable |
| IP rating | IP67, IP68 in locked condition |
| Rated current | 8 A |
| Rated voltage | 630V AC/DC |
| Wire gauge | 1.5mm$^2$(AWG16) |
| Panel cut-out | Refer to page 416 |

## Part Number

| Pins | Cable length | Connection Type | 公头 | | 母头 | |
|---|---|---|---|---|---|---|
| | | | M16x1.5 | PG9 | M16x1.5 | PG9 |
| 6 | 0.1m | Solder | MB12MSMRF06ST-215001 | MB12MSMRF06ST-315001 | MB12FSMRF06ST-215001 | MB12FSMRF06ST-315001 |
| | 0.3m | | MB12MSMRF06ST-215003 | MB12MSMRF06ST-315003 | MB12FSMRF06ST-215003 | MB12FSMRF06ST-315003 |
| | 0.1m | Crimp | MB12MCMRF06ST-215001 | MB12MCMRF06ST-315001 | MB12FCMRF06ST-215001 | MB12FCMRF06ST-315001 |
| | 0.3m | | MB12MCMRF06ST-215003 | MB12MCMRF06ST-315003 | MB12FCMRF06ST-215003 | MB12FCMRF06ST-315003 |

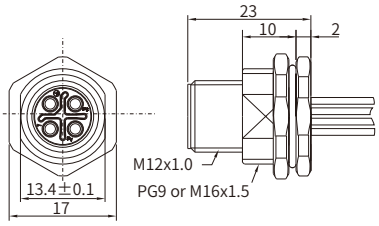
## Default wire colors

| Pin No. | |
|---|---|
| Pin 1 | BN |
| Pin 2 | WH |
| Pin 3 | BU |
| Pin 4 | BK |
| Pin 5 | GY |
| Pin 6 | YE/GN |

# M12 S-coding (Power AC)

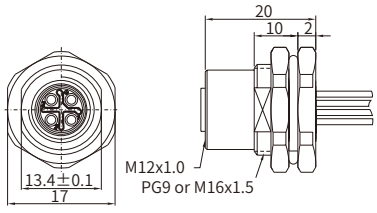
## M12 S-coding Straight Connector, Panel Mount, Solder&Crimp, Front fastened

Male




CE RoHS IP68

Female




CE RoHS IP68

## Specifications

| | |
|---|---|
| Contacts | 4(3+PE) |
| Certification | cULus LISTED PVVA(PVVA7).E496340 |
| Pin layout(Male) | |
| Pin layout(Female) | |
| Ambient temperature | -15°C~+85°C (flexible installation), -30°C~+85°C (fixed installation) |
| Customized temperature | -25°C ~ +85°C (flexible installation), -40°C ~ +85°C (fixed installation) |
| Connector insert | PA |
| Connector contacts | Brass with gold plated |
| Coupling nut/screw | Brass with nickel plated |
| Seal/O-ring | Epoxy resin / FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Earth tag/pin | Unavailable |
| IP rating | IP67, IP68 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 12 A(40°C) |
| Rated voltage | 630V AC/DC |
| Wire gauge | 1.5mm²(AWG16) |
| Panel cut-out | Refer to page 416 |

## Part Number

| Pins | Cable length | Connection Type | Male | | Female | |
|---|---|---|---|---|---|---|
| | | | M16x1.5 | PG9 | M16x1.5 | PG9 |
| 4 | 0.1m | Solder | MB12MSSFF04ST-215001 | MB12MSSFF04ST-315001 | MB12FSSFF04ST-215001 | MB12FSSFF04ST-315001 |
| | 0.3m | | MB12MSSFF04ST-215003 | MB12MSSFF04ST-315003 | MB12FSSFF04ST-215003 | MB12FSSFF04ST-315003 |
| | 0.1m | Crimp | MB12MCSFF04ST-215001 | MB12MCSFF04ST-315001 | MB12FCSFF04ST-215001 | MB12FCSFF04ST-315001 |
| | 0.3m | | MB12MCSFF04ST-215003 | MB12MCSFF04ST-315003 | MB12FCSFF04ST-215003 | MB12FCSFF04ST-315003 |

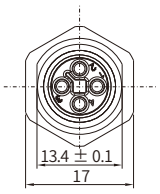
## Default wire colors

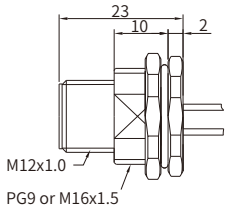
| Pin No. | | |
|---|---|---|
| Pin 1 | BN | RD |
| Pin 2 | BK | WH |
| Pin 3 | BU | GN |
| ⏚ | YE/GN | YE/GN |

# M12 T-coding (Power DC)

## M12 T-coding Straight Connector, Panel Mount, Solder&Crimp, Front fastened

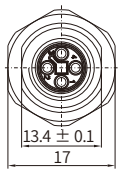
Male

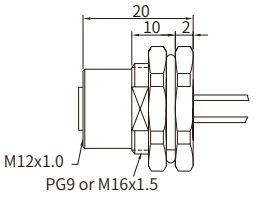



CE RoHS

Female




CE RoHS

## Specifications

| | |
|---|---|
| Contacts | 4 |
| Certification | PVVA(PVVA7).E496340 |
| Pin layout(Male) | |
| Pin layout(Female) | |
| Ambient temperature | -15°C~+85°C (flexible installation), -30°C~+85°C (fixed installation) |
| Customized temperature | -25°C ~ +85°C (flexible installation), -40°C ~ +85°C (fixed installation) |
| Connector insert | PA |
| Connector contacts | Brass with gold plated |
| Coupling nut/screw | Brass with nickel plated |
| Seal/O-ring | Epoxy resin / FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Earth tag/pin | Unavailable |
| IP rating | IP67, IP68 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 12 A(40°C) |
| Rated voltage | 63V AC/DC |
| Wire gauge | 1.5mm$^2$(AWG16) |
| Panel cut-out | Refer to page 416 |

## Part Number

| Pins | Cable length | Connection Type | Male | | Female | |
|---|---|---|---|---|---|---|
| | | | M16x1.5 | PG9 | M16x1.5 | PG9 |
| 4 | 0.1m | Solder | MB12MSTFF04ST-215001 | MB12MSTFF04ST-315001 | MB12FSTFF04ST-215001 | MB12FSTFF04ST-315001 |
| | 0.3m | | MB12MSTFF04ST-215003 | MB12MSTFF04ST-315003 | MB12FSTFF04ST-215003 | MB12FSTFF04ST-315003 |
| | 0.1m | Crimp | MB12MCTFF04ST-215001 | MB12MCTFF04ST-315001 | MB12FCTFF04ST-215001 | MB12FCTFF04ST-315001 |
| | 0.3m | | MB12MCTFF04ST-215003 | MB12MCTFF04ST-315003 | MB12FCTFF04ST-215003 | MB12FCTFF04ST-315003 |

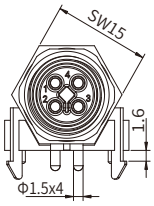
## Default wire colors

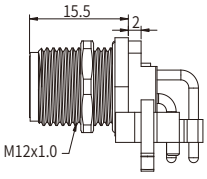
| Pin No. | | |
|---|---|---|
| Pin 1 | BN | RD |
| Pin 2 | BK | WH |
| Pin 3 | BU | GN |
| ⏚ | YE/GN | YE/GN |

# M12 T-coding (Power DC)

## M12 T-coding Angled Connector, Panel Mount, PCB Type, Front fastened

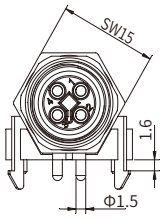
Male

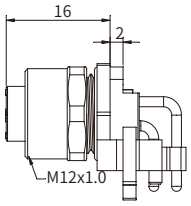



CE RoHS

Female




CE RoHS

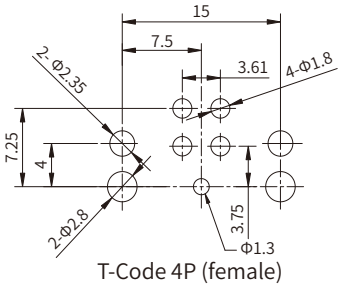
## Specifications

| Contacts | 4 |
|---|---|
| Certification | PVVA(PVVA7).E496340 |
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-111 |
| Ambient temperature | -25°C ~ +90°C |
| Connector insert | PA+GF |
| Connector contacts | Brass with gold plated |
| Coupling nut/screw | Brass with nickel plated |
| Seal/O-ring | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Earth tag/pin | Unavailable / Available |
| IP rating | IP67, IP68 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 12 A(40°C) |
| Rated voltage | 63V AC/DC |
| Panel cut-out | Refer to page 416 |

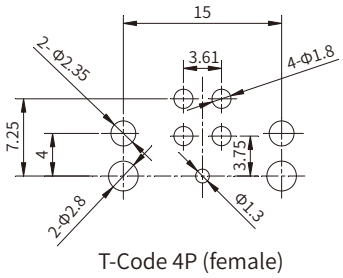
## Part Number

| Pins | Male | | Female | |
|---|---|---|---|---|
| | Unshielded | Shielded | Unshielded | Shielded |
| 4 | MB12MBTFF04RA-0 | MB12MBSTFF04RA-0 | MB12FBTFF04RA-0 | MB12FBSTFF04RA-0 |

## PCB Layout




T-Code 4P (female)

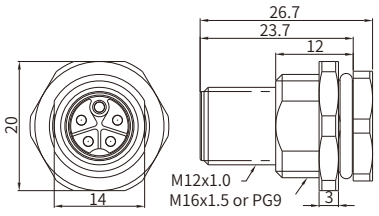



T-Code 4P (female)

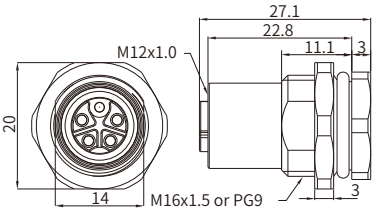
# M12 K-coding (Power AC)

## M12 K-coding Straight Connector, Panel, Solder & Crimp, Front fastened

Male




Female




## Specifications

| Contacts | 5(4+PE) |
|---|---|
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-111 |
| Ambient temperature | -15°C~+85°C (flexible installation), -30°C~+85°C (fixed installation) |
| Customized temperature | -25°C ~ +85°C (flexible installation), -40°C ~ +85°C (fixed installation) |
| Connector insert | PA |
| Connector contacts | Brass with gold plated |
| Coupling nut/screw | Brass with nickel plated |
| Seal/O-ring | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽8mΩ |
| Earth tag/pin | Unavailable |
| IP rating | IP67, IP68 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 12 A |
| Rated voltage | 630V |
| Wire gauge | 2.0mm$^2$(AWG14) |
| Panel cut-out | Refer to page 416 |

## Part Number

| Pins | Terminal Type | Cable length | Male | | Female | |
|---|---|---|---|---|---|---|
| | | | M16x1.5 | PG9 | M16x1.5 | PG9 |
| 5 | Solder | 0.1m | MB12MSKFF05ST-220001 | MB12MSKFF05ST-320001 | MB12FSKFF05ST-220001 | MB12FSKFF05ST-320001 |
| | | 0.3m | MB12MSKFF05ST-220003 | MB12MSKFF05ST-320003 | MB12FSKFF05ST-220003 | MB12FSKFF05ST-320003 |
| | Crimp | 0.1m | MB12MCKFF05ST-220001 | MB12MCKFF05ST-320001 | MB12FCKFF05ST-220001 | MB12FCKFF05ST-320001 |
| | | 0.3m | MB12MCKFF05ST-220003 | MB12MCKFF05ST-320003 | MB12FCKFF05ST-220003 | MB12FCKFF05ST-320003 |

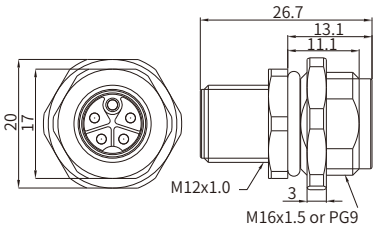
## Default wire colors

| Pin No. | |
|---|---|
| Pin 1 | BN |
| Pin 2 | WH |
| Pin 3 | BU |
| Pin 4 | BK |
| Pin 5 | YU/GN |

# M12 K-coding (Power AC)

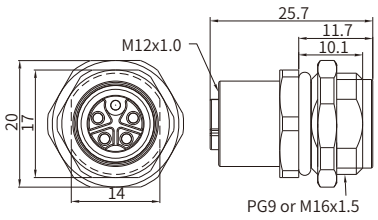
## M12 K-coding Straight Connector, Panel, Solder & Crimp, Rear fastened

Male




CE RoHS

Female




CE RoHS

## Specifications

| Contacts | 5(4+PE) |
|---|---|
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-111 |
| Ambient temperature | -15°C~+85°C (flexible installation), -30°C~+85°C (fixed installation) |
| Customized temperature | -25°C ~ +85°C (flexible installation), -40°C ~ +85°C (fixed installation) |
| Connector insert | PA |
| Connector contacts | Brass with gold plated |
| Coupling nut/screw | Brass with nickel plated |
| Seal/O-ring | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Earth tag/pin | Unavailable |
| IP rating | IP67, IP68 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 12 A |
| Rated voltage | 630V |
| Wire gauge | 2.0mm$^2$(AWG14) |
| Panel cut-out | Refer to page 416 |

## Part Number

| Pins | Terminal Type | Cable length | Male | | Female | |
|---|---|---|---|---|---|---|
| | | | M16x1.5 | PG9 | M16x1.5 | PG9 |
| 5 | Solder | 0.1m | MB12MSKRF05ST-220001 | MB12MSKRF05ST-320001 | MB12FSKRF05ST-220001 | MB12FSKRF05ST-320001 |
| | | 0.3m | MB12MSKRF05ST-220003 | MB12MSKRF05ST-320003 | MB12FSKRF05ST-220003 | MB12FSKRF05ST-320003 |
| | Crimp | 0.1m | MB12MCKRF05ST-220001 | MB12MCKRF05ST-320001 | MB12FCKRF05ST-220001 | MB12FCKRF05ST-320001 |
| | | 0.3m | MB12MCKRF05ST-220003 | MB12MCKRF05ST-320003 | MB12FCKRF05ST-220003 | MB12FCKRF05ST-320003 |

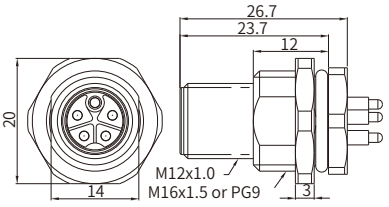
## Default wire colors

| Pin No. | |
|---|---|
| Pin 1 | BN |
| Pin 2 | WH |
| Pin 3 | BU |
| Pin 4 | BK |
| Pin 5 | YU/GN |

# M12 K-coding (Power AC)

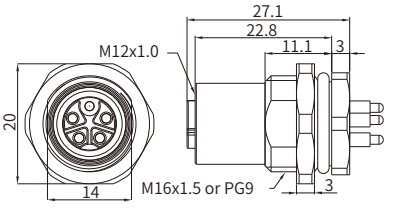
## M12 K-coding Straight Connector, Panel, PCB Type, Front fastened

Male




CE RoHS IP68

Female




CE RoHS IP68

## Specifications

| Contacts | 5(4+PE) |
|---|---|
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-111 |
| Ambient temperature | -40°C ~ +80°C(fixed installation) -20°C ~ +80°C(flexible installation) |
| Connector insert | PA |
| Connector contacts | Brass with gold plated |
| Coupling nut/screw | Brass with nickel plated |
| Seal/O-ring | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Earth tag/pin | Unavailable |
| IP rating | IP67, IP68 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 12 A |
| Rated voltage | 630V |
| Panel cut-out | Refer to page 416 |
| PCB layout | Refer to page 415 |

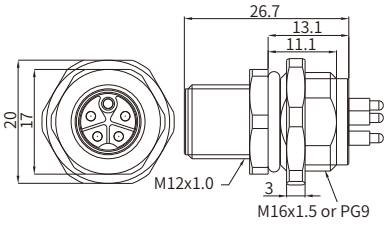
## Part Number

| Pins | Male | | Female | |
|---|---|---|---|---|
| | M16x1.5 | PG9 | M16x1.5 | PG9 |
| 5 | MB12MBKFF05ST-2 | MB12MBKFF05ST-3 | MB12FBKFF05ST-2 | MB12FBKFF05ST-3 |

# M12 K-coding (Power AC)

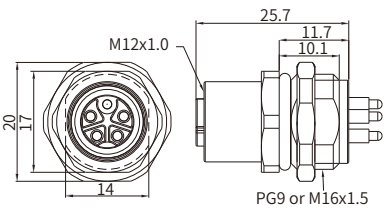
## M12 K-coding Straight Connector, Panel, PCB Type, Rear fastened

Male




CE RoHS

Female




CE RoHS

## Specifications

| Contacts | 5(4+PE) |
|---|---|
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-111 |
| Ambient temperature | -40°C ~ +80°C(fixed installation) -20°C ~ +80°C(flexible installation) |
| Connector insert | PA |
| Connector contacts | Brass with gold plated |
| Coupling nut/screw | Brass with nickel plated |
| Seal/O-ring | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Earth tag/pin | Unavailable |
| IP rating | IP67, IP68 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 12 A |
| Rated voltage | 630V |
| Panel cut-out | Refer to page 416 |
| PCB layout | Refer to page 415 |

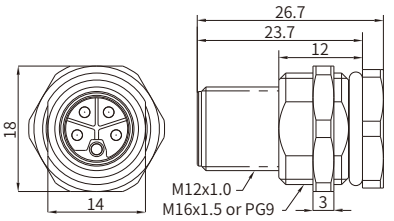
## Part Number

| Pins | Male | | Female | |
|---|---|---|---|---|
| | M16x1.5 | PG9 | M16x1.5 | PG9 |
| 5 | MB12MBKRF05ST-2 | MB12MBKRF05ST-3 | MB12FBKRF05ST-2 | MB12FBKRF05ST-3 |

# M12 L-coding (Power DC)

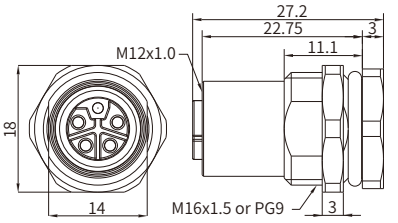
## M12 L-coding Straight Connector, Panel, Solder & Crimp, Front fastened

Male




CE RoHS IP68

Female




CE RoHS IP68

## Specifications

| | |
|---|---|
| Contacts | 5(4+PE) |
| Certification | cULus LISTED PVVA(PVVA7).E496340 |
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-111 |
| Ambient temperature | -15°C~+85°C (flexible installation), -30°C~+85°C (fixed installation) |
| Customized temperature | -25°C ~ +85°C (flexible installation), -40°C ~ +85°C (fixed installation) |
| Connector insert | PA |
| Connector contacts | Brass with gold plated |
| Coupling nut/screw | Brass with nickel plated |
| Seal/O-ring | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Earth tag/pin | Unavailable |
| IP rating | IP67, IP68 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 16 A |
| Rated voltage | 63V |
| Wire gauge | 2.0mm² (AWG14) |
| Panel cut-out | Refer to page 416 |

## Part Number

| Pins | Terminal Type | Cable length | Male | | Female | |
|---|---|---|---|---|---|---|
| | | | M16x1.5 | PG9 | M16x1.5 | PG9 |
| 5 | Solder | 0.1m | MB12MSLFF05ST-220001 | MB12MSLFF05ST-320001 | MB12FSLFF05ST-220001 | MB12FSLFF05ST-320001 |
| | | 0.3m | MB12MSLFF05ST-220003 | MB12MSLFF05ST-320003 | MB12FSLFF05ST-220003 | MB12FSLFF05ST-320003 |
| | Crimp | 0.1m | MB12MCLFF05ST-220001 | MB12MCLFF05ST-320001 | MB12FCLFF05ST-220001 | MB12FCLFF05ST-320001 |
| | | 0.3m | MB12MCLFF05ST-220003 | MB12MCLFF05ST-320003 | MB12FCLFF05ST-220003 | MB12FCLFF05ST-320003 |

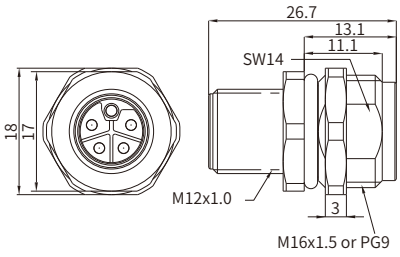
## Default wire colors

| Pin No. | |
|---|---|
| Pin 1 | BN |
| Pin 2 | WH |
| Pin 3 | BU |
| Pin 4 | BK |
| Pin 5 | YU/GN |

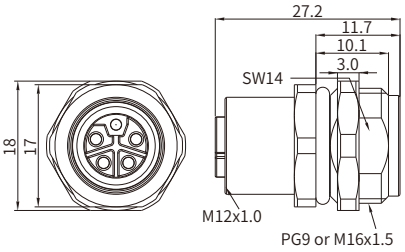
# M12 L-coding (Power DC)

## M12 L-coding Straight Connector, Panel, Solder & Crimp, Rear fastened

Male




Female




## Specifications

| | |
|---|---|
| Contacts | 5(4+PE) |
| Certification | PVVA(PVVA7).E496340 |
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-111 |
| Ambient temperature | -15°C~+85°C (flexible installation), -30°C~+85°C (fixed installation) |
| Customized temperature | -25°C ~ +85°C (flexible installation), -40°C ~ +85°C (fixed installation) |
| Connector insert | PA |
| Connector contacts | Brass with gold plated |
| Coupling nut/screw | Brass with nickel plated |
| Seal/O-ring | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Earth tag/pin | Unavailable |
| IP rating | IP67, IP68 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 16 A |
| Rated voltage | 63V |
| Wire gauge | max. 2.0mm$^2$ (max.AWG14) |
| Panel cut-out | Refer to page 416 |

## Part Number

| Pins | Terminal Type | Cable length | Male | | Female | |
|---|---|---|---|---|---|---|
| | | | M16x1.5 | PG9 | M16x1.5 | PG9 |
| 5 | Solder | 0.1m | MB12MSLRF05ST-220001 | MB12MSLRF05ST-320001 | MB12FSLRF05ST-220001 | MB12FSLRF05ST-320001 |
| | | 0.3m | MB12MSLRF05ST-220003 | MB12MSLRF05ST-320003 | MB12FSLRF05ST-220003 | MB12FSLRF05ST-320003 |
| | Crimp | 0.1m | MB12MCLRF05ST-220001 | MB12MCLRF05ST-320001 | MB12FCLRF05ST-220001 | MB12FCLRF05ST-320001 |
| | | 0.3m | MB12MCLRF05ST-220003 | MB12MCLRF05ST-320003 | MB12FCLRF05ST-220003 | MB12FCLRF05ST-320003 |

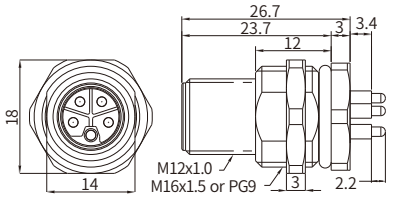
## Default wire colors

| Pin No. | |
|---|---|
| Pin 1 | BN |
| Pin 2 | WH |
| Pin 3 | BU |
| Pin 4 | BK |
| Pin 5 | YU/GN |

# M12 L-coding (Power DC)

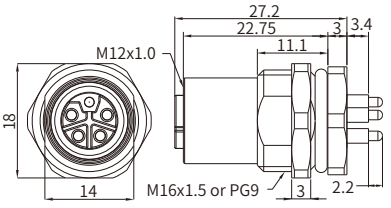
## M12 L-coding Straight Connector, Panel, PCB Type, Front fastened

Male




CE RoHS IP68

Female




CE RoHS IP68

## Specifications

| | |
|---|---|
| Contacts | 5(4+PE) |
| Certification | cULus LISTED PVVA(PVVA7).E496340 |
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-111 |
| Ambient temperature | -40°C ~ +80°C(fixed installation) -20°C ~ +80°C(flexible installation) |
| Connector insert | PA |
| Connector contacts | Brass with gold plated |
| Coupling nut/screw | Brass with nickel plated |
| Seal/O-ring | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Earth tag/pin | Unavailable |
| IP rating | IP67, IP68 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 16 A |
| Rated voltage | 63V |
| Panel cut-out | Refer to page 416 |
| PCB layout | Refer to page 415 |

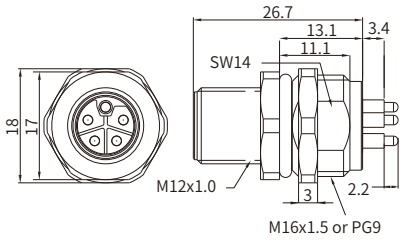
## Part Number

| Pins | Male | | Female | |
|---|---|---|---|---|
| | M16x1.5 | PG9 | M16x1.5 | PG9 |
| 5 | MB12MBLFF05ST-2 | MB12MBLFF05ST-3 | MB12FBLFF05ST-2 | MB12FBLFF05ST-3 |

# M12 L-coding (Power DC)

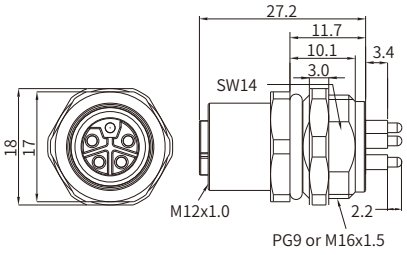
## M12 L-coding Straight Connector, Panel, PCB Type, Rear fastened

Male




CE RoHS IP68

Female




CE RoHS IP68

## Specifications

| | |
|---|---|
| Contacts | 5(4+PE) |
| Certification | PVVA(PVVA7).E496340 |
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-111 |
| Ambient temperature | -40°C ~ +80°C(fixed installation) -20°C ~ +80°C(flexible installation) |
| Connector insert | PA |
| Connector contacts | Brass with gold plated |
| Coupling nut/screw | Brass with nickel plated |
| Seal/O-ring | FKM |
| Insulation resistance | ≥100MΩ |
| Contact resistance | ≤5mΩ |
| Earth tag/pin | Unavailable |
| IP rating | IP67, IP68 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 16 A |
| Rated voltage | 63V |
| Panel cut-out | Refer to page 416 |
| PCB layout | Refer to page 415 |

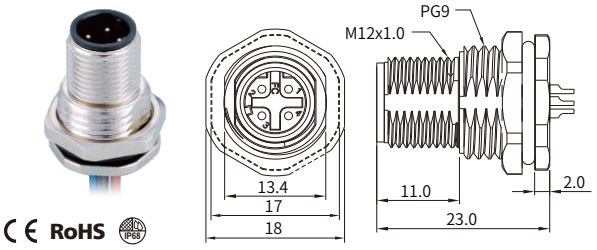
## Part Number

| Pins | Male | | Female | |
|---|---|---|---|---|
| | M16x1.5 | PG9 | M16x1.5 | PG9 |
| 5 | MB12MBLRF05ST-2 | MB12MBLRF05ST-3 | MB12FBLRF05ST-2 | MB12FBLRF05ST-3 |

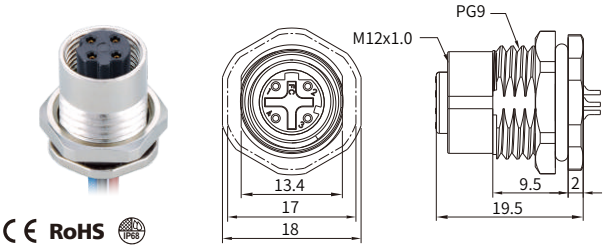
# M12 D-coding (Ethernet)

## M12 D-coding Straight Connector, Panel Mount, Die-cast Screw, Solder, Front fastened

Male




Female




## Specifications

| Contacts | 4 |
|---|---|
| Certification | CYJV2(CYJV8).E321413 CYJV(CYJV7).E321413 |
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-101 |
| Ambient temperature | -15°C~+85°C (flexible installation), -30°C~+85°C (fixed installation) |
| Customized temperature | -25°C ~ +85°C (flexible installation), -40°C ~ +85°C (fixed installation) |
| Connector insert | PA |
| Connector contacts | Brass with gold plated |
| Coupling nut/screw | Zinc alloy with nickel plated |
| Seal/O-ring | Epoxy resin / FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Earth tag/pin | Unavailable |
| IP rating | IP67, IP68 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 4 A |
| Rated voltage | 250V AC/DC |
| Wire gauge | 0.34mm² (AWG22) |
| Panel cut-out | Refer to page 416 |

## Part Number

| Pins | Cable length | Male | Female |
|---|---|---|---|
| | | PG9 | PG9 |
| 4 | 0.1m | MB12MSDFHD04ST-33401 | MB12FSDFHD04ST-33401 |
| | 0.3m | MB12MSDFHD04ST-33403 | MB12FSDFHD04ST-33403 |

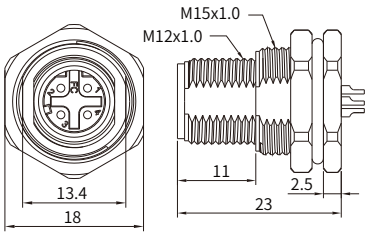
## Default wire colors

| Pin No. | | |
|---|---|---|
| Pin 1 | BN | WH/OR |
| Pin 2 | WH | WH/GN |
| Pin 3 | BU | OR |
| Pin 4 | BK | GN |

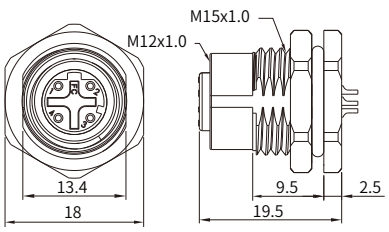
# M12 D-coding (Ethernet)

## M12 D-coding Straight Connector, Panel Mount, Plastic Solder, Front fastened

Male




Female




## Specifications

| Contacts | 4 |
|---|---|
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-101 |
| Ambient temperature | -15°C~+85°C (flexible installation), -30°C~+85°C (fixed installation) |
| Customized temperature | -25°C ~ +85°C (flexible installation), -40°C ~ +85°C (fixed installation) |
| Connector insert | PA |
| Connector contacts | Brass with gold plated |
| Coupling nut/screw | PA+GF |
| Seal/O-ring | Epoxy resin / FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Earth tag/pin | Unavailable |
| IP rating | IP67, IP68 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 4 A |
| Rated voltage | 250V AC/DC |
| Wire gauge | 0.34mm$^2$(AWG22) |
| Panel cut-out | Refer to page 416 |

## Part Number

| Pins | Cable length | Male M15x1.0 | Female M15x1.0 |
|---|---|---|---|
| 4 | 0.1m | MB12MSDFP04ST-13401 | MB12FSDFP04ST-13401 |
| | 0.3m | MB12MSDFP04ST-13403 | MB12FSDFP04ST-13403 |

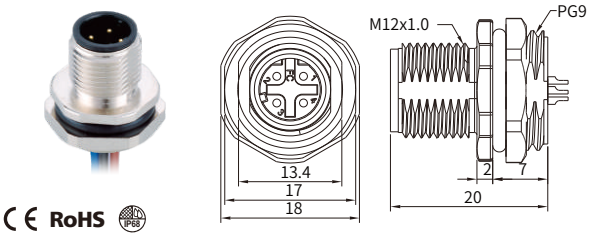
## Default wire colors

| Pin No. | | |
|---|---|---|
| Pin 1 | BN | WH/OR |
| Pin 2 | WH | WH/GN |
| Pin 3 | BU | OR |
| Pin 4 | BK | GN |

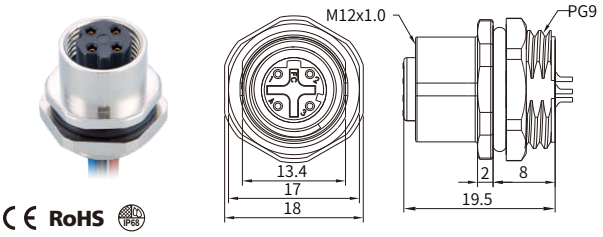
# M12 D-coding (Ethernet)

## M12 D-coding Straight Connector, Panel Mount, Die-cast Screw, Solder, Rear fastened

Male




Female




## Specifications

| | |
|---|---|
| Contacts | 4 |
| Certification | CYJV2(CYJV8).E321413 CYJV(CYJV7).E321413 |
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-101 |
| Ambient temperature | -15°C~+85°C (flexible installation), -30°C~+85°C (fixed installation) |
| Customized temperature | -25°C ~ +85°C (flexible installation), -40°C ~ +85°C (fixed installation) |
| Connector insert | PA |
| Connector contacts | Brass with gold plated |
| Coupling nut/screw | Zinc alloy with nickel plated |
| Seal/O-ring | Epoxy resin / FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Earth tag/pin | Unavailable |
| IP rating | IP67, IP68 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 4 A |
| Rated voltage | 250V AC/DC |
| Wire gauge | 0.34mm$^2$ (AWG22) |
| Panel cut-out | Refer to page 416 |

## Part Number

| Pins | Cable length | Male | Female |
|---|---|---|---|
| | | PG9 | PG9 |
| 4 | 0.1m | MB12MSDRHD04ST-33401 | MB12FSDRHD04ST-33401 |
| | 0.3m | MB12MSDRHD04ST-33403 | MB12FSDRHD04ST-33403 |

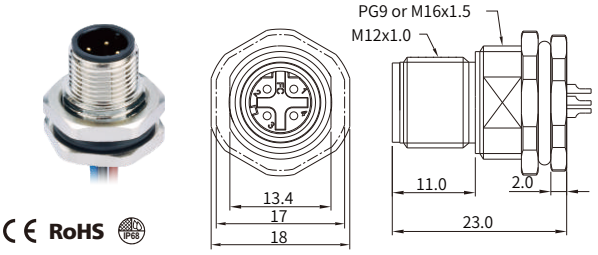
## Default wire colors

| Pin No. | | |
|---|---|---|
| Pin 1 | BN | WH/OR |
| Pin 2 | WH | WH/GN |
| Pin 3 | BU | OR |
| Pin 4 | BK | GN |

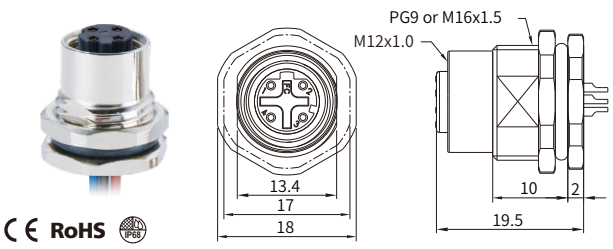
# M12 D-coding (Ethernet)

## M12 D-coding Straight Connector, Panel Mount, Solder, Front fastened

Male




Female




## Specifications

| Contacts | 4 |
|---|---|
| Certification | CYJV2(CYJV8).E321413 CYJV(CYJV7).E321413 |
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-101 |
| Ambient temperature | -15°C~+85°C (flexible installation), -30°C~+85°C (fixed installation) |
| Customized temperature | -25°C ~ +85°C (flexible installation), -40°C ~ +85°C (fixed installation) |
| Connector insert | PA |
| Connector contacts | Brass with gold plated |
| Coupling nut/screw | Brass with nickel plated |
| Seal/O-ring | Epoxy resin / FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Earth tag/pin | Unavailable |
| IP rating | IP67, IP68 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 4 A |
| Rated voltage | 250V AC/DC |
| Wire gauge | 0.34mm$^2$(AWG22) |
| Panel cut-out | Refer to page 416 |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | M16x1.5 | PG9 | M16x1.5 | PG9 |
| 4 | 0.1m | MB12MSDFF04ST-23401 | MB12MSDFF04ST-33401 | MB12FSDFF04ST-23401 | MB12FSDFF04ST-33401 |
| | 0.3m | MB12MSDFF04ST-23403 | MB12MSDFF04ST-33403 | MB12FSDFF04ST-23403 | MB12FSDFF04ST-33403 |

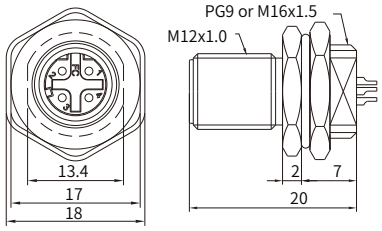
## Default wire colors

| Pin No. | | |
|---|---|---|
| Pin 1 | BN | WH/OR |
| Pin 2 | WH | WH/GN |
| Pin 3 | BU | OR |
| Pin 4 | BK | GN |

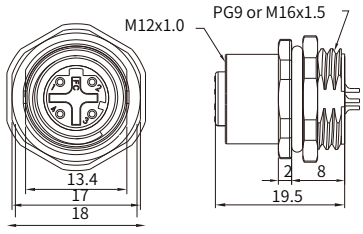
# M12 D-coding (Ethernet)

## M12 D-coding Straight Connector, Panel Mount, Solder, Rear fastened

Male




Female




## Specifications

| | |
|---|---|
| Contacts | 4 |
| Certification | CYJV2(CYJV8).E321413 CYJV(CYJV7).E321413 |
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-101 |
| Ambient temperature | -15°C~+85°C (flexible installation), -30°C~+85°C (fixed installation) |
| Customized temperature | -25°C ~ +85°C (flexible installation), -40°C ~ +85°C (fixed installation) |
| Connector insert | TPU |
| Connector contacts | Brass with gold plated |
| Coupling nut/screw | Brass with nickel plated |
| Seal/O-ring | Epoxy resin / FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Earth tag/pin | Unavailable |
| IP rating | IP67, IP68 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 4 A |
| Rated voltage | 250V AC/DC |
| Wire gauge | 0.34mm² (AWG22) |
| Panel cut-out | Refer to page 416 |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | M16x1.5 | PG9 | M16x1.5 | PG9 |
| 4 | 0.1m | MB12MSDRF04ST-23401 | MB12MSDRF04ST-33401 | MB12FSDRF04ST-23401 | MB12FSDRF04ST-33401 |
| | 0.3m | MB12MSDRF04ST-23403 | MB12MSDRF04ST-33403 | MB12FSDRF04ST-23403 | MB12FSDRF04ST-33403 |

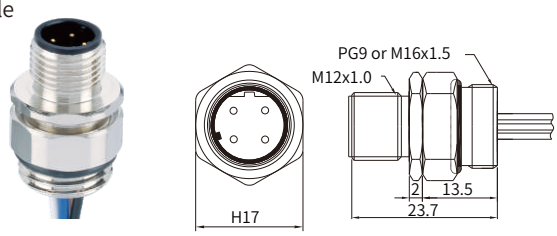
## Default wire colors

| Pin No. | | |
|---|---|---|
| Pin 1 | BN | WH/OR |
| Pin 2 | WH | WH/GN |
| Pin 3 | BU | OR |
| Pin 4 | BK | GN |

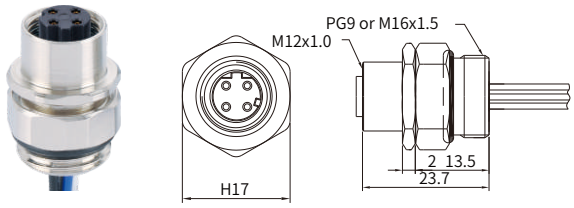
# M12 D-coding (Ethernet)

## M12 D-coding Straight Connector, Panel Mount, Solder, Rear fastened, Adjustable Nut

Male




Female




CE RoHS

CE RoHS

## Specifications

| Contacts | 4 |
|---|---|
| Certification | CYJV2(CYJV8).E321413 CYJV(CYJV7).E321413 |
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-101 |
| Ambient temperature | -15°C~+85°C (flexible installation), -30°C~+85°C (fixed installation) |
| Customized temperature | -25°C ~ +85°C (flexible installation), -40°C ~ +85°C (fixed installation) |
| Connector insert | TPU |
| Connector contacts | Brass with gold plated |
| Coupling nut/screw | Brass with nickel plated |
| Seal/O-ring | Epoxy resin / FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Earth tag/pin | Unavailable |
| IP rating | IP67, IP68 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 4 A |
| Rated voltage | 250V AC/DC |
| Wire gauge | 0.34mm$^2$(AWG22) |
| Panel cut-out | Refer to page 416 |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | M16x1.5 | PG9 | M16x1.5 | PG9 |
| 4 | 0.1m | MB12MSDRF04ST-23401 | MB12MSDRF04ST-33401 | MB12FSDRF04ST-23401 | MB12FSDRF04ST-33401 |
| | 0.3m | MB12MSDRF04ST-23403 | MB12MSDRF04ST-33403 | MB12FSDRF04ST-23403 | MB12FSDRF04ST-33403 |

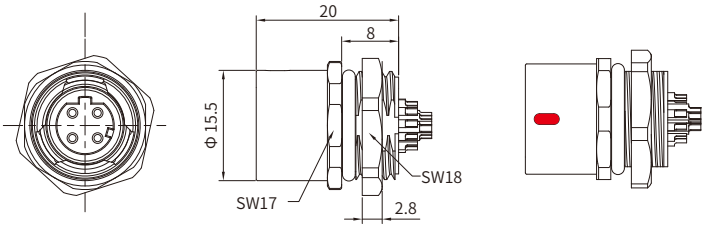
## Default wire colors

| Pin No. | | |
|---|---|---|
| Pin 1 | BN | WH/OR |
| Pin 2 | WH | WH/GN |
| Pin 3 | BU | OR |
| Pin 4 | BK | GN |

# M12 D-coding (Ethernet)

## M12 D-coding Push-Pull Female Straight Panel Mount, Rear fastened, Shielded

Female




RoHS

## Specifications

| Contacts | 4 |
|---|---|
| Pin layout(Female) | |
| Standard | IEC 61076-2-012-2020 |
| Ambient temperature | -25 °C ~ +85°C |
| Insulator | PA |
| Connector contacts | Brass with gold plated |
| Out shell | Brass with Black nickel plated |
| Insulator resistance | ⩾100MΩ |
| IP rating | IP 67(Mated) |
| Shielding effciency | at 10MHz>75dB/at 1GHz>40dB |
| Salt spray corrosion test | >96h |
| Endurance | 500 cycles |
| Rated current | 4 A |
| Voltage | 250V AC/DC |
| Wire gauge / size | 0.34mm$^2$(AWG22) |
| Panel cut-out | Refer to page 416 |

## Part Number

| Pins | Cable length | Female |
|---|---|---|
| 4 | 0.1m | MB12FSPDPP04ST-3-23401 |
| | 0.3m | MB12FSPDPP04ST-3-23403 |

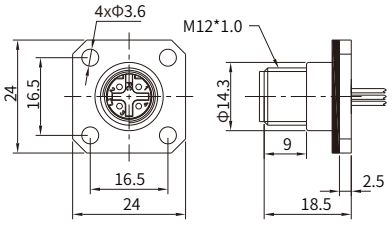
## Default wire colors

| Pin No. | | |
|---|---|---|
| Pin 1 | BN | WH/OR |
| Pin 2 | WH | WH/GN |
| Pin 3 | BU | OR |
| Pin 4 | BK | GN |

# M12 D-coding (Ethernet)

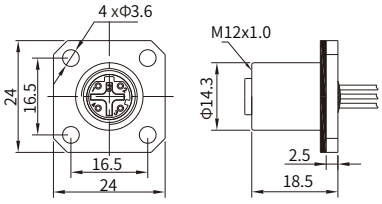
## M12 D-coding Straight Connector, Panel Mount, Solder, with Flange

Male




CE RoHS

Female




CE RoHS

## Specifications

| Contacts | 4 |
|---|---|
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-101 |
| Ambient temperature | -15°C~+85°C (flexible installation), -30°C~+85°C (fixed installation) |
| Customized temperature | -25°C ~ +85°C (flexible installation), -40°C ~ +85°C (fixed installation) |
| Connector insert | TPU |
| Connector contacts | Brass with gold plated |
| Coupling nut/screw | Brass with nickel plated |
| Seal/O-ring | Epoxy resin / FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Earth tag/pin | Unavailable |
| IP rating | IP67, IP68 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 4 A |
| Rated voltage | 250V AC/DC |
| Wire gauge | 0.34mm²(AWG22) |

## Part Number

| Pins | Cable length | Male | Female |
|---|---|---|---|
| 4 | 0.1m | MB12MSDFLF04ST-3401 | MB12FSDFLF04ST-3401 |
| | 0.3m | MB12MSDFLF04ST-3403 | MB12FSDFLF04ST-3403 |

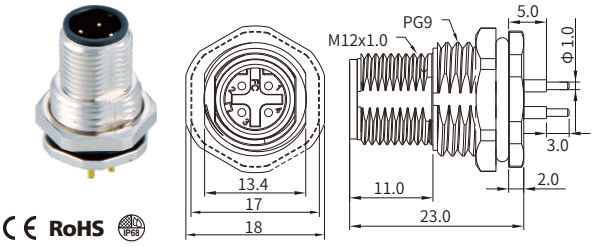
## Default wire colors

| Pin No. | | |
|---|---|---|
| Pin 1 | BN | WH/OR |
| Pin 2 | WH | WH/GN |
| Pin 3 | BU | OR |
| Pin 4 | BK | GN |

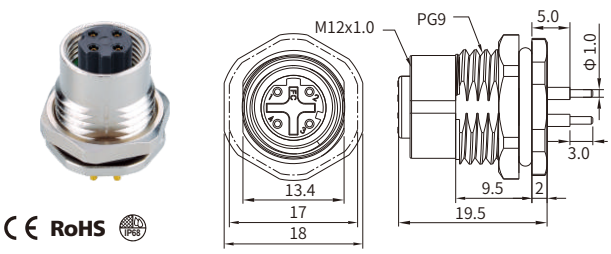
# M12 D-coding (Ethernet)

## M12 D-coding Straight Connector, Panel Mount, Die-cast Screw, PCB Type, Front fastened

Male




Female




## Specifications

| Contacts | 4 |
|---|---|
| Certification | CYJV2(CYJV8).E321413 CYJV(CYJV7).E321413 |
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-101 |
| Ambient temperature | -25°C ~ +90°C |
| Connector insert | PA |
| Connector contacts | Brass with gold plated |
| Coupling nut/screw | Zinc alloy with nickel plated |
| Seal/O-ring | Epoxy resin / FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Earth tag/pin | Unavailable |
| IP rating | IP67, IP68 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 4 A |
| Rated voltage | 250V AC/DC |
| Panel cut-out | Refer to page 416 |
| PCB layout | Refer to page 415 |

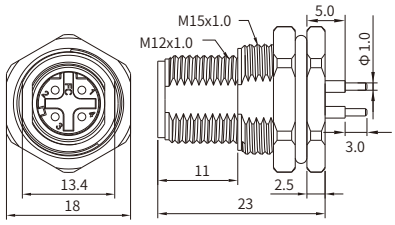
## Part Number

| Pins | Male | Female |
|---|---|---|
| | PG9 | PG9 |
| 4 | MB12MBDFHD04ST-3 | MB12FBDFHD04ST-3 |

# M12 D-coding (Ethernet)

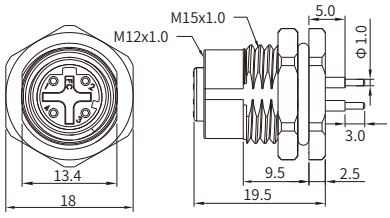
## M12 D-coding Straight Connector, Panel Mount, Plastic PCB Type, Front fastened

Male




CE RoHS

Female




CE RoHS

## Specifications

| Contacts | 4 |
|---|---|
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-101 |
| Ambient temperature | -25°C ~ +90°C |
| Connector insert | PA |
| Connector contacts | Brass with gold plated |
| Coupling nut/screw | PA+GF |
| Seal/O-ring | Epoxy resin / FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Earth tag/pin | Unavailable |
| IP rating | IP67, IP68 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 4 A |
| Rated voltage | 250V AC/DC |
| Panel cut-out | Refer to page 416 |
| PCB layout | Refer to page 415 |

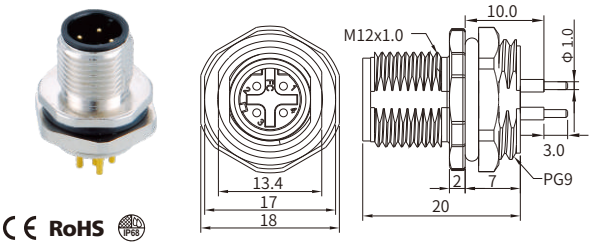
## Part Number

| Pins | Male | Female |
|---|---|---|
| | M15x1.0 | M15x1.0 |
| 4 | MB12MBDFP04ST-1 | MB12FBDFP04ST-1 |

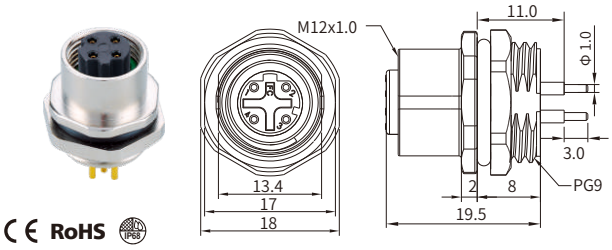
# M12 D-coding (Ethernet)

## M12 D-coding Straight Connector, Panel Mount, Die-cast Screw, PCB Type, Rear fastened

Male




Female




## Specifications

| | |
|---|---|
| Contacts | 4 |
| Certification | CYJV2(CYJV8).E321413 CYJV(CYJV7).E321413 |
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-101 |
| Ambient temperature | -25°C ~ +90°C |
| Connector insert | PA |
| Connector contacts | Brass with gold plated |
| Coupling nut/screw | Zinc alloy with nickel plated |
| Seal/O-ring | Epoxy resin / FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Earth tag/pin | Unavailable |
| IP rating | IP67, IP68 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 4 A |
| Rated voltage | 250V AC/DC |
| Panel cut-out | Refer to page 416 |
| PCB layout | Refer to page 415 |

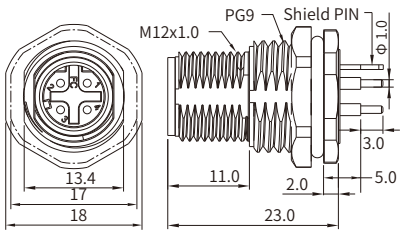
## Part Number

| Pins | Male | Female |
|---|---|---|
| | PG9 | PG9 |
| 4 | MB12MBDRHD04ST-3 | MB12FBDRHD04ST-3 |

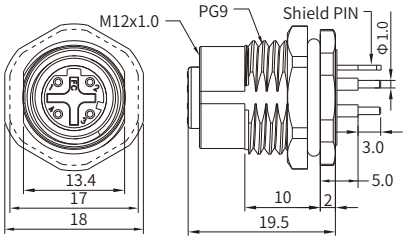
# M12 D-coding (Ethernet)

## M12 D-coding Straight Connector, Panel, Die-cast Screw, PCB Type, Front fastened, With Earth Pin

Male




Female




## Specifications

| Contacts | 4 |
|---|---|
| Certification | CYJV2(CYJV8).E321413 CYJV(CYJV7).E321413 |
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-101 |
| Ambient temperature | -25°C ~ +90°C |
| Connector insert | PA |
| Connector contacts | Brass with gold plated |
| Coupling nut/screw | Zinc alloy with nickel plated |
| Seal/O-ring | Epoxy resin / FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Earth tag/pin | Available |
| IP rating | IP67, IP68 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 4 A |
| Rated voltage | 250V AC/DC |
| Panel cut-out | Refer to page 416 |
| PCB layout | Refer to page 415 |

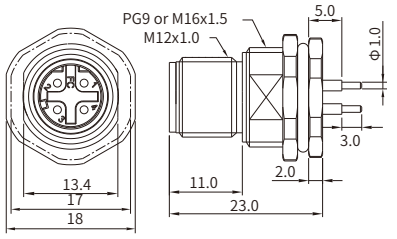
## Part Number

| Pins | Male | Female |
|---|---|---|
| | PG9 | PG9 |
| 4 | MB12MBSDFHD04ST-3 | MB12FBSDFHD04ST-3 |

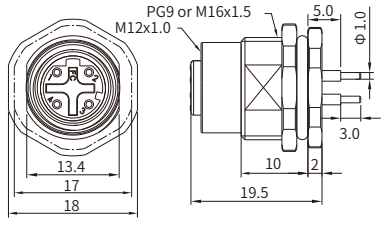
# M12 D-coding (Ethernet)

## M12 D-coding Straight Connector, Panel Mount, PCB Type, Front fastened

Male




Female




## Specifications

| | |
|---|---|
| Contacts | 4 |
| Certification | CYJV2(CYJV8).E321413 CYJV(CYJV7).E321413 |
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-101 |
| Ambient temperature | -25°C ~ +90°C |
| Connector insert | PA |
| Connector contacts | Brass with gold plated |
| Coupling nut/screw | Brass with nickel plated |
| Seal/O-ring | Epoxy resin / FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Earth tag/pin | Unavailable |
| IP rating | IP67, IP68 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 4 A |
| Rated voltage | 250V AC/DC |
| Panel cut-out | Refer to page 416 |
| PCB layout | Refer to page 415 |

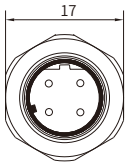
## Part Number

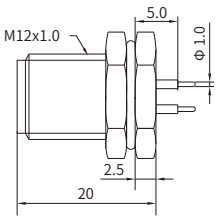
| Pins | Male | | Female | |
|---|---|---|---|---|
| | M16x1.5 | PG9 | M16x1.5 | PG9 |
| 4 | MB12MBDFF04ST-2 | MB12MBDFF04ST-3 | MB12FBDFF04ST-2 | MB12FBDFF04ST-3 |

# M12 D-coding (Ethernet)

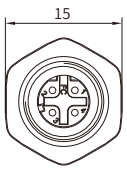
## M12 D-coding Straight Connector, Panel Mount, PCB Type, M12 Front fastened

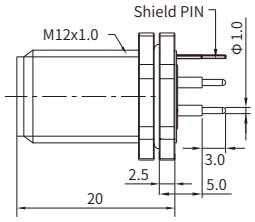
Male Unshielded




Male Shielded




## Specifications

| Contacts | 4 |
|---|---|
| Certification | CYJV2(CYJV8).E321413 CYJV(CYJV7).E321413 |
| Pin layout(Male) | |
| Standard | IEC 61076-2-101 |
| Ambient temperature | -25°C ~ +90°C |
| Connector insert | TPU |
| Connector contacts | Brass with gold plated |
| Coupling nut/screw | Brass with nickel plated |
| Seal/O-ring | Epoxy resin / FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Earth tag/pin | Unavailable/Available |
| IP rating | IP67, IP68 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 4 A |
| Rated voltage | 250V AC/DC |
| Panel cut-out | Refer to page 416 |
| PCB layout | Refer to page 415 |

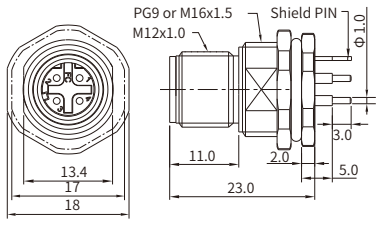
## Part Number

| Pins | Male | |
|---|---|---|
| | Unshielded | Shielded |
| 4 | MB12MBDFF04ST-0 | MB12MBSDFF04ST-0 |

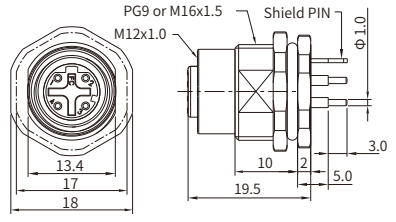
# M12 D-coding (Ethernet)

## M12 D-coding Straight Connector, Panel Mount, PCB Type, Front fastened, With Earth Pin

Male




Female




## Specifications

| Contacts | 4 |
|---|---|
| Certification | CYJV2(CYJV8).E321413 CYJV(CYJV7).E321413 |
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-101 |
| Ambient temperature | -25°C ~ +90°C |
| Connector insert | PA |
| Connector contacts | Brass with gold plated |
| Coupling nut/screw | Brass with nickel plated |
| Seal/O-ring | Epoxy resin / FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Earth tag/pin | Available |
| IP rating | IP67, IP68 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 4 A |
| Rated voltage | 250V AC/DC |
| Panel cut-out | Refer to page 416 |
| PCB layout | Refer to page 415 |

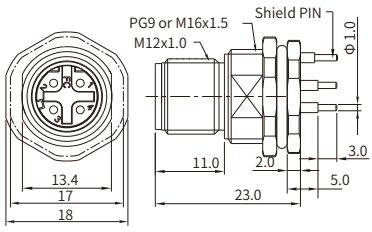
## Part Number

| Pins | Male | | Female | |
|---|---|---|---|---|
| | M16x1.5 | PG9 | M16x1.5 | PG9 |
| 4 | MB12MBSDFF04ST-2 | MB12MBSDFF04ST-3 | MB12FBSDFF04ST-2 | MB12FBSDFF04ST-3 |

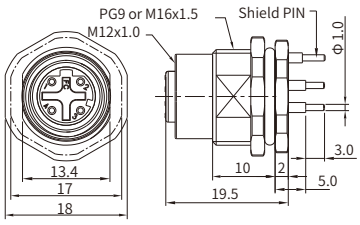
# M12 D-coding (Ethernet)

## M12 D-coding Straight Connector, Panel Mount, PCB Type, Front Fastened, With Circular Earth Pin

Male




Female




## Specifications

| Contacts | 4 |
|---|---|
| Certification | CYJV2(CYJV8).E321413 CYJV(CYJV7).E321413 |
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-101 |
| Ambient temperature | -20°C ~ +90°C |
| Connector insert | PA |
| Connector contacts | Brass with gold plated |
| Coupling nut/screw | Brass with nickel plated |
| Seal/O-ring | Epoxy resin / FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Earth tag/pin | Available |
| IP rating | IP67, IP68 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 4 A |
| Rated voltage | 250V AC/DC |
| Panel cut-out | Refer to page 416 |
| PCB layout | Refer to page 415 |

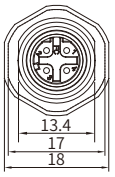
## Part Number

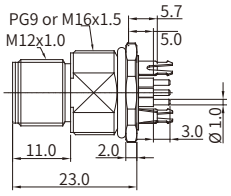
| Pins | Male | | Female | |
|---|---|---|---|---|
| | M16x1.5 | PG9 | M16x1.5 | PG9 |
| 4 | MB12MBSDFF04ST-2-s | MB12MBSDFF04ST-3-s | MB12FBSDFF04ST-2-s | MB12FBSDFF04ST-3-s |

# M12 D-coding (Ethernet)

## M12 D-coding Straight Connector, Panel Mount, PCB Type, Front fastened, With Double Earth Pin

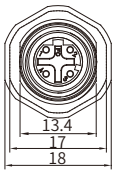
Male

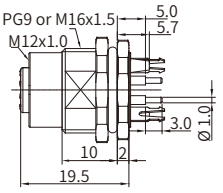



CE RoHS

Female




CE RoHS

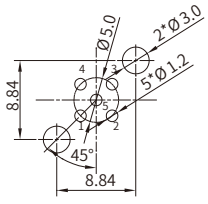
## Specifications

| Contacts | 4 |
|---|---|
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-101 |
| Ambient temperature | -25°C ~ +90°C |
| Connector insert | PA |
| Connector contacts | Brass with gold plated |
| Coupling nut/screw | Brass with nickel plated |
| Seal/O-ring | Epoxy resin / FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Earth tag/pin | Available |
| IP rating | IP67, IP68 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 4 A |
| Rated voltage | 250V AC/DC |

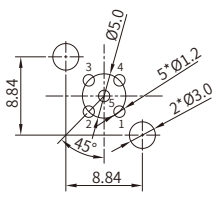
## Part Number

| Pins | Male | | Female | |
|---|---|---|---|---|
| | M16x1.5 | PG9 | M16x1.5 | PG9 |
| 4 | MB12MBSDFF04ST-2 | MB12MBSDFF04ST-3 | MB12FBSDFF04ST-2 | MB12FBSDFF04ST-3 |

## PCB layout




Male PIN OD:1.0
4P

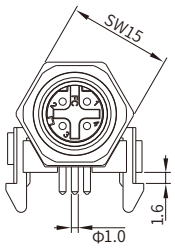


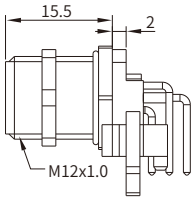

Female PIN OD:1.0
4P

# M12 D-coding (Ethernet)

## M12 D-coding Angled Connector, Panel Mount, PCB Type, Front fastened

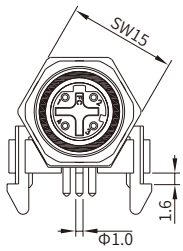
Male

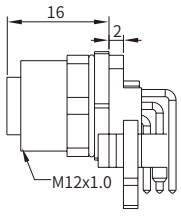



CE RoHS

Female




CE RoHS

## Specifications

| Contacts | 4 |
|---|---|
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-101 |
| Ambient temperature | -25°C ~ +90°C |
| Connector insert | PA+GF |
| Connector contacts | Brass with gold plated |
| Coupling nut/screw | Brass with nickel plated |
| Seal/O-ring | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Earth tag/pin | Unavailable/Available |
| IP rating | IP67, IP68 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 4 A |
| Rated voltage | 250V AC/DC |
| Panel cut-out | Refer to page 416 |
| PCB layout | Refer to page 416 |

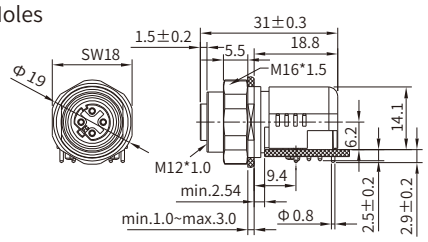
## Part Number

| Pins | Male | | Female | |
|---|---|---|---|---|
| | Unshielded | Shielded | Unshielded | Shielded |
| 4 | MB12MBDFF04RA-0 | MB12MBSDFF04RA-0 | MB12FBDFF04RA-0 | MB12FBSDFF04RA-0 |

# M12 D-coding (Ethernet)

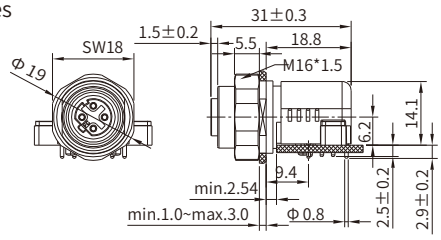
## M12 D-coding Angled Connector, Panel Mount, PCB Type, Shielded Shell

Without Fixed Holes




CE RoHS

With Fixed Holes




CE RoHS

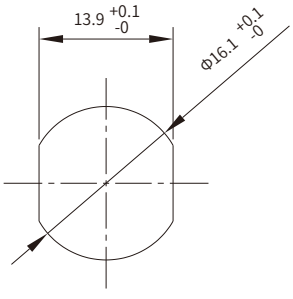
## Specifications

| Contacts | 4 |
|---|---|
| Pin layout(Female) | |
| Standard | IEC 61076-2-101 |
| Ambient temperature | -40°C ~ +90°C |
| Connector insert | PA |
| Connector contacts | Brass with gold plated |
| Connector nut/screw | Brass with nickel plated |
| Connector body | Brass with nickel plated |
| Shield Shell | Zinc alloy with nickel plated |
| Seal/O-ring | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Earth tag/pin | Available |
| IP rating | IP20 in locked condition |
| Transmission characteristics | Cat. 5,D level: up to 100 MHz |
| Mating endurance | >500 cycles |
| Rated current | 4 A |
| Rated voltage | 50V AC/DC |

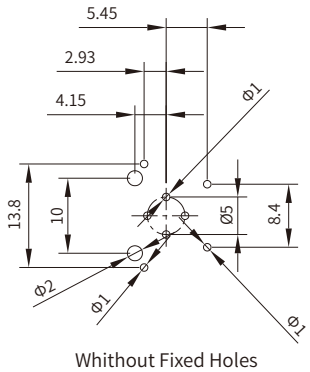
## Part Number

| Pins | Female | |
|---|---|---|
| | Whithout Fixed Holes | Whith Fixed Holes |
| 4 | MB12FBSDFF04RA-20 | MB12FBSDFF04RA-21 |

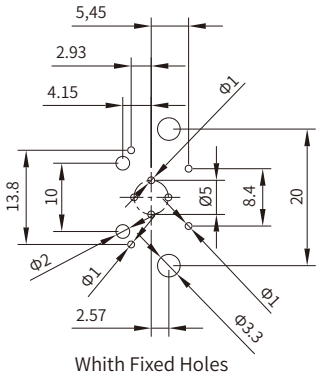
## Panel Cut-out Dimensions




## Panel Cut-out Dimensions




Whithout Fixed Holes



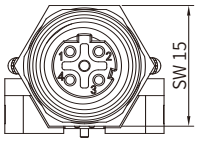

Whith Fixed Holes

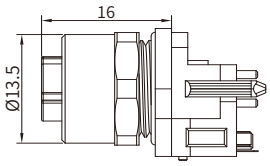
Recommended PCB thickness:1.6mm

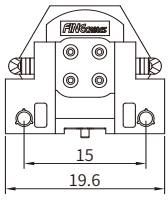
# M12 D-coding (Ethernet)

## M12 D-coding Female Panel Mount, Straight, PCB Type , Front Fastended

Female




CE RoHS

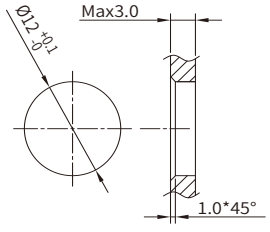
## Specifications

| Contacts | 4 |
|---|---|
| Pin layout(Female) | |
| Standard | IEC 61076-2-101 |
| Ambient temperature | -25°C~+90°C |
| Connector insert | PA+GF |
| Connector contacts | Brass with gold plated |
| Coupling nut/screw | Brass with nickel plated |
| Seal/O-ring | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Earth tag/pin | Available |
| IP rating | IP67 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 4 A |
| Rated voltage | 250V AC/DC |

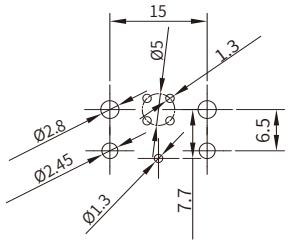
## Part Number

| Pins | Female |
|---|---|
| 4 | MB12FBSDFF04ST-0 |

## PCB layout

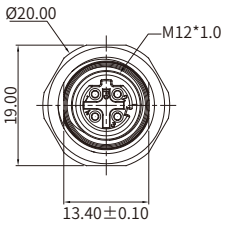


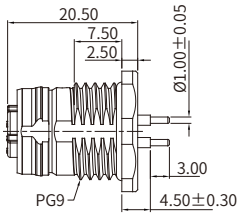

Panel Cut-out Dimensions



# M12 D-coding (Ethernet)

## M12 D-Coding Female Connector, Straight, Panel Mount, Outer Push pull Locking, Front Fastened




CE RoHS

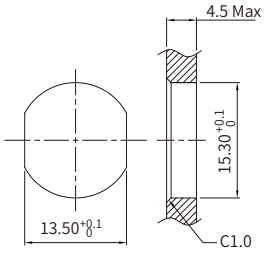
## Specifications

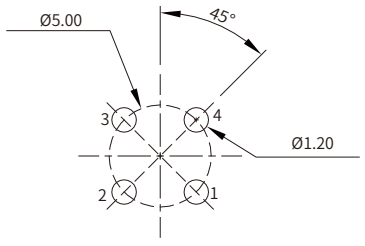
| Contacts | 4 |
|---|---|
| Pin layout(Female) | |
| Standard | IEC 61076-2-101 |
| Ambient temperature | -25°C~+90°C |
| Connector insert | PA+GF |
| Connector contacts | Brass with gold plated |
| Coupling nut/screw | Brass with nickel plated |
| Seal/O-ring | Epoxy resin/FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Earth tag/pin | Available |
| IP rating | IP67 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 4 A |
| Rated voltage | 250V AC/DC |

## Part Number

| Pins | Female |
|---|---|
| 4 | MB12FBOPDPP04ST-3 |

## PCB layout

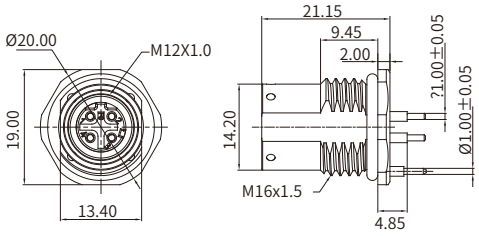



Recommended Panel and PCB Hole
No Specified Tolerance: ±0.05

# M12 D-coding (Ethernet)

## M12 D-Coding Female Connector, Straight, Panel Mount, Push-Pull Type, Front Fastened, With Steel Ball




CE RoHS IP68

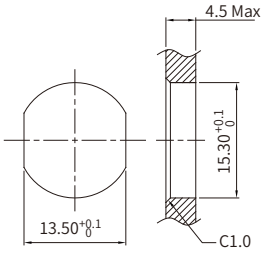
## Specifications

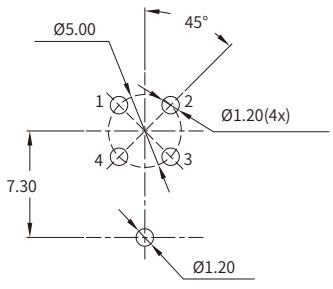
| Contacts | 4 |
|---|---|
| Pin layout(Female) | |
| Standard | T/CECA 30 |
| Ambient temperature | -25°C~+90°C |
| Connector insert | PA+GF |
| Connector contacts | Brass with gold plated |
| Coupling nut/screw | Brass with nickel plated |
| Seal/O-ring | Epoxy resin/FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Earth tag/pin | Available |
| IP rating | IP67 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 4 A |
| Rated voltage | 250V AC/DC |

## Part Number

| Pins | Female |
|---|---|
| 4 | MB12FBPSBDPP04ST-2 |

## PCB layout



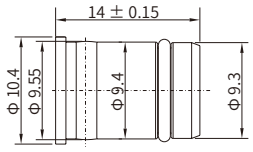




Recommended Panel and PCB Hole
No Specified Tolerance: ±0.05

# M12 D-coding (Ethernet)

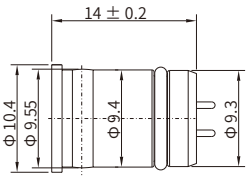
## M12 D-coding Straight Connector, Plastic Housing with O-ring

Male Solder




CE RoHS IP68

Male PCB Type




CE RoHS IP68

## Specifications

| Contacts | 4 |
|---|---|
| Pin layout(Male) | |
| Standard | IEC 61076-2-101 |
| Ambient temperature | -20°C ~ +90°C |
| Connector insert | PA |
| Connector contacts | Brass with gold plated |
| Seal/O-ring | Epoxy resin / FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Earth tag/pin | Unavailable |
| IP rating | IP67, IP68 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 4 A |
| Rated voltage | 250V AC/DC |

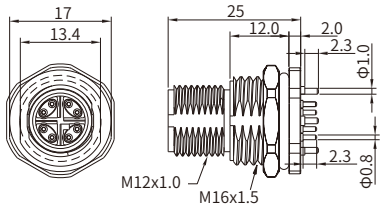
## Part Number

| Pins | Male | |
|---|---|---|
| | Solder | PCB Type |
| 4 | M12H-MSD04 | M12H-MBD04 |

# M12 X-coding (Ethernet)

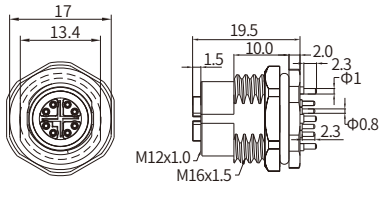
## M12 X-coding Straight Connector, Panel Mount, PCB Type, Front fastened, With Earth Pin

Male




RoHS

Female




RoHS

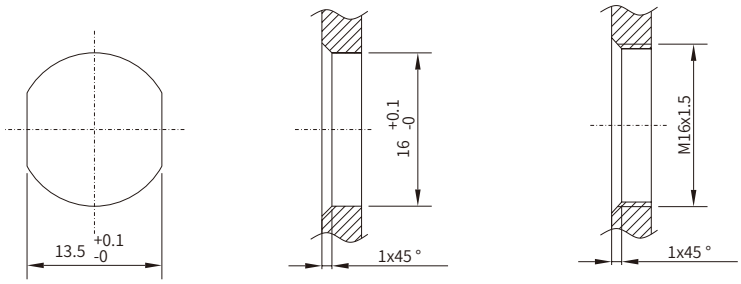
## Specifications

| Contacts | 8 |
|---|---|
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-109 |
| Ambient temperature | -25°C ~ +90°C |
| Connector insert | PA |
| Connector contacts | Brass with gold plated |
| Coupling nut/screw | Brass/Zinc with nickel plated |
| Seal/O-ring | Epoxy resin / FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽10mΩ |
| Earth tag/pin | Available |
| IP rating | IP67, IP68 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 0.5 A |
| Rated voltage | 50V AC; 60V DC |

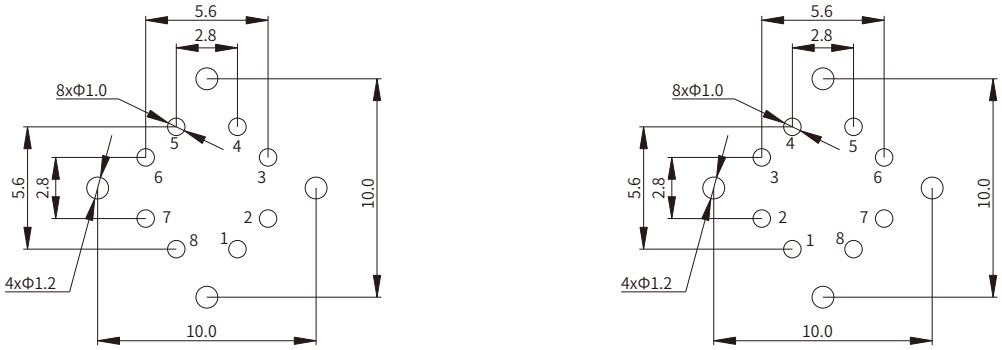
## Part Number

| Pins | Male | Female |
|---|---|---|
| | M16x1.5 | M16x1.5 |
| 8 | MB12MBSXFHD08ST-2 | MB12FBSXFHD08ST-2 |

## Panel Cut-out Dimensions



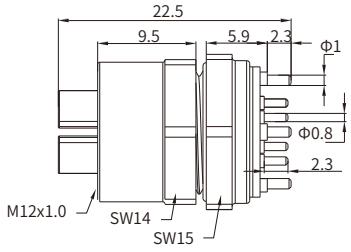

## PCB Layout



# M12 X-coding (Ethernet)

## M12 X-coding Straight Connector, Panel Mount, PCB Type, Rear fastened, With Earth Pin

Female




RoHS

## Specifications

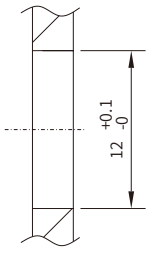
| Contacts | 8 |
|---|---|
| Pin layout(Female) | |
| Standard | IEC 61076-2-109 |
| Ambient temperature | -25°C ~ +90°C |
| Connector insert | PA |
| Connector contacts | Brass with gold plated |
| Coupling nut/screw | Brass/Zinc with nickel plated |
| Seal/O-ring | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽10mΩ |
| Earth tag/pin | Available |
| IP rating | IP67, IP68 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 0.5 A |
| Rated voltage | 50V AC; 60V DC |

## Part Number

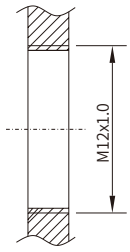
| Pins | Female<br>M12x1.0 |
|---|---|
| 8 | MB12FBSXFF08ST-0 |

## Panel Cut-out Dimensions

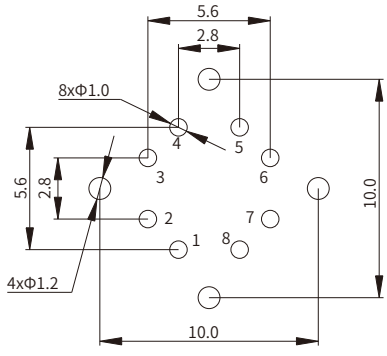
With bare hole




With thread to screw in



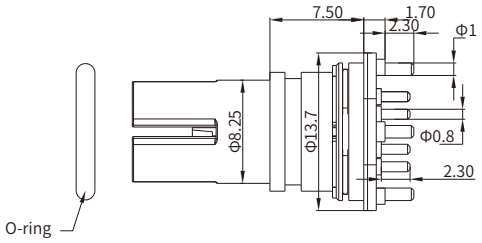

## PCB Layout



# M12 X-coding (Ethernet)

## M12 X-coding Straight Connector, Panel Mount, PCB Type, Without Screw, With Earth Pin

Female




RoHS

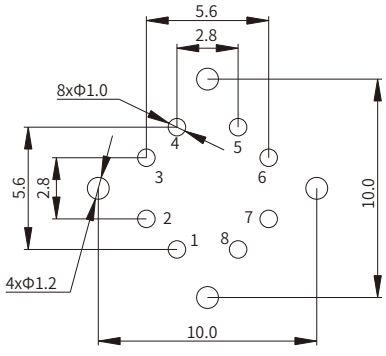
## Specifications

| Contacts | 8 |
|---|---|
| Pin layout(Female) | |
| Standard | IEC 61076-2-109 |
| Ambient temperature | -25°C ~ +90°C |
| Connector insert | PA |
| Connector contacts | Brass with gold plated |
| Coupling nut/screw | Brass/Zinc with nickel plated |
| Seal/O-ring | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽10mΩ |
| Earth tag/pin | Available |
| IP rating | IP67, IP68 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 0.5 A |
| Rated voltage | 50V AC; 60V DC |

## Part Number

| Pins | Female |
|---|---|
| 8 | MB12FBSXFI08ST |

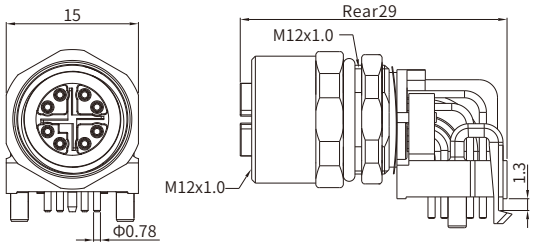
## PCB Layout



# M12 X-coding (Ethernet)

## M12 X-coding Angled Connector, Panel Mount, PCB Type, fastened, With Earth Pin

Female




RoHS

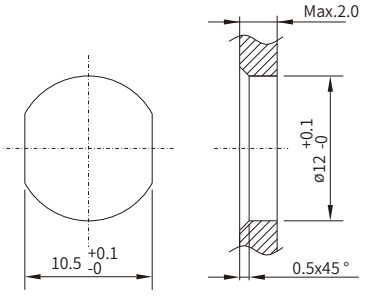
## Specifications

| Contacts | 8 |
|---|---|
| Pin layout(Female) | |
| Standard | IEC 61076-2-109 |
| Ambient temperature | -25°C ~ +90°C |
| Connector insert | PA / TPU |
| Connector contacts | Brass with gold plated |
| Coupling nut/screw | Brass / Stainless steel |
| Seal/O-ring | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽10mΩ |
| Earth tag/pin | Available |
| IP rating | IP67, IP68 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 0.5 A |
| Rated voltage | 50V AC; 60V DC |

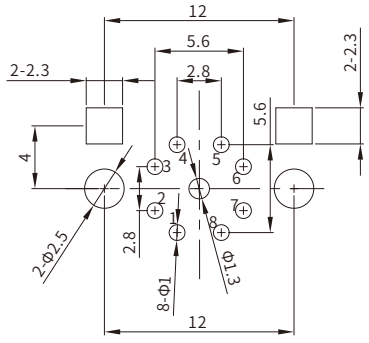
## Part Number

| Pins | Female<br>M12x1.0 |
|---|---|
| 8 | MB12FBSXFF08RA-0 |

## Panel Cut-out Dimensions



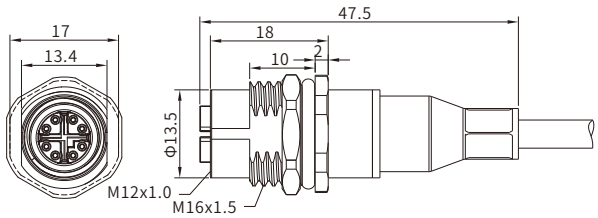

## PCB Layout



# M12 X-coding

## M12 X-coding Panel Mount, Crimp, Front fastened, With Earth Pin, Shielded

Female




RoHS

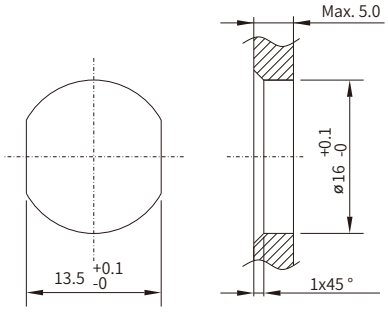
## Specifications

| Contacts | 8 |
|---|---|
| Pin layout(Female) | |
| Standard | IEC 61076-2-109 |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) |
| Connector insert | PA / TPU |
| Connector contacts | Brass with gold plated |
| Coupling nut/screw | Brass / Stainless steel |
| Seal/O-ring | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽10mΩ |
| Earth tag/pin | Available |
| IP rating | IP67, IP68 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 0.5 A |
| Rated voltage | 50V AC; 60V DC |
| Wire gauge | 0.14~0.25mm$^2$(AWG27~24) |

## Part Number

| Pins | Female |
|---|---|
| | M16x1.5 |
| 8 | MB12FCSXFF08ST-2 |

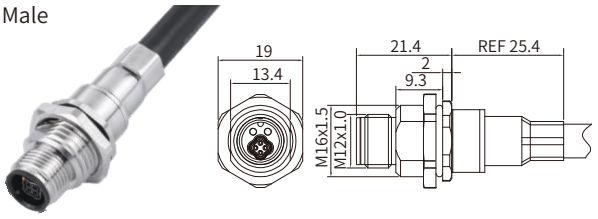
## Panel Cut-out Dimensions



# M12 Y1-coding

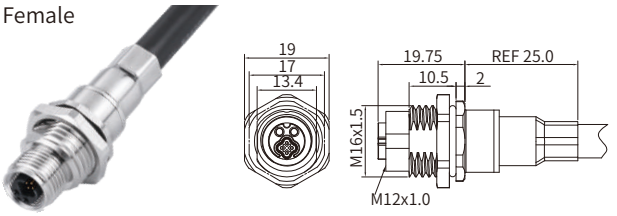
## M12 Y1-coding Straight Connector, Panel, Front Mount, Shielded

Male




RoHS

Female




RoHS

## Specifications

| Contacts | 6 |
|---|---|
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-113 |
| Ambient temperature | -15°C~+85°C (flexible installation), -30°C~+85°C (fixed installation) |
| Customized temperature | -25°C ~ +85°C (flexible installation), -40°C ~ +85°C (fixed installation) |
| Connector insert | PA+GF |
| Connector contacts | Brass with gold plated |
| Coupling nut/screw | Brass with nickel plated |
| Seal/O-ring | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽10mΩ |
| Shielding | Available |
| IP rating | IP67 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 10 A(Power pins) / 0.5A(Data pins) |
| Rated voltage | 50V AC/ DC |
| Wire gauge | 1.25 $mm^2$ (AWG 16)(Power pins) / 0.15 $mm^2$ (AWG 26)(Data pins) |

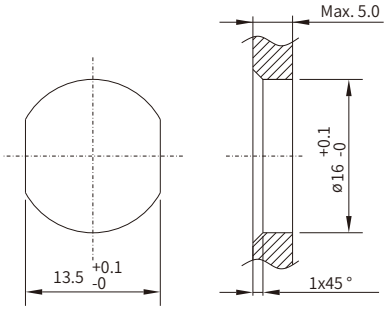
## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 6 | 1m | MB12MCSY1FF06ST-10CB25-2 | MB12MCSY1FF06ST-10RB25-2 | MB12FCSY1FF06ST-10CB25-2 | MB12FCSY1FF06ST-10RB25-2 |
| | 3m | MB12MCSY1FF06ST-30CB25-2 | MB12MCSY1FF06ST-30RB25-2 | MB12FCSY1FF06ST-30CB25-2 | MB12FCSY1FF06ST-30RB25-2 |
| | 5m | MB12MCSY1FF06ST-50CB25-2 | MB12MCSY1FF06ST-50RB25-2 | MB12FCSY1FF06ST-50CB25-2 | MB12FCSY1FF06ST-50RB25-2 |

## Default wire colors

| Pin No. | |
|---|---|
| Pin 1(Power) | BK |
| Pin 2(Power) | RD |
| Pin 5(Data) | WH |
| Pin 6(Data) | RD |
| Pin 7(Data) | OR |
| Pin 8(Data) | GN |
| Shell | Braid |

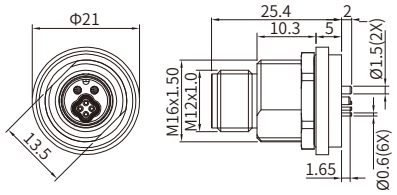
## Panel Cut-out Dimensions



# M12 Y1-coding

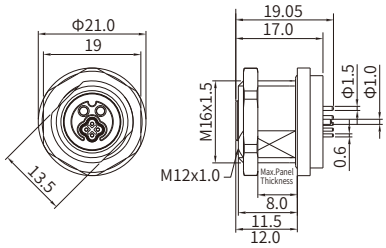
## M12 Y1-coding Straight Connector, Panel Mount, PCB, Front fastened, With Earth Pin

Male




RoHS

Female




RoHS

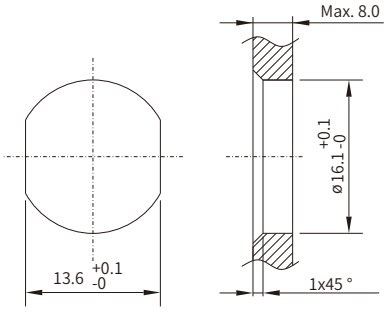
## Specifications

| Contacts | 6 |
|---|---|
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-113 |
| Ambient temperature | -40°C ~ +80°C(fixed installation) / -20°C ~ +80°C(flexible installation) |
| Connector insert | PA+GF |
| Connector contacts | Brass with gold plated |
| Coupling nut/screw | Brass with nickel plated |
| Seal/O-ring | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽10mΩ |
| Earth tag/pin | Available |
| IP rating | IP67 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 10 A(Power pins) / 0.5A(Data pins) |
| Rated voltage | 50V AC/ DC |

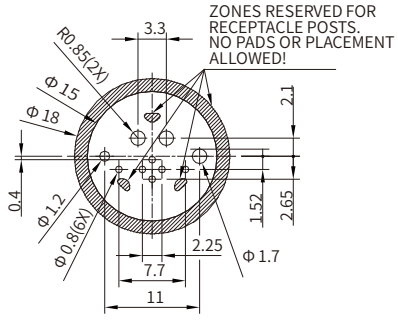
## Part Number

| Pins | Male | Female |
|---|---|---|
| 6 | MB12MBSY1FF06ST-2 | MB12FBSY1FF06ST-2 |

## Panel Cut-out Dimensions



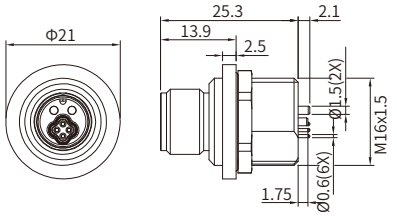

## PCB Layout



# M12 Y1-coding

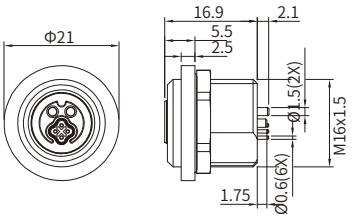
## M12 Y1-coding Straight Connector, Panel Mount, PCB, Rear fastened, With Earth Pin

Male




RoHS

Female




RoHS

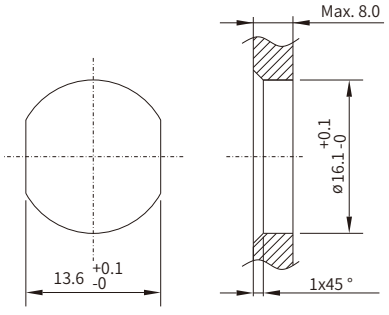
## Specifications

| Contacts | 6 |
|---|---|
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-113 |
| Ambient temperature | -40°C ~ +80°C(fixed installation) / -20°C ~ +80°C(flexible installation) |
| Connector insert | PA+GF |
| Connector contacts | Brass with gold plated |
| Coupling nut/screw | Brass with nickel plated |
| Seal/O-ring | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽10mΩ |
| Earth tag/pin | Available |
| IP rating | IP67 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 10 A(Power pins) / 0.5A(Data pins) |
| Rated voltage | 50V AC/ DC |

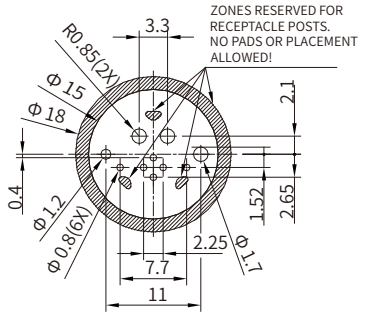
## Part Number

| Pins | Male | Female |
|---|---|---|
| 6 | MB12MBSY1RF06ST-2 | MB12FBSY1RF06ST-2 |

## Panel Cut-out Dimensions



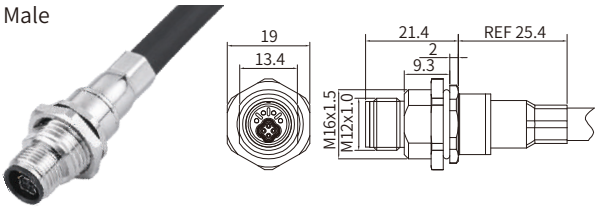

## PCB Layout



# M12 Y2-coding

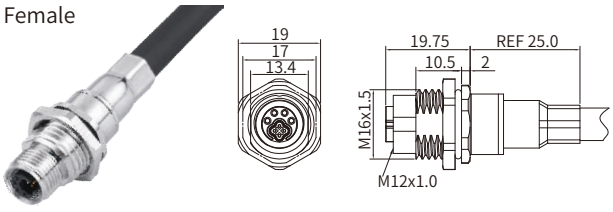
## M12 Y2-coding Straight Connector, Panel, Front Mount, Shielded

Male




RoHS

Female




RoHS

## Specifications

| Contacts | 8 |
|---|---|
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-113 |
| Ambient temperature | -15°C~+85°C (flexible installation), -30°C~+85°C (fixed installation) |
| Customized temperature | -25°C ~ +85°C (flexible installation), -40°C ~ +85°C (fixed installation) |
| Connector insert | PA+GF |
| Connector contacts | Brass with gold plated |
| Coupling nut/screw | Brass with nickel plated |
| Seal/O-ring | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽10mΩ |
| Shielding | Available |
| IP rating | IP67 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 6 A(Power pins) / 0.5A(Data pins) |
| Rated voltage | 50V AC/ DC |
| Wire gauge | 0.6 $mm^2$ ( AWG 20)(Power pins)/ 0.15 $mm^2$ ( AWG 26)(Data pins) |

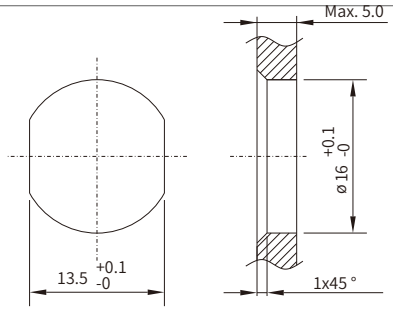
## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 8 | 1m | MB12MCSY2FF08ST-10CB25-2 | MB12MCSY2FF08ST-10RB25-2 | MB12FCSY2FF08ST-10CB25-2 | MB12FCSY2FF08ST-10RB25-2 |
| | 3m | MB12MCSY2FF08ST-30CB25-2 | MB12MCSY2FF08ST-30RB25-2 | MB12FCSY2FF08ST-30CB25-2 | MB12FCSY2FF08ST-30RB25-2 |
| | 5m | MB12MCSY2FF08ST-50CB25-2 | MB12MCSY2FF08ST-50RB25-2 | MB12FCSY2FF08ST-50CB25-2 | MB12FCSY2FF08ST-50RB25-2 |

## Default wire colors

| Pin No. | |
|---|---|
| Pin 1(Power) | WH |
| Pin 2(Power) | BK |
| Pin 3(Power) | BN |
| Pin 4(Power) | WH |
| Pin 5(Data) | WH |
| Pin 6(Data) | OR |
| Pin 7(Data) | RD |
| Pin 8(Data) | GN |
| Shell | Braid |

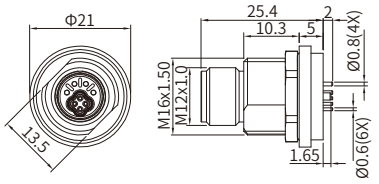
## Panel Cut-out Dimensions



# M12 Y2-coding

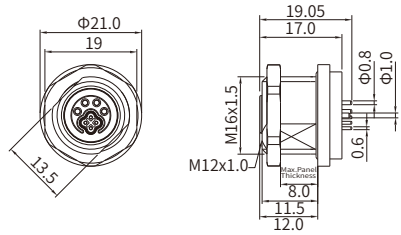
## M12 Y2-coding Straight Connector, Panel Mount, PCB, Front fastened, With Earth Pin

Male




RoHS

Female




RoHS

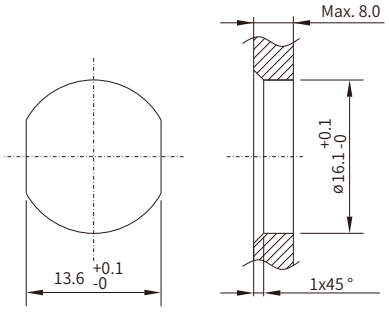
## Specifications

| Contacts | 8 |
|---|---|
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-113 |
| Ambient temperature | -40°C ~ +80°C(fixed installation) / -20°C ~ +80°C(flexible installation) |
| Connector insert | PA+GF |
| Connector contacts | Brass with gold plated |
| Coupling nut/screw | Brass with nickel plated |
| Seal/O-ring | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽10mΩ |
| Earth tag/pin | Available |
| IP rating | IP67 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 6 A(Power pins) / 0.5A(Data pins) |
| Rated voltage | 50V AC/ DC |

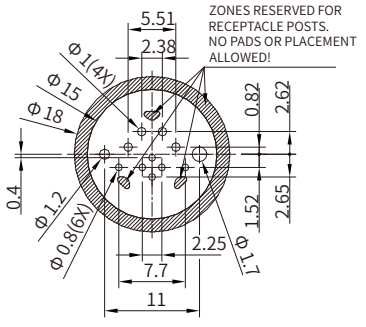
## Part Number

| Pins | Male | Female |
|---|---|---|
| 8 | MB12MBSY208ST-2 | MB12FBSY208ST-2 |

## Panel Cut-out Dimensions



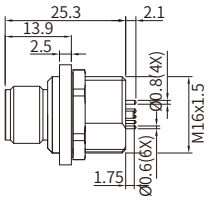

## PCB Layout



# M12 Y2-coding

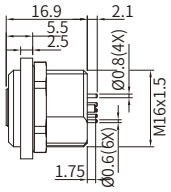
## M12 Y2-coding Straight Connector, Panel Mount, PCB, Rear fastened, With Earth Pin

Male




RoHS

Female




RoHS

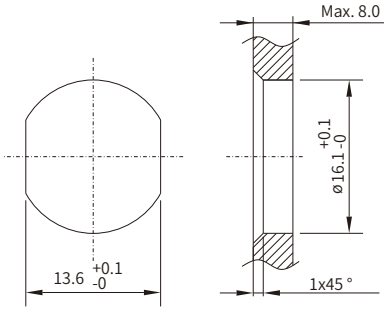
## Specifications

| Contacts | 8 |
|---|---|
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-113 |
| Ambient temperature | -40°C ~ +80°C(fixed installation) / -20°C ~ +80°C(flexible installation) |
| Connector insert | PA+GF |
| Connector contacts | Brass with gold plated |
| Coupling nut/screw | Brass with nickel plated |
| Seal/O-ring | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽10mΩ |
| Earth tag/pin | Available |
| IP rating | IP67 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 6 A(Power pins) / 0.5A(Data pins) |
| Rated voltage | 50V AC/ DC |

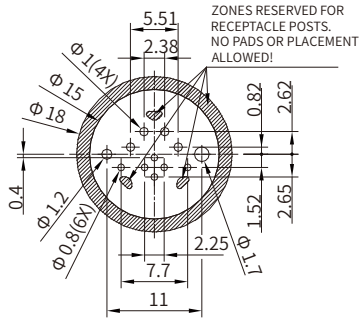
## Part Number

| Pins | Male | Female |
|---|---|---|
| 8 | MB12MBSY2RF08ST-2 | MB12FBSY2RF08ST-2 |

## Panel Cut-out Dimensions



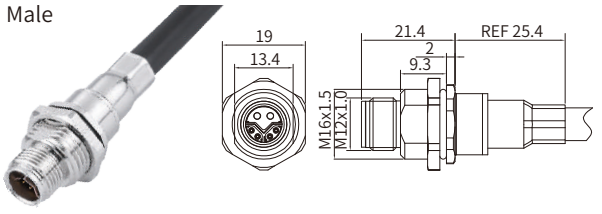

## PCB Layout



# M12 Y3-coding

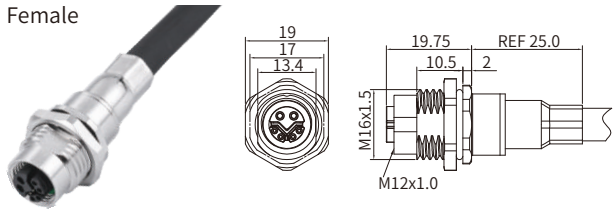
## M12 Y3-coding Straight Connector, Panel, Front Mount, Shielded

Male




RoHS

Female




RoHS

## Specifications

| Contacts | 6 |
|---|---|
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-113 |
| Ambient temperature | -15°C~+85°C (flexible installation), -30°C~+85°C (fixed installation) |
| Customized temperature | -25°C ~ +85°C (flexible installation), -40°C ~ +85°C (fixed installation) |
| Connector insert | TPU+GF |
| Connector contacts | Brass with gold plated |
| Coupling nut/screw | Brass with nickel plated |
| Seal/O-ring | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽10mΩ |
| Shielding | Available |
| IP rating | IP67 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 12 A(Power pins) / 0.5A(Data pins) |
| Rated voltage | 50V AC/ DC |
| Wire gauge | 1.25 $mm^2$ (AWG 16)(Power pins)/ 0.15 $mm^2$ (AWG 26)(Data pins) |

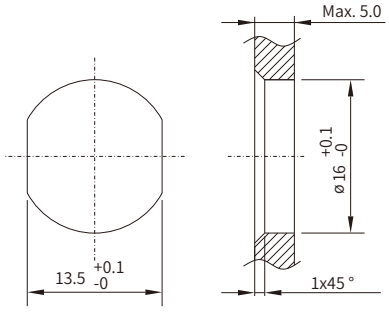
## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 6 | 1m | MB12MCSY3FF06ST-10CB25-2 | MB12MCSY3FF06ST-10RB25-2 | MB12FCSY3FF06ST-10CB25-2 | MB12FCSY3FF06ST-10RB25-2 |
| | 3m | MB12MCSY3FF06ST-30CB25-2 | MB12MCSY3FF06ST-30RB25-2 | MB12FCSY3FF06ST-30CB25-2 | MB12FCSY3FF06ST-30RB25-2 |
| | 5m | MB12MCSY3FF06ST-50CB25-2 | MB12MCSY3FF06ST-50RB25-2 | MB12FCSY3FF06ST-50CB25-2 | MB12FCSY3FF06ST-50RB25-2 |

## Default wire colors

| Pin No. | |
|---|---|
| Pin 1(Data) | WH |
| Pin 2(Data) | OR |
| Pin 3(Data) | RD |
| Pin 4(Data) | GN |
| Pin 5(Power) | RD |
| Pin 6(Power) | BK |
| Shell | Braid |

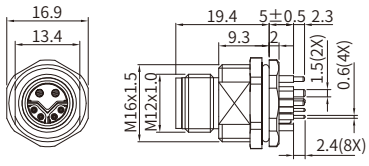
## Panel Cut-out Dimensions



# M12 Y3-coding

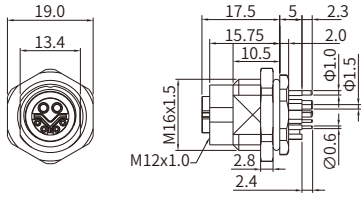
## M12 Y3-coding Straight Connector, Panel Mount, PCB, Front fastened, With Earth Pin

Male




RoHS

Female




RoHS

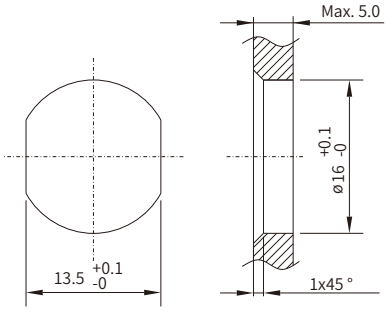
## Specifications

| Contacts | 6 |
|---|---|
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-113 |
| Ambient temperature | -40°C ~ +80°C(fixed installation) / -20°C ~ +80°C(flexible installation) |
| Connector insert | TPU+GF |
| Connector contacts | Brass with gold plated |
| Coupling nut/screw | Brass with nickel plated |
| Seal/O-ring | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽10mΩ |
| Earth tag/pin | Available |
| IP rating | IP67 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 12A(Power Pin), 0.5A(Data Pin) |
| Rated voltage | 50V AC/ DC |

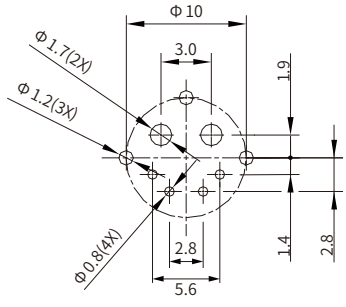
## Part Number

| Pins | Male | Female |
|---|---|---|
| 6 | MB12MBSY306ST-2 | MB12FBSY306ST-2 |

## Panel Cut-out Dimensions



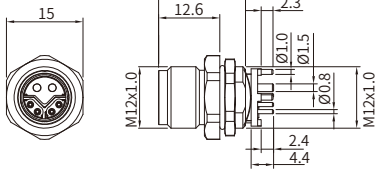

## PCB Layout



# M12 Y3-coding

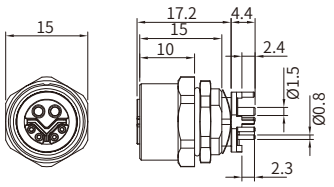
## M12 Y3-coding Straight Connector, Panel Mount, PCB, Rear fastened, With Earth Pin

Male




RoHS

Female




RoHS

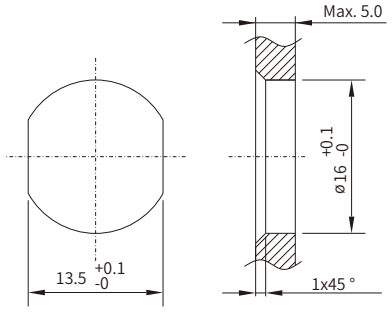
## Specifications

| Contacts | 6 |
|---|---|
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-113 |
| Ambient temperature | -40°C ~ +80°C(fixed installation) / -20°C ~ +80°C(flexible installation) |
| Connector insert | TPU+GF |
| Connector contacts | Brass with gold plated |
| Coupling nut/screw | Brass with nickel plated |
| Seal/O-ring | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽10mΩ |
| Earth tag/pin | Available |
| IP rating | IP67 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 12A(Power Pin), 0.5A(Data Pin) |
| Rated voltage | 50V AC/ DC |

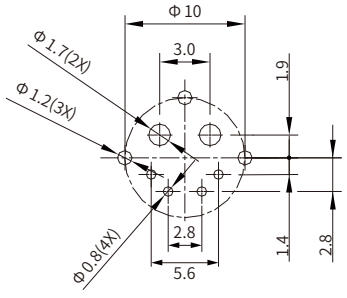
## Part Number

| Pins | Male | Female |
|---|---|---|
| 6 | MB12MBSY3RF06ST-2 | MB12FBSY3RF06ST-2 |

## Panel Cut-out Dimensions



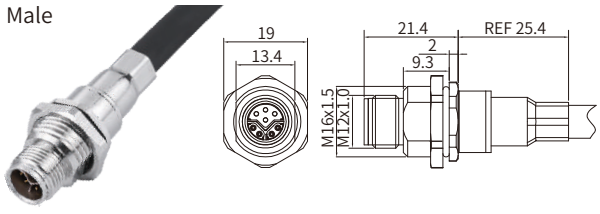

## PCB Layout



# M12 Y4-coding

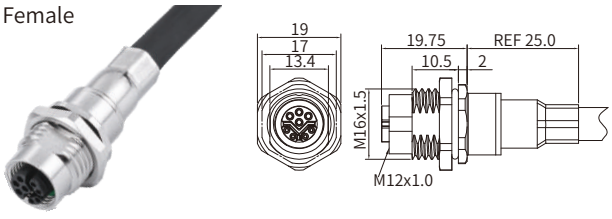
## M12 Y4-coding Straight Connector, Panel, Front Mount, Shielded

Male




RoHS

Female




RoHS

## Specifications

| Contacts | 8 |
|---|---|
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-113 |
| Ambient temperature | -15°C~+85°C (flexible installation), -30°C~+85°C (fixed installation) |
| Customized temperature | -25°C ~ +85°C (flexible installation), -40°C ~ +85°C (fixed installation) |
| Connector insert | TPU+GF |
| Connector contacts | Brass with gold plated |
| Coupling nut/screw | Brass with nickel plated |
| Seal/O-ring | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽10mΩ |
| Shielding | Available |
| IP rating | IP67 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 6 A(Power pins) / 0.5A(Data pins) |
| Rated voltage | 50V AC/ DC |
| Wire gauge | 0.6 $mm^2$ (AWG 20)(Power pins)/ 0.15 $mm^2$ (AWG 26)(Data pins) |

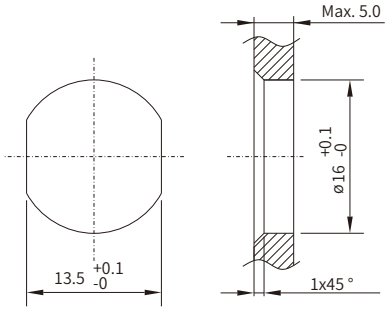
## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 8 | 1m | MB12MCSY4FF08ST-10CB25-2 | MB12MCSY4FF08ST-10RB25-2 | MB12FCSY4FF08ST-10CB25-2 | MB12FCSY4FF08ST-10RB25-2 |
| | 3m | MB12MCSY4FF08ST-30CB25-2 | MB12MCSY4FF08ST-30RB25-2 | MB12FCSY4FF08ST-30CB25-2 | MB12FCSY4FF08ST-30RB25-2 |
| | 5m | MB12MCSY4FF08ST-50CB25-2 | MB12MCSY4FF08ST-50RB25-2 | MB12FCSY4FF08ST-50CB25-2 | MB12FCSY4FF08ST-50RB25-2 |

## Default wire colors

| Pin No. | |
|---|---|
| Pin 1(Data) | WH |
| Pin 2(Data) | OR |
| Pin 3(Data) | RD |
| Pin 4(Data) | GN |
| Pin 5(Power) | BU |
| Pin 6(Power) | WH |
| Pin 7(Power) | BN |
| Pin 8(Power) | BK |
| Shell | Braid |

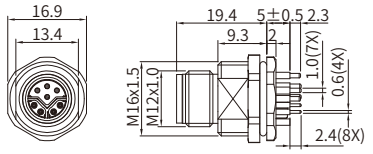
## Panel Cut-out Dimensions



# M12 Y4-coding

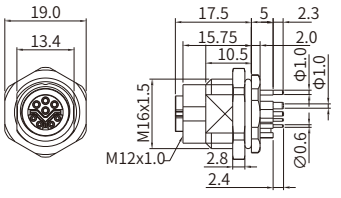
## M12 Y4-coding Straight Connector, Panel Mount, PCB, Front fastened, With Earth Pin

Male




RoHS

Female




RoHS

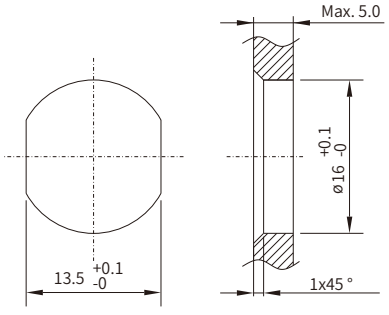
## Specifications

| Contacts | 8 |
|---|---|
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-113 |
| Ambient temperature | -40°C ~ +80°C(fixed installation) / -20°C ~ +80°C(flexible installation) |
| Connector insert | TPU+GF |
| Connector contacts | Brass with gold plated |
| Coupling nut/screw | Brass with nickel plated |
| Seal/O-ring | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽10mΩ |
| Earth tag/pin | Available |
| IP rating | IP67 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 6A(Power Pin), 0.5A(Data Pin) |
| Rated voltage | 50V AC/ DC |

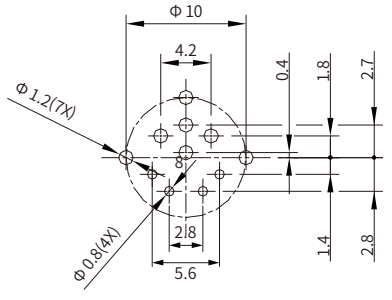
## Part Number

| Pins | Male | Female |
|---|---|---|
| 8 | MB12MBSY408ST-2 | MB12FBSY408ST-2 |

## Panel Cut-out Dimensions



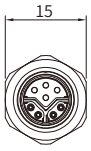

## PCB Layout

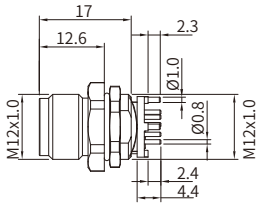


# M12 Y4-coding

## M12 Y4-coding Straight Connector, Panel Mount, PCB, Rear fastened, With Earth Pin

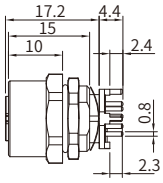
Male




RoHS

Female




RoHS

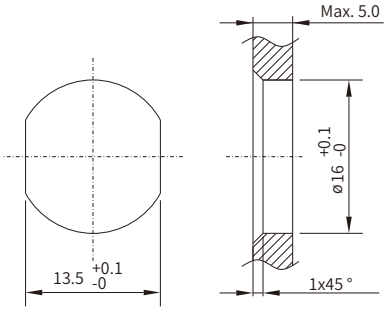
## Specifications

| Contacts | 8 |
|---|---|
| Pin layout(Male) | |
| Pin layout(Female) | |
| Standard | IEC 61076-2-113 |
| Ambient temperature | -40°C ~ +80°C(fixed installation) / -20°C ~ +80°C(flexible installation) |
| Connector insert | TPU+GF |
| Connector contacts | Brass with gold plated |
| Coupling nut/screw | Brass with nickel plated |
| Seal/O-ring | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽10mΩ |
| Earth tag/pin | Available |
| IP rating | IP67 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 6A(Power Pin), 0.5A(Data Pin) |
| Rated voltage | 50V AC/ DC |

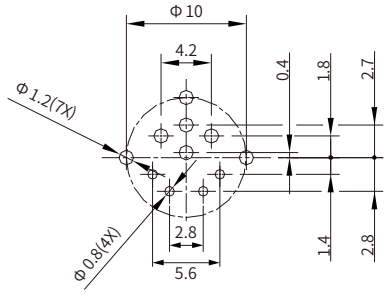
## Part Number

| Pins | Male | Female |
|---|---|---|
| 8 | MB12MBSY4RF08ST-2 | MB12FBSY4RF08ST-2 |

## Panel Cut-out Dimensions

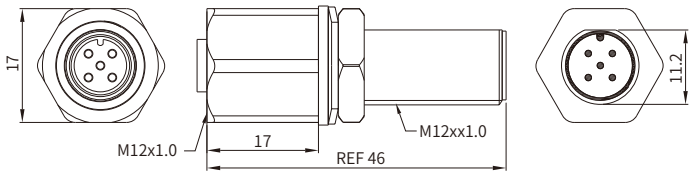



## PCB Layout



# M12 Adapter

## M12 A-coding Male-Female Panel Mount, M12 Front fastened




RoHS

## Specifications

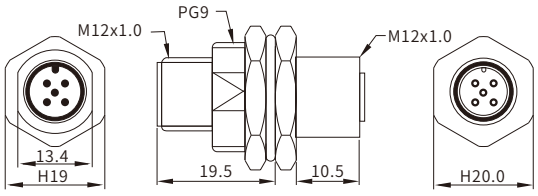
| Contacts | 4 | 5 |
|---|---|---|
| Pin layout(Male) | | |
| Pin layout(Female) | | |
| Standard | IEC 61076-2-101 | |
| Ambient temperature | -25°C ~ +90°C | |
| Connector insert | PA+GF / TPU | |
| Connector contacts | Brass with gold plated | |
| Coupling nut/screw | Brass with nickel plated | |
| Seal/O-ring | Epoxy resin / FKM | |
| Insulation resistance | ⩾100MΩ | |
| Contact resistance | ⩽5mΩ | |
| Shielding | Available | |
| IP rating | IP67, IP68 in locked condition | |
| Mating endurance | >500 cycles | |
| Rated current | 4 A | |
| Rated voltage | 250V AC/DC | 60V AC/DC |
| Panel cut-out | Refer to page 416 | |

## Part Number

| Pins | Male&Female |
|---|---|
| 4 | MT-007 |
| 5 | MT-008 |

# M12 Adapter

## M12 A-coding Male-Female Panel Mount, PG9 Front fastened




RoHS

## Specifications

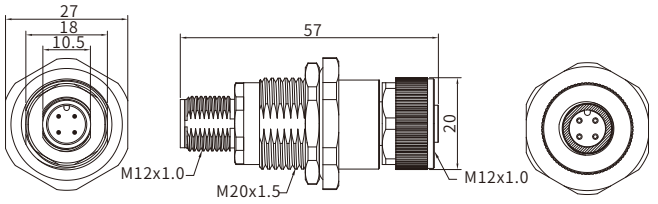
| Contacts | 4 | 5 | 8 | 12 |
|---|---|---|---|---|
| Pin layout(Male) | | | | |
| Pin layout(Female) | | | | |
| Standard | IEC 61076-2-101 | | | |
| Ambient temperature | -25°C ~ +90°C | | | |
| Connector insert | PA+GF / TPU | | | |
| Connector contacts | Brass with gold plated | | | |
| Coupling nut/screw | Brass with nickel plated | | | |
| Seal/O-ring | Epoxy resin / FKM | | | |
| Insulation resistance | ⩾100MΩ | | | |
| Contact resistance | ⩽5mΩ | | | |
| Shielding | Available | | | |
| IP rating | IP67, IP68 in locked condition | | | |
| Mating endurance | >500 cycles | | | |
| Rated current | 4 A | | 2 A | 1.5 A |
| Rated voltage | 250V AC/DC | 60V AC/DC | 30V AC/DC | |
| Panel cut-out | Refer to page 416 | | | |

## Part Number

| Pins | Male&Female |
|---|---|
| 4 | MT-009 |
| 5 | MT-010 |
| 8 | MT-074 |
| 12 | MT-075 |

# M12 Adapter

## M12 A-coding Male-Female Panel Mount, Shielded




RoHS

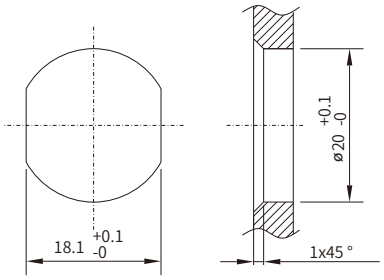
## Specifications

| Contacts | 4 | 5 |
|---|---|---|
| Pin layout(Male) | | |
| Pin layout(Female) | | |
| Standard | IEC 61076-2-101 | |
| Ambient temperature | -25°C ~ +90°C | |
| Connector insert | PA+GF / TPU | |
| Connector contacts | Brass with gold plated | |
| Coupling nut/screw | Brass with nickel plated | |
| Seal/O-ring | Epoxy resin / FKM | |
| Insulation resistance | ⩾100MΩ | |
| Contact resistance | ⩽5mΩ | |
| Shielding | Available | |
| IP rating | IP67, IP68 in locked condition | |
| Mating endurance | >500 cycles | |
| Rated current | 4 A | |
| Rated voltage | 250V AC/DC | 60V AC/DC |

## Part Number

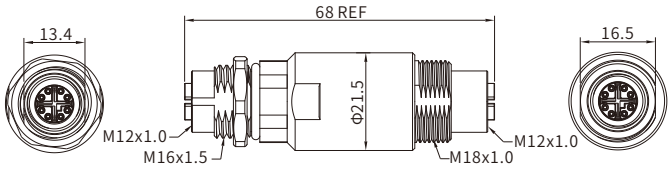
| Pins | Male&Female |
|---|---|
| 4 | MT-076 |
| 5 | MT-077 |

## Panel Cut-out Dimensions



# M12 Adaptor

## M12 X-coding Female-Female Panel Mount, Shielded




RoHS

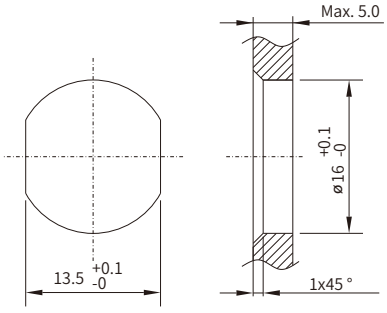
## Specifications

| Contacts | 8 |
|---|---|
| Pin layout(Female) | |
| Standard | IEC 61076-2-109 |
| Ambient temperature | -25°C ~ +90°C |
| Connector insert | PA / TPU |
| Connector contacts | Brass with gold plated |
| Coupling nut/screw | Brass with nickel plated |
| Seal/O-ring | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽10mΩ |
| Shielding | Available |
| IP rating | IP67, IP68 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 4 A |
| Rated voltage | 50V AC 60V DC |

## Part Number

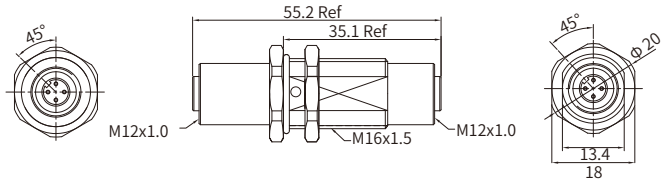
| Pins | Male&Female |
|---|---|
| 8 | MT-078 |

## Panel Cut-out Dimensions



# M12 Adaptor

## M12 A-coding Female-Female Panel Mount, Shielded, M16 Front fastened




**RoHS**

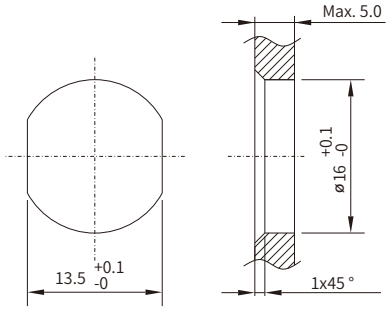
## Specifications

| Contacts | 4 | 5 |
|---|---|---|
| Pin layout(Female) | | |
| Standard | IEC 61076-2-101 | |
| Ambient temperature | -25°C ~ +90°C | |
| Connector insert | PA / TPU | |
| Connector contacts | Brass with gold plated | |
| Coupling nut/screw | Brass with nickel plated | |
| Seal/O-ring | FKM | |
| Insulation resistance | ⩾100MΩ | |
| Contact resistance | ⩽5mΩ | |
| Shielding | Available | |
| IP rating | IP67, IP68 in locked condition | |
| Mating endurance | >500 cycles | |
| Rated current | 4 A | |
| Rated voltage | 250V AC / DC | 60V AC/DC |

## Part Number

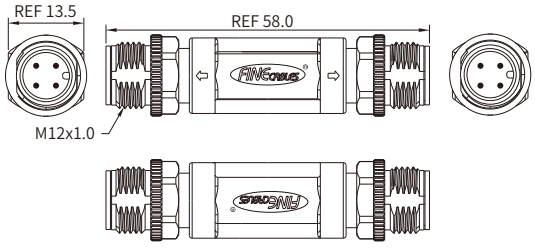
| Pins | Male&Female |
|---|---|
| 4 | MT-082 |
| 5 | MT-083 |

## Panel Cut-out Dimensions



# M12 Adaptor

## M12 I-Adapter, Male-Male




RoHS

## Specifications

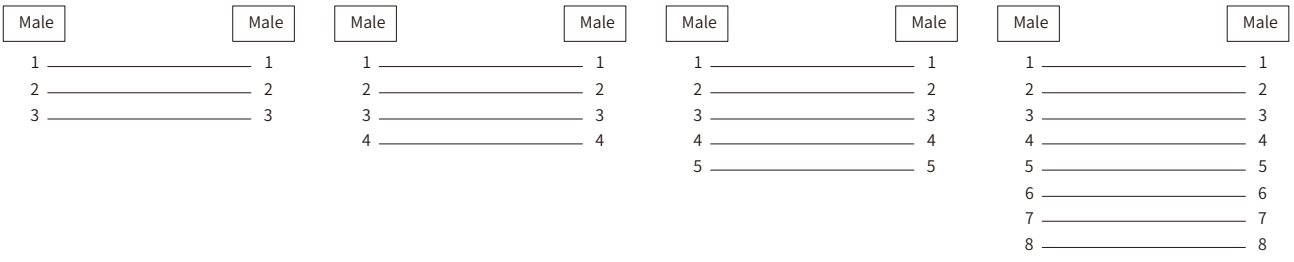
| Contacts | | 3 | 4 | 5 | 8 |
|---|---|---|---|---|---|
| Pin layout (Male) | A | | | | |
| | B | | | | |
| | D | | | | |

| | | | |
|---|---|---|---|
| Standard | IEC 61076-2-101 | | |
| Ambient temperature | -25°C ~ +85°C | | |
| Connector insert | TPU; PA | | |
| Connector contacts | Brass with gold plated | | |
| Coupling nut/screw | Zinc alloy with nickel plated | | |
| Connector overmold | TPU | | |
| Seal/O-ring | Epoxy resin / FKM | | |
| Insulation resistance | ⩾100MΩ | | |
| Contact resistance | ⩽5mΩ | | |
| Shielding | Unavailable | | |
| IP rating | IP67, IP68 in locked condition | | |
| Mating endurance | >500 cycles | | |
| Rated current | 4 A | | 2 A |
| Rated voltage | 250V AC/DC | 60V AC/DC | 30V AC/DC |

## Part Number

| Pins | Male-Male |
|---|---|
| 3 | MI-A03-0 |
| | MI-B03-0 |
| 4 | MI-A04-0 |
| | MI-B04-0 |
| | MI-D04-0 |
| 5 | MI-A05-0 |
| | MI-B05-0 |
| 8 | MI-A08-0 |

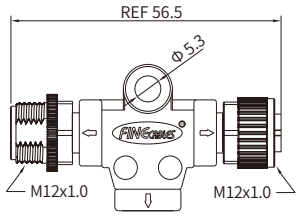
## Circuit diagram



# M12 Adaptor

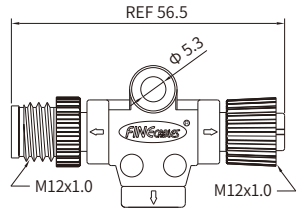
## M12 I-Adapter, Male-Female

Fix screw



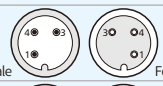
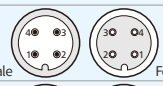
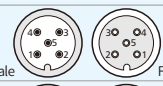
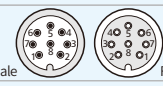
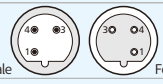
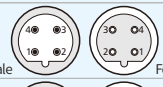
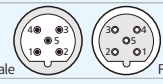
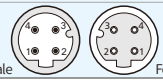

RoHS

Plastic fix screw




RoHS

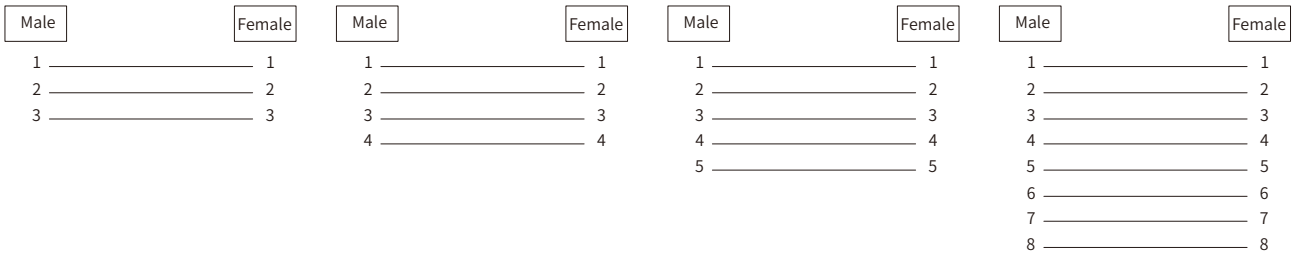
## Specifications

| Contacts | | 3 | 4 | 5 | 8 |
|---|---|---|---|---|---|
| Pin layout (Male / Female) | A |  |  |  |  |
| | B |  |  |  | |
| | D | |  | | |
| Standard | | IEC 61076-2-101 | | | |
| Ambient temperature | | -25°C ~ +85°C | | | |
| Connector insert | | TPU; PA | | | |
| Connector contacts | | Brass with gold plated | | | |
| Coupling nut/screw | | Zinc alloy with nickel plated; PA+GF | | | |
| Connector overmold | | TPU | | | |
| Seal/O-ring | | FKM | | | |
| Insulation resistance | | ⩾100MΩ | | | |
| Contact resistance | | ⩽5mΩ | | | |
| Shielding | | Unavailable | | | |
| IP rating | | IP67, IP68 in locked condition | | | |
| Mating endurance | | >500 cycles | | | |
| Rated current | | 4 A | | | 2 A |
| Rated voltage | | 250V AC/DC | | 60V AC/DC | 30V AC/DC |

## Part Number

| Pins | Male-Female | |
|---|---|---|
| | Fix screw | Plastic fix screw |
| 3 | MI-A03 | MIP-A03 |
| | MI-B03 | MIP-B03 |
| 4 | MI-A04 | MIP-A04 |
| | MI-B04 | MIP-B04 |
| | MI-D04 | MIP-D04 |
| 5 | MI-A05 | MIP-A05 |
| | MI-B05 | MIP-B05 |
| 8 | MI-A08 | MIP-A08 |

## Circuit diagram

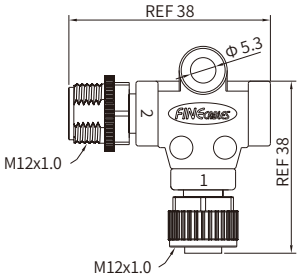


# M12 Adaptor

## M12 L-Adapter, Male-Female

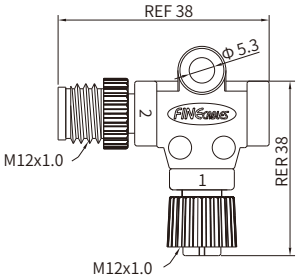
Fix screw

RoHS

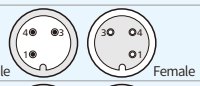
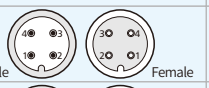
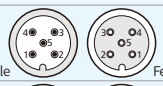
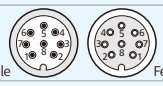
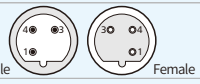
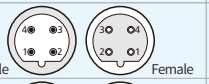
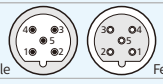
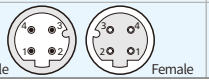



Plastic fix screw

RoHS



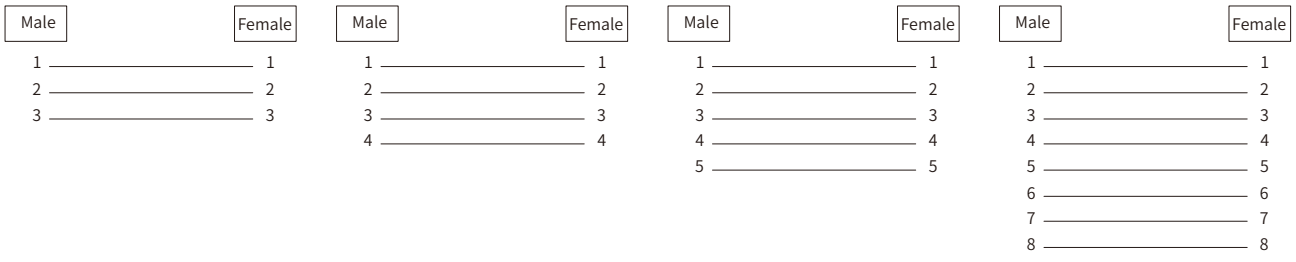

## Specifications

| Contacts | | 3 | 4 | 5 | 8 |
|---|---|---|---|---|---|
| Pin layout (Male / Female) | A |  |  |  |  |
| | B |  |  |  | |
| | D | |  | | |
| Standard | | IEC 61076-2-101 | | | |
| Ambient temperature | | -25°C ~ +85°C | | | |
| Connector insert | | TPU; PA | | | |
| Connector contacts | | Brass with gold plated | | | |
| Coupling nut/screw | | Zinc alloy with nickel plated; PA+GF | | | |
| Connector overmold | | TPU | | | |
| Seal/O-ring | | FKM | | | |
| Insulation resistance | | ⩾100MΩ | | | |
| Contact resistance | | ⩽5mΩ | | | |
| Shielding | | Unavailable | | | |
| IP rating | | IP67, IP68 in locked condition | | | |
| Mating endurance | | >500 cycles | | | |
| Rated current | | 4 A | | | 2 A |
| Rated voltage | | 250V AC/DC | | 60V AC/DC | 30V AC/DC |

## Part Number

| Pins | Male-Female | |
|---|---|---|
| | Fix screw | Plastic fix screw |
| 3 | ML-A03 | MLP-A03 |
| | ML-B03 | MLP-B03 |
| 4 | ML-A04 | MLP-A04 |
| | ML-B04 | MLP-B04 |
| | ML-D04 | MLP-D04 |
| 5 | ML-A05 | MLP-A05 |
| | ML-B05 | MLP-B05 |
| 8 | ML-A08 | MLP-A08 |

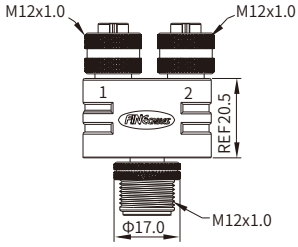
## Circuit diagram



# M12 Splitter

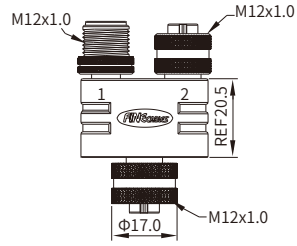
## M12 Y-Splitter

Male-2*Female



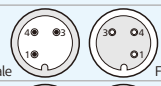
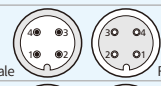
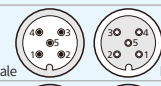
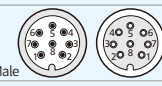
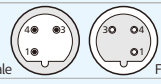
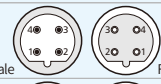
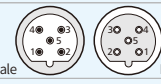
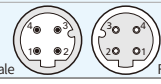

RoHS

Female-Male-Female




RoHS

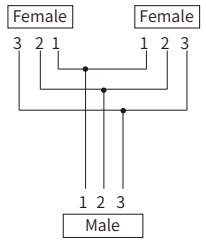
## Specifications

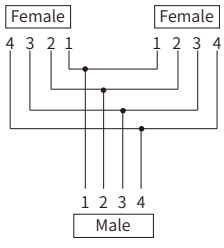
| Contacts | | 3 | 4 | 5 | 8 |
|---|---|---|---|---|---|
| Pin layout (Male / Female) | A |  |  |  |  |
| | B |  |  |  | |
| | D | |  | | |
| Ambient temperature | | -25°C ~ +85°C | | | |
| Connector insert | | TPU; PA | | | |
| Connector contacts | | Brass with gold plated | | | |
| Coupling nut/screw | | Brass with nickel plated | | | |
| Connector overmold | | PVC | | | |
| Seal/O-ring | | FKM | | | |
| Insulation resistance | | ⩾100MΩ | | | |
| Contact resistance | | ⩽5mΩ | | | |
| Shielding | | Available / Unavailable | | | |
| IP rating | | IP67, IP68 in locked condition | | | |
| Mating endurance | | >500 cycles | | | |
| Rated current | | 4 A | | | 2 A |
| Rated voltage | | 250V AC/DC | | 60V AC/DC | 30V AC/DC |

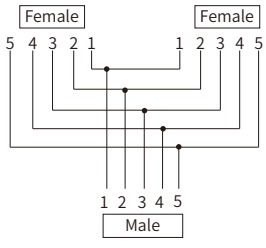
## Part Number

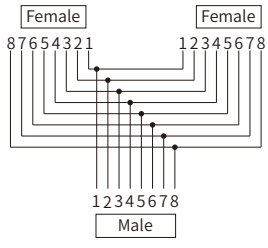
| Pins | Male-2*Female | | Female-Male-Female | |
|---|---|---|---|---|
| | Unshielded | Shielded | Unshielded | Shielded |
| 3 | MY1-A03 | MYS1-A03 | MY2-A03 | MYS2-A03 |
| | MY1-B03 | MYS1-B03 | MY2-B03 | MYS2-B03 |
| 4 | MY1-A04 | MYS1-A04 | MY2-A04 | MYS2-A04 |
| | MY1-B04 | MYS1-B04 | MY2-B04 | MYS2-B04 |
| | MY1-D04 | MYS1-D04 | MY2-D04 | MYS2-D04 |
| 5 | MY1-A05 | MYS1-A05 | MY2-A05 | MYS2-A05 |
| | MY1-B05 | MYS1-B05 | MY2-B05 | MYS2-B05 |
| 8 | MY1-A08 | MYS1-A08 | MY2-A08 | MYS2-A08 |

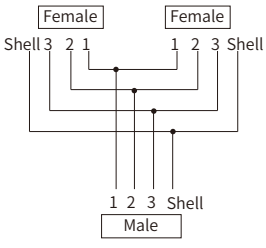
## Circuit diagram

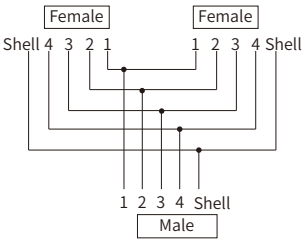


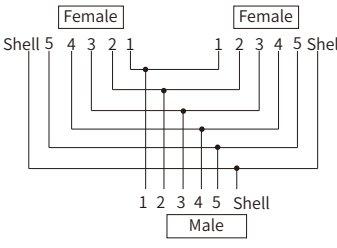



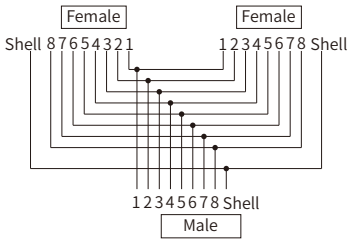



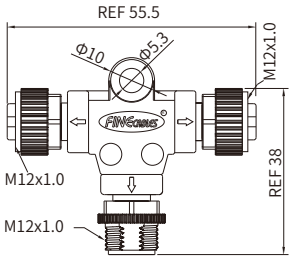



# M12 Splitter

## M12 T-Splitter, Female-Male-Female

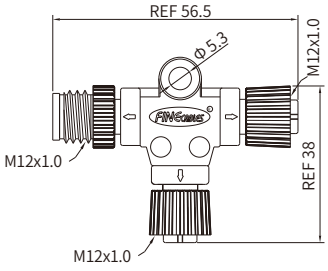
Fix screw

RoHS

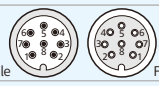



Plastic fix screw

RoHS



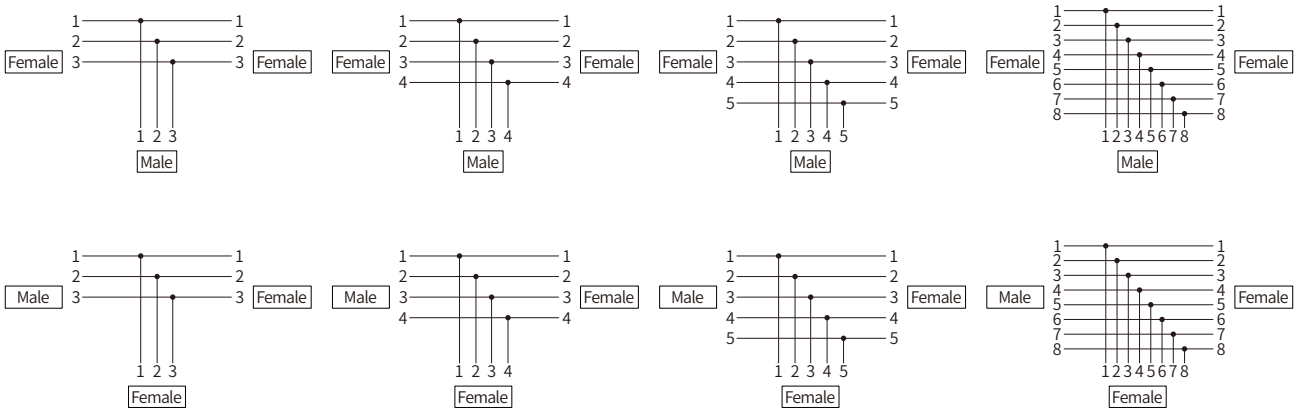

## Specifications

| Contacts | | 3 | 4 | 5 | 8 |
|---|---|---|---|---|---|
| Pin layout (Male / Female) | A | | | |  |
| | B | | | | |
| | D | | | | |
| Standard | | IEC 61076-2-101 | | | |
| Ambient temperature | | -25°C ~ +85°C | | | |
| Connector insert | | TPU; PA | | | |
| Connector contacts | | Brass with gold plated | | | |
| Coupling nut/screw | | Zinc alloy with nickel plated; PA+GF | | | |
| Connector overmold | | TPU | | | |
| Seal/O-ring | | FKM | | | |
| Insulation resistance | | ⩾100MΩ | | | |
| Contact resistance | | ⩽5mΩ | | | |
| Shielding | | Unavailable | | | |
| IP rating | | IP67, IP68 in locked condition | | | |
| Mating endurance | | >500 cycles | | | |
| Rated current | | 4 A | | | 2 A |
| Rated voltage | | 250V AC/DC | | 60V AC/DC | 30V AC/DC |

## Part Number

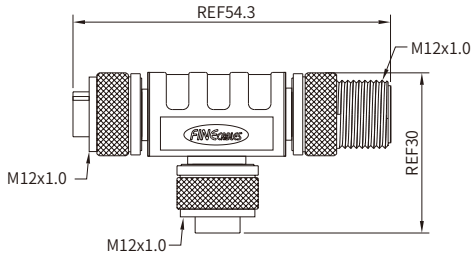
| Pins | Female-Male-Female | |
|---|---|---|
| | Fix screw | Plastic fix screw |
| 3 | MT-A03 | MTP-A03 |
| | MT-B03 | MTP-B03 |
| 4 | MT-A04 | MTP-A04 |
| | MT-B04 | MTP-B04 |
| | MT-D04 | MTP-D04 |
| 5 | MT-A05 | MTP-A05 |
| | MT-B05 | MTP-B05 |
| 8 | MT-A08 | MTP-A08 |

## Circuit diagram



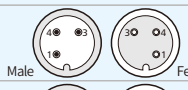
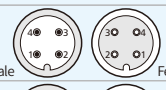
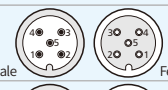
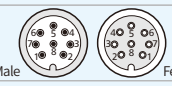
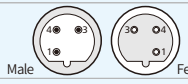
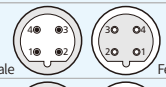
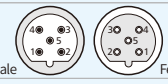
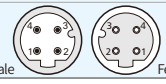
# M12 Splitter

## M12 T-Splitter, Female-Male-Female, Shielded




**RoHS**

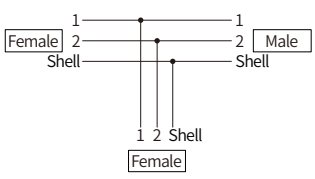
## Specifications

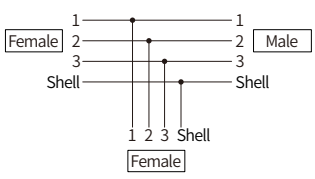
| Contacts | | 3 | 4 | 5 | 8 |
|---|---|---|---|---|---|
| Pin layout (Male / Female) | A |  |  |  |  |
| | B |  |  |  | |
| | D | |  | | |
| Standard | | IEC 61076-2-101 | | | |
| Ambient temperature | | -25°C ~ +85°C | | | |
| Connector insert | | TPU; PA | | | |
| Connector contacts | | Brass with gold plated | | | |
| Coupling nut/screw | | Brass with nickel plated | | | |
| Connector overmold | | TPU | | | |
| Seal/O-ring | | Epoxy resin/FKM | | | |
| Insulation resistance | | ⩾100MΩ | | | |
| Contact resistance | | ⩽5mΩ | | | |
| Shielding | | Available | | | |
| IP rating | | IP67, IP68 in locked condition | | | |
| Mating endurance | | >500 cycles | | | |
| Rated current | | 4 A | | | 2 A |
| Rated voltage | | 250V AC/DC | | 60V AC/DC | 30V AC/DC |

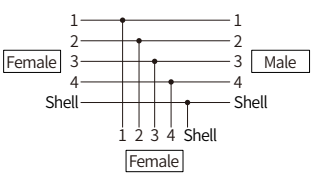
## Part Number

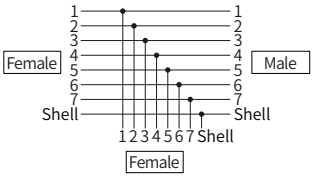
| Pins | Female-Male-Female |
|---|---|
| 3 | MTS-A03 |
| | MTS-B03 |
| 4 | MTS-A04 |
| | MTS-B04 |
| | MTS-D04 |
| 5 | MTS-A05 |
| | MTS-B05 |
| 8 | MTS-A08 |

## Circuit diagram



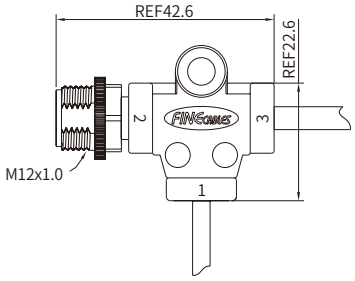



# M12 Splitter

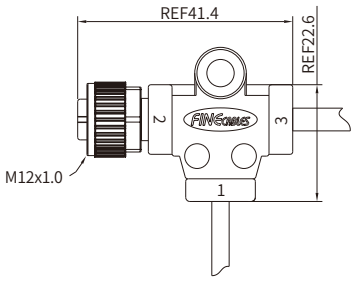
## M12 T-Splitter, with Molded Cable

Male



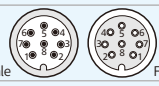

RoHS

Female




RoHS

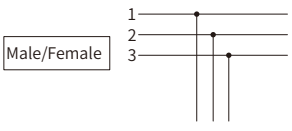
## Specifications

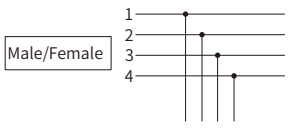
| Contacts | | 3 | 4 | 5 | 8 |
|---|---|---|---|---|---|
| Pin layout (Male / Female) | A | | | |  |
| | B | | | | |
| | D | | | | |
| Standard | | IEC 61076-2-101 | | | |
| Ambient temperature | | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | | | |
| Connector insert | | TPU | | | |
| Connector contacts | | Brass with gold plated | | | |
| Coupling nut/screw | | Zinc alloy with nickel plated | | | |
| Connector overmold | | TPU | | | |
| Seal/O-ring | | FKM | | | |
| Insulation resistance | | ⩾100MΩ | | | |
| Contact resistance | | ⩽5mΩ | | | |
| Shielding | | Unavailable | | | |
| IP rating | | IP67, IP68 in locked condition | | | |
| Mating endurance | | >500 cycles | | | |
| Rated current | | 4 A | | | 2 A |
| Rated voltage | | 250V AC/DC | | 60V AC/DC | 30V AC/DC |
| Wire gauge | | 0.34mm² (AWG22) | | | 0.25mm² (AWG24) |
| Cable jacket | | PVC/PUR | | | |

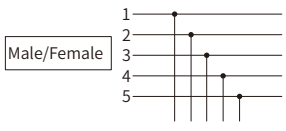
## Part Number

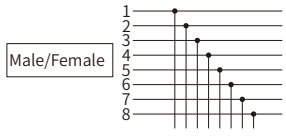
| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 3 | 1m | MTC-MAHD03-10CB34 | MTC-MAHD03-10RB34 | MTC-FAHD03-10CB34 | MTC-FAHD03-10RB34 |
| | 3m | MTC-MAHD03-30CB34 | MTC-MAHD03-30RB34 | MTC-FAHD03-30CB34 | MTC-FAHD03-30RB34 |
| | 1m | MTC-MBHD03-10CB34 | MTC-MBHD03-10RB34 | MTC-FBHD03-10CB34 | MTC-FBHD03-10RB34 |
| | 3m | MTC-MBHD03-30CB34 | MTC-MBHD03-30RB34 | MTC-FBHD03-30CB34 | MTC-FBHD03-30RB34 |
| 4 | 1m | MTC-MAHD04-10CB34 | MTC-MAHD04-10RB34 | MTC-FAHD04-10CB34 | MTC-FAHD04-10RB34 |
| | 3m | MTC-MAHD04-30CB34 | MTC-MAHD04-30RB34 | MTC-FAHD04-30CB34 | MTC-FAHD04-30RB34 |
| | 1m | MTC-MBHD04-10CB34 | MTC-MBHD04-10RB34 | MTC-FBHD04-10CB34 | MTC-FBHD04-10RB34 |
| | 3m | MTC-MBHD04-30CB34 | MTC-MBHD04-30RB34 | MTC-FBHD04-30CB34 | MTC-FBHD04-30RB34 |
| | 1m | MTC-MDHD04-10CB34 | MTC-MDHD04-10RB34 | MTC-FDHD04-10CB34 | MTC-FDHD04-10RB34 |
| | 3m | MTC-MDHD04-30CB34 | MTC-MDHD04-30RB34 | MTC-FDHD04-30CB34 | MTC-FDHD04-30RB34 |
| 5 | 1m | MTC-MAHD05-10CB34 | MTC-MAHD05-10RB34 | MTC-FAHD05-10CB34 | MTC-FAHD05-10RB34 |
| | 3m | MTC-MAHD05-30CB34 | MTC-MAHD05-30RB34 | MTC-FAHD05-30CB34 | MTC-FAHD05-30RB34 |
| | 1m | MTC-MBHD05-10CB34 | MTC-MBHD05-10RB34 | MTC-FBHD05-10CB34 | MTC-FBHD05-10RB34 |
| | 3m | MTC-MBHD05-30CB34 | MTC-MBHD05-30RB34 | MTC-FBHD05-30CB34 | MTC-FBHD05-30RB34 |
| 8 | 1m | MTC-MAHD08-10CB25 | MTC-MAHD08-10RB25 | MTC-FAHD08-10CB25 | MTC-FAHD08-10RB25 |
| | 3m | MTC-MAHD08-30CB25 | MTC-MAHD08-30RB25 | MTC-FAHD08-30CB25 | MTC-FAHD08-30RB25 |

## Circuit diagram



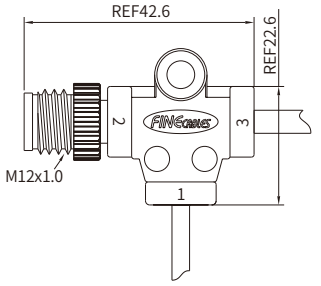



# M12 Splitter

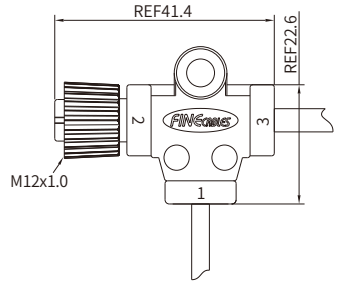
## M12 T-Splitte, Plastic with Molded Cable

Male



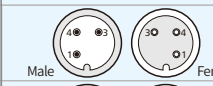
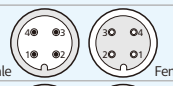
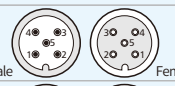
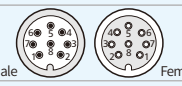
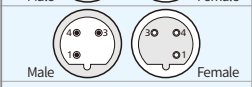
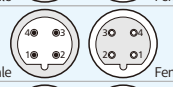
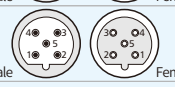
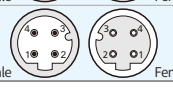

RoHS

Female




RoHS

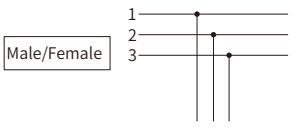
## Specifications

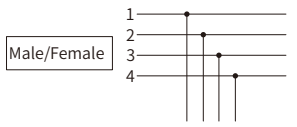
| Contacts | | 3 | 4 | 5 | 8 |
|---|---|---|---|---|---|
| Pin layout (Male / Female) | A |  |  |  |  |
| | B |  |  |  | |
| | D | |  | | |
| Standard | | IEC 61076-2-101 | | | |
| Ambient temperature | | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | | | |
| Connector insert | | TPU | | | |
| Connector contacts | | Brass with gold plated | | | |
| Coupling nut/screw | | PA+GF | | | |
| Connector overmold | | TPU | | | |
| Seal/O-ring | | FKM | | | |
| Insulation resistance | | ⩾100MΩ | | | |
| Contact resistance | | ⩽5mΩ | | | |
| Shielding | | Unavailable | | | |
| IP rating | | IP67, IP68 in locked condition | | | |
| Mating endurance | | >500 cycles | | | |
| Rated current | | 4 A | | | 2 A |
| Rated voltage | | 250V AC/DC | | 60V AC/DC | 30V AC/DC |
| Wire gauge | | 0.34mm² (AWG22) | | | 0.25mm² (AWG24) |
| Cable jacket | | PVC/PUR | | | |

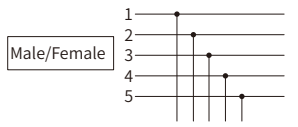
## Part Number

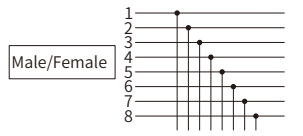
| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 3 | 1m | MTC-MAP03-10CB34 | MTC-MAP03-10RB34 | MTC-FAP03-10CB34 | MTC-FAP03-10RB34 |
| | 3m | MTC-MAP03-30CB34 | MTC-MAP03-30RB34 | MTC-FAP03-30CB34 | MTC-FAP03-30RB34 |
| | 1m | MTC-MBP03-10CB34 | MTC-MBP03-10RB34 | MTC-FBP03-10CB34 | MTC-FBP03-10RB34 |
| | 3m | MTC-MBP03-30CB34 | MTC-MBP03-30RB34 | MTC-FBP03-30CB34 | MTC-FBP03-30RB34 |
| 4 | 1m | MTC-MAP04-10CB34 | MTC-MAP04-10RB34 | MTC-FAP04-10CB34 | MTC-FAP04-10RB34 |
| | 3m | MTC-MAP04-30CB34 | MTC-MAP04-30RB34 | MTC-FAP04-30CB34 | MTC-FAP04-30RB34 |
| | 1m | MTC-MBP04-10CB34 | MTC-MBP04-10RB34 | MTC-FBP04-10CB34 | MTC-FBP04-10RB34 |
| | 3m | MTC-MBP04-30CB34 | MTC-MBP04-30RB34 | MTC-FBP04-30CB34 | MTC-FBP04-30RB34 |
| | 1m | MTC-MDP04-10CB34 | MTC-MDP04-10RB34 | MTC-FDP04-10CB34 | MTC-FDP04-10RB34 |
| | 3m | MTC-MDP04-30CB34 | MTC-MDP04-30RB34 | MTC-FDP04-30CB34 | MTC-FDP04-30RB34 |
| 5 | 1m | MTC-MAP05-10CB34 | MTC-MAP05-10RB34 | MTC-FAP05-10CB34 | MTC-FAP05-10RB34 |
| | 3m | MTC-MAP05-30CB34 | MTC-MAP05-30RB34 | MTC-FAP05-30CB34 | MTC-FAP05-30RB34 |
| | 1m | MTC-MBP05-10CB34 | MTC-MBP05-10RB34 | MTC-FBP05-10CB34 | MTC-FBP05-10RB34 |
| | 3m | MTC-MBP05-30CB34 | MTC-MBP05-30RB34 | MTC-FBP05-30CB34 | MTC-FBP05-30RB34 |
| 8 | 1m | MTC-MAP08-10CB25 | MTC-MAP08-10RB25 | MTC-FAP08-10CB25 | MTC-FAP08-10RB25 |
| | 3m | MTC-MAP08-30CB25 | MTC-MAP08-30RB25 | MTC-FAP08-30CB25 | MTC-FAP08-30RB25 |

## Circuit diagram



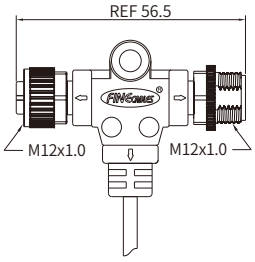



# M12 Splitter

## M12 T-Splitte, Male-Female, Molded Cable

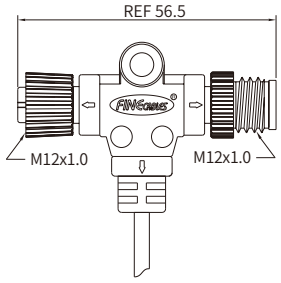
Fix screw

RoHS

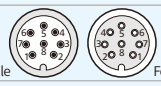



Plastic fix screw

RoHS



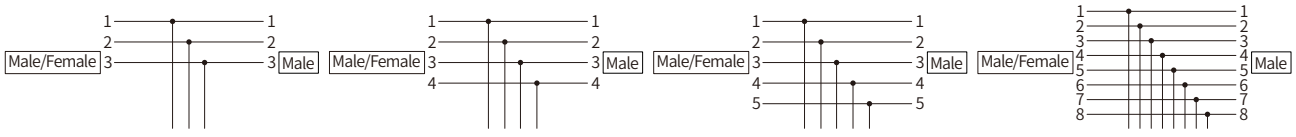

## Specifications

| Contacts | | 3 | 4 | 5 | 8 |
|---|---|---|---|---|---|
| Pin layout (Male / Female) | A | | | |  |
| | B | | | | |
| | D | | | | |
| Standard | | IEC 61076-2-101 | | | |
| Ambient temperature | | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | | | |
| Connector insert | | TPU/PA | | | |
| Connector contacts | | Brass with gold plated | | | |
| Coupling nut/screw | | Zinc alloy with nickel plated; PA+GF | | | |
| Connector overmold | | TPU | | | |
| Seal/O-ring | | FKM | | | |
| Insulation resistance | | ⩾100MΩ | | | |
| Contact resistance | | ⩽5mΩ | | | |
| Shielding | | Unavailable | | | |
| IP rating | | IP67, IP68 in locked condition | | | |
| Mating endurance | | >500 cycles | | | |
| Rated current | | 4 A | | | 2 A |
| Rated voltage | | 250V AC/ DC | | 60V AC/DC | 30V AC/DC |
| Wire gauge | | 0.34mm$^2$ (AWG22) | | | 0.25mm$^2$ (.AWG24) |
| Cable jacket | | PVC/PUR | | | |

## Part Number

| Pins | Cable length | Fix screw | | Plastic fix screw | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 3 | 1m | MTC-MFAHD03-10CB34 | MTC-MFAHD03-10RB34 | MTC-MFAP03-10CB34 | MTC-MFAP03-10RB34 |
| | 3m | MTC-MFAHD03-30CB34 | MTC-MFAHD03-30RB34 | MTC-MFAP03-30CB34 | MTC-MFAP03-30RB34 |
| | 1m | MTC-MFBHD03-10CB34 | MTC-MFBHD03-10RB34 | MTC-MFBP03-10CB34 | MTC-MFBP03-10RB34 |
| | 3m | MTC-MFBHD03-30CB34 | MTC-MFBHD03-30RB34 | MTC-MFBP03-30CB34 | MTC-MFBP03-30RB34 |
| 4 | 1m | MTC-MFAHD04-10CB34 | MTC-MFAHD04-10RB34 | MTC-MFAP04-10CB34 | MTC-MFAP04-10RB34 |
| | 3m | MTC-MFAHD04-30CB34 | MTC-MFAHD04-30RB34 | MTC-MFAP04-30CB34 | MTC-MFAP04-30RB34 |
| | 1m | MTC-MFBHD04-10CB34 | MTC-MFBHD04-10RB34 | MTC-MFBP04-10CB34 | MTC-MFBP04-10RB34 |
| | 3m | MTC-MFBHD04-30CB34 | MTC-MFBHD04-30RB34 | MTC-MFBP04-30CB34 | MTC-MFBP04-30RB34 |
| | 1m | MTC-MFDHD04-10CB34 | MTC-MFDHD04-10RB34 | MTC-MFDP04-10CB34 | MTC-MFDP04-10RB34 |
| | 3m | MTC-MFDHD04-30CB34 | MTC-MFDHD04-30RB34 | MTC-MFDP04-30CB34 | MTC-MFDP04-30RB34 |
| 5 | 1m | MTC-MFAHD05-10CB34 | MTC-MFAHD05-10RB34 | MTC-MFAP05-10CB34 | MTC-MFAP05-10RB34 |
| | 3m | MTC-MFAHD05-30CB34 | MTC-MFAHD05-30RB34 | MTC-MFAP05-30CB34 | MTC-MFAP05-30RB34 |
| | 1m | MTC-MFBHD05-10CB34 | MTC-MFBHD05-10RB34 | MTC-MFBP05-10CB34 | MTC-MFBP05-10RB34 |
| | 3m | MTC-MFBHD05-30CB34 | MTC-MFBHD05-30RB34 | MTC-MFBP05-30CB34 | MTC-MFBP05-30RB34 |
| 8 | 1m | MTC-MFAHD08-10CB25 | MTC-MFAHD08-10RB25 | MTC-MFAP08-10CB25 | MTC-MFAP08-10RB25 |
| | 3m | MTC-MFAHD08-30CB25 | MTC-MFAHD08-30RB25 | MTC-MFAP08-30CB25 | MTC-MFAP08-30RB25 |

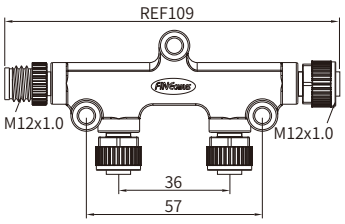
## Circuit diagram



# M12 Splitter

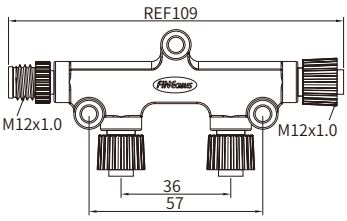
## M12 Multi-Way 4T-Splitter, Male-3*Female

Fix screw



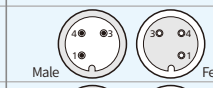
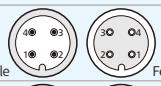
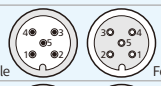
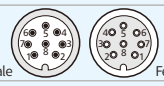
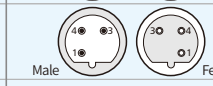
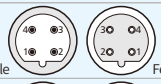
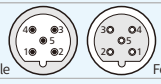
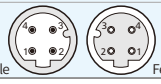

RoHS

Plastic fix screw




RoHS

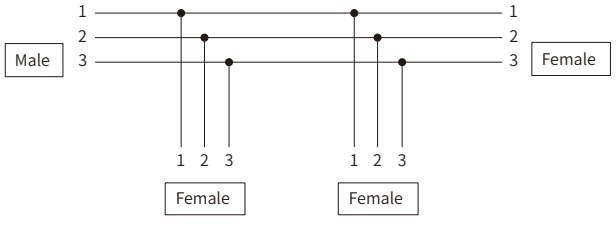
## Specifications

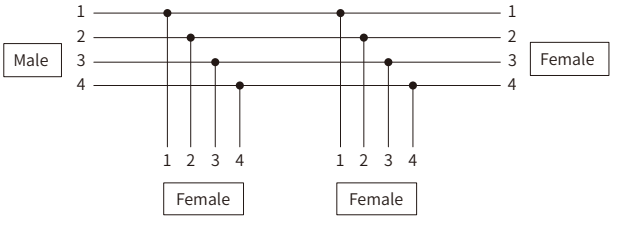
| Contacts | | 3 | 4 | 5 | 8 |
|---|---|---|---|---|---|
| Pin layout (Male / Female) | A |  |  |  |  |
| | B |  |  |  | |
| | D | |  | | |
| Standard | | IEC 61076-2-101 | | | |
| Ambient temperature | | -25°C ~ +85°C | | | |
| Connector insert | | TPU/PA | | | |
| Connector contacts | | Brass with gold plated | | | |
| Coupling nut/screw | | Zinc alloy with nickel plated; PA+GF | | | |
| Connector overmold | | TPU | | | |
| Seal/O-ring | | FKM | | | |
| Insulation resistance | | ⩾100MΩ | | | |
| Contact resistance | | ⩽5mΩ | | | |
| Shielding | | Unavailable | | | |
| IP rating | | IP67, IP68 in locked condition | | | |
| Mating endurance | | >500 cycles | | | |
| Rated current | | 4 A | | | 2 A |
| Rated voltage | | 250V AC/ DC | | 60V AC/DC | 30V AC/DC |

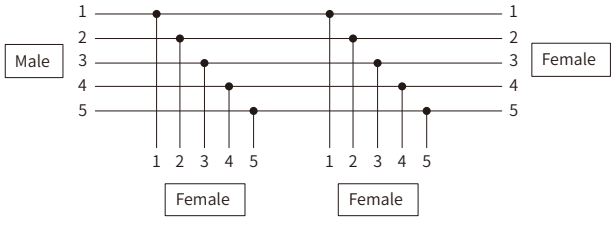
## Part Number

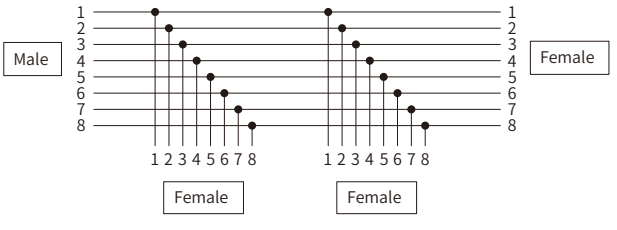
| Pins | Male-3*Female | |
|---|---|---|
| | Fix screw | Plastic fix screw |
| 3 | M4T-A03 | M4TP-A03 |
| | M4T-B03 | M4TP-B03 |
| 4 | M4T-A04 | M4TP-A04 |
| | M4T-B04 | M4TP-B04 |
| | M4T-D04 | M4TP-D04 |
| 5 | M4T-A05 | M4TP-A05 |
| | M4T-B05 | M4TP-B05 |
| 8 | M4T-A08 | M4TP-A08 |

## Circuit diagram



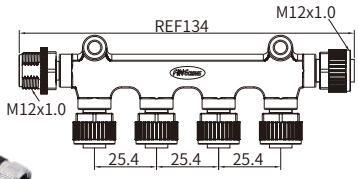



# M12 Splitter

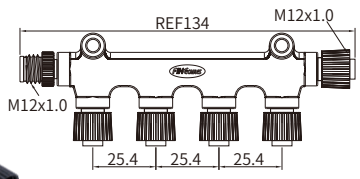
## M12 Multi-Way 6T-Splitter, Male-5*Female

Fix screw



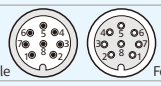
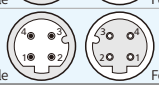

RoHS

Plastic fix screw




RoHS

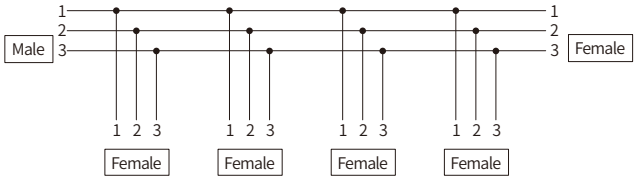
## Specifications

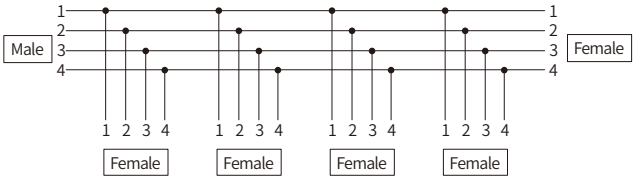
| Contacts | | 3 | 4 | 5 | 8 |
|---|---|---|---|---|---|
| Pin layout (Male / Female) | A | | | |  |
| | B | | | | |
| | D | |  | | |
| Standard | | IEC 61076-2-101 | | | |
| Ambient temperature | | -25°C ~ +85°C | | | |
| Connector insert | | TPU/PA | | | |
| Connector contacts | | Brass with gold plated | | | |
| Coupling nut/screw | | Zinc alloy with nickel plated; PA+GF | | | |
| Connector overmold | | TPU | | | |
| Seal/O-ring | | FKM | | | |
| Insulation resistance | | ⩾100MΩ | | | |
| Contact resistance | | ⩽5mΩ | | | |
| Shielding | | Unavailable | | | |
| IP rating | | IP67, IP68 in locked condition | | | |
| Mating endurance | | >500 cycles | | | |
| Rated current | | 4 A | | | 2 A |
| Rated voltage | | 250V AC/ DC | | 60V AC/DC | 30V AC/DC |

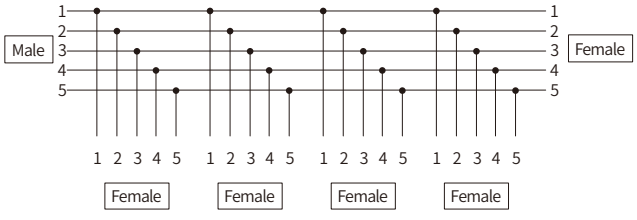
## Part Number

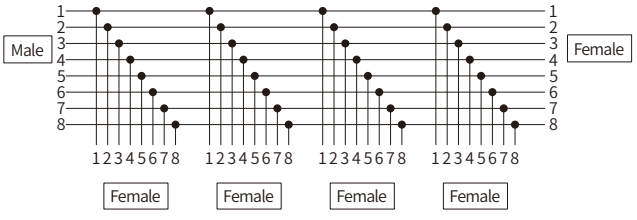
| Pins | Male-5*Female | |
|---|---|---|
| | Fix screw | Plastic fix screw |
| 3 | M6T-A03 | M6TP-A03 |
| | M6T-B03 | M6TP-B03 |
| 4 | M6T-A04 | M6TP-A04 |
| | M6T-B04 | M6TP-B04 |
| | M6T-D04 | M6TP-D04 |
| 5 | M6T-A05 | M6TP-A05 |
| | M6T-B05 | M6TP-B05 |
| 8 | M6T-A08 | M6TP-A08 |

## Circuit diagram



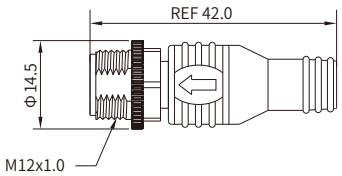



# M12 Terminator

## M12 Terminator

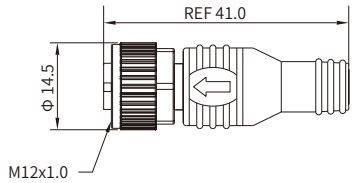
Male




(Connection Diagram: Customized )

RoHS

Female




(Connection Diagram: Customized )

RoHS

## Specifications

| Contacts | | 3 | 4 | 5 | 6 | 8 | 12 | 17 |
|---|---|---|---|---|---|---|---|---|
| Pin layout(Male) | A | | | | | | | |
| | B | | | | | | | |
| | C | (2+PE) | (3+PE) | (4+PE) | (5+PE) | | | |
| | D | | | | | | | |
| Pin layout(Female) | A | | | | | | | |
| | B | | | | | | | |
| | C | (2+PE) | (3+PE) | (4+PE) | (5+PE) | | | |
| | D | | | | | | | |

| | | | | |
|---|---|---|---|---|
| Standard | IEC 61076-2-101 | | | |
| Ambient temperature | -25°C ~ +85°C | | | |
| Connector insert | TPU | | | |
| Connector contacts | Brass with gold plated | | | |
| Coupling nut/screw | Zinc alloy with nickel plated | | | |
| Connector overmold | TPU | | | |
| Seal/O-ring | FKM | | | |
| Insulation resistance | ⩾100MΩ | | | |
| Contact resistance | ⩽5mΩ | | | |
| Shielding | Unavailable | | | |
| IP rating | IP67, IP68 in locked condition | | | |
| Mating endurance | >500 cycles | | | |
| Rated current | 4A | 4A / 2A(C-code) | 2A | 1.5A |
| Rated voltage | 250V AC/DC | 60V AC/DC | 30V AC/DC | |

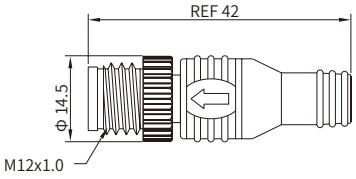
## Part Number

| Pins | Male | Female |
|---|---|---|
| 3 | MA12MAHD03ST-T | MA12FAHD03ST-T |
| | MA12MBHD03ST-T | MA12FBHD03ST-T |
| | MA12MCHD03ST-T | MA12FCHD03ST-T |
| 4 | MA12MAHD04ST-T | MA12FAHD04ST-T |
| | MA12MBHD04ST-T | MA12FBHD04ST-T |
| | MA12MCHD04ST-T | MA12FCHD04ST-T |
| | MA12MDHD04ST-T | MA12FDHD04ST-T |
| 5 | MA12MAHD05ST-T | MA12FAHD05ST-T |
| | MA12MBHD05ST-T | MA12FBHD05ST-T |
| | MA12MCHD05ST-T | MA12FCHD05ST-T |
| 6 | MA12MCHD06ST-T | MA12FCHD06ST-T |
| 8 | MA12MAHD08ST-T | MA12FAHD08ST-T |
| 12 | MA12MAHD12ST-T | MA12FAHD12ST-T |
| 17 | MA12MAHD17ST-T | MA12FAHD17ST-T |

# M12 Terminator

## M12 Plastic Terminator

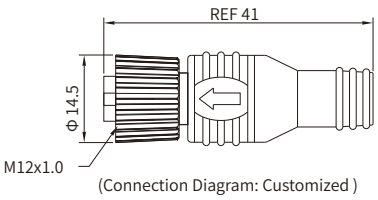
Male




(Connection Diagram: Customized )

RoHS

Female




(Connection Diagram: Customized )

RoHS

## Specifications

| Contacts | | 3 | 4 | 5 | 6 | 8 | 12 | 17 |
|---|---|---|---|---|---|---|---|---|
| Pin layout(Male) | A | | | | | | | |
| | B | | | | | | | |
| | C | (2+PE) | (3+PE) | (4+PE) | (5+PE) | | | |
| | D | | | | | | | |
| Pin layout(Female) | A | | | | | | | |
| | B | | | | | | | |
| | C | (2+PE) | (3+PE) | (4+PE) | (5+PE) | | | |
| | D | | | | | | | |

| | | | | |
|---|---|---|---|---|
| Standard | IEC 61076-2-101 | | | |
| Ambient temperature | -25°C ~ +85°C | | | |
| Connector insert | TPU | | | |
| Connector contacts | Brass with gold plated | | | |
| Coupling nut/screw | PA+GF | | | |
| Connector overmold | TPU | | | |
| Seal/O-ring | FKM | | | |
| Insulation resistance | ⩾100MΩ | | | |
| Contact resistance | ⩽5mΩ | | | |
| Shielding | Unavailable | | | |
| IP rating | IP67, IP68 in locked condition | | | |
| Mating endurance | >500 cycles | | | |
| Rated current | 4A | 4A / 2A(C-code) | 2A | 1.5A |
| Rated voltage | 250V AC/DC | 60V AC/DC | 30V AC/DC | |

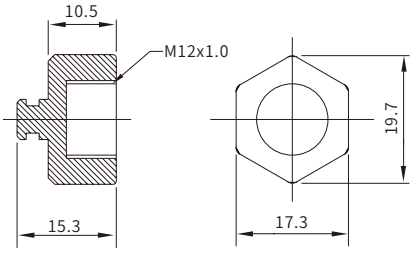
## Part Number

| Pins | Male | Female |
|---|---|---|
| 3 | MA12MAP03ST-T | MA12FAP03ST-T |
| | MA12MBP03ST-T | MA12FBP03ST-T |
| | MA12MCP03ST-T | MA12FCP03ST-T |
| 4 | MA12MAP04ST-T | MA12FAP04ST-T |
| | MA12MBP04ST-T | MA12FBP04ST-T |
| | MA12MCP04ST-T | MA12FCP04ST-T |
| | MA12MDP04ST-T | MA12FDP04ST-T |
| 5 | MA12MAP05ST-T | MA12FAP05ST-T |
| | MA12MBP05ST-T | MA12FBP05ST-T |
| | MA12MCP05ST-T | MA12FCP05ST-T |
| 6 | MA12MCP06ST-T | MA12FCP06ST-T |
| 8 | MA12MAP08ST-T | MA12FAP08ST-T |
| 12 | MA12MAP12ST-T | MA12FAP12ST-T |
| 17 | MA12MAP17ST-T | MA12FAP17ST-T |

# M12 Protection Cap

## M12 Protection Cap for Male Connector

- Cover series: M12
- Gender: for Male
- Locking type: Fix screw
- Part No.: PCNM12x1.0-0

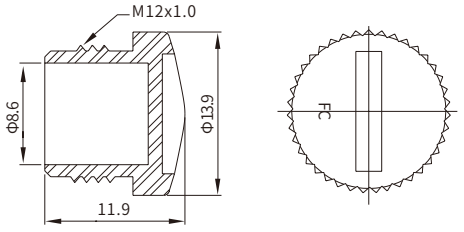


### General information

| | |
|---|---|
| Material: | PA+GF |
| O-ring: | FKM |
| Color: | Black |
| Degree of protection: | IP68 in locked condition |

## M12 Protection Cap for Female Connector

- Cover series: M12
- Gender: for Female
- Locking type: Fix screw
- Part No.: PCSM12x1.0-1

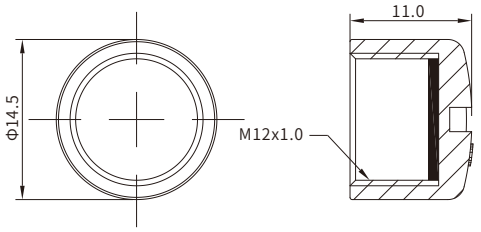


### General information

| | |
|---|---|
| Material: | PA+GF |
| Color: | Black |
| Degree of protection: | IP68 in locked condition |

## M12 Protection Cap for Male Connector

- Cover series: M12
- Gender: for Male
- Locking type: Fix screw
- Part No.: PCNM12x1.0-2



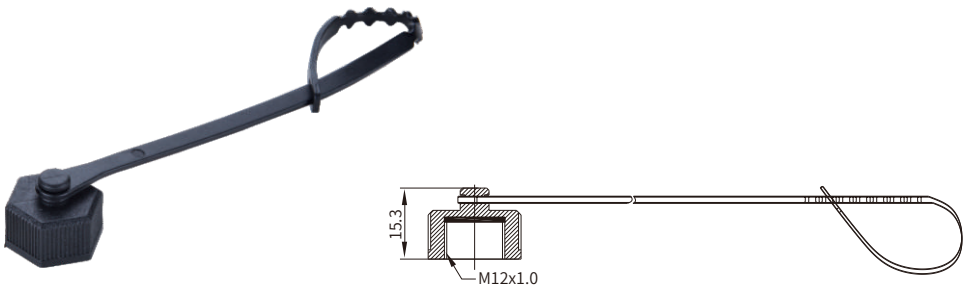
### General information

| | |
|---|---|
| Material: | PA+GF |
| O-ring: | FKM |
| Color: | Black |
| Degree of protection: | IP68 in locked condition |

# M12 Protection Cap

## M12 Protection Cap for Male Molded Cable Connector

- Cover series: M12
- Gender: for Male
- Locking type: Fix screw
- Part No.: PCNM12x1.0-3



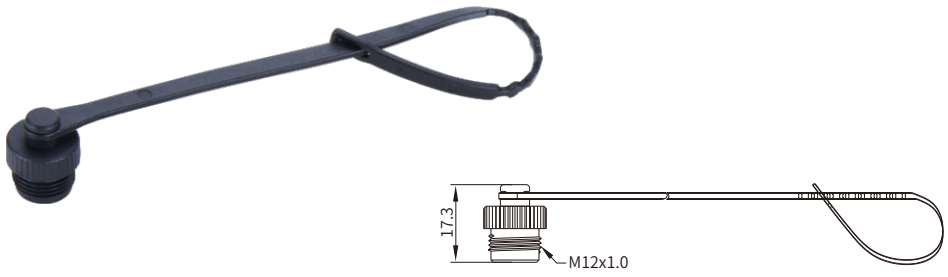

### General information

| | |
|---|---|
| Color: | Black |
| nut/screw: | PA+GF |
| Gasket: | FKM |

| | |
|---|---|
| Loop: | TPU |
| IP rating: | IP68 in locked condition |

## M12 Protection Cap for Female Molded Cable Connector

- Cover series: M12
- Gender: for Female
- Locking type: Fix screw
- Part No.: PCSM12x1.0-2



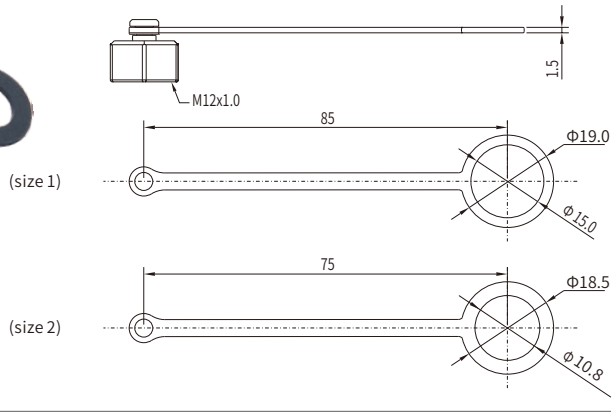

### General information

| | |
|---|---|
| Color: | Black |
| nut/screw: | PA+GF |

| | |
|---|---|
| Loop: | TPU |
| IP rating: | IP68 in locked condition |

## M12 Protection Cap for Male Panel-mount Connector

- Cover series: M12
- Gender: for Male
- Locking type: Fix screw
- Part No.:
  PCNM12x1.0-4(for PG9 thread)
  PCNM12x1.0-1(for M12 thread)




### General information

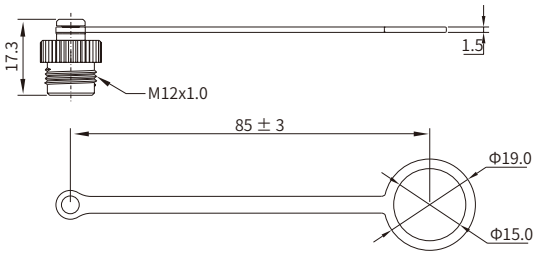
| | |
|---|---|
| Material: | PA+GF |
| O-ring: | FKM |

| | |
|---|---|
| Color: | Black |
| Degree of protection: | IP68 in locked condition |

# M12 Protection Cap

## M12 Protection Cap for Female Panel-mount Connector

- Cover series: M12
- Gender: for Female
- Locking type: Fix screw
- Part No.: PCSM12x1.0-3




## General information

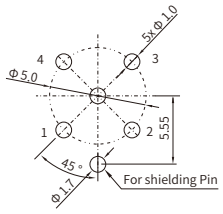
| | |
|---|---|
| Color: | Black |
| nut/screw: | PA+GF |

| | |
|---|---|
| Loop: | TPU |
| IP rating: | IP68 in locked condition |

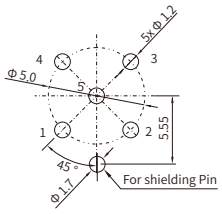
# M12 PCB Layout & Panel cut-out

## PCB Layout

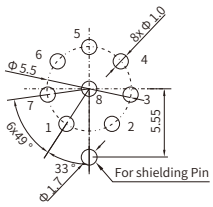
### M12 Male Connector



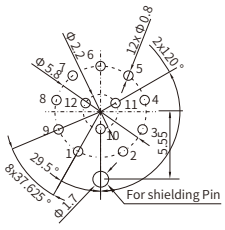

(Pin OD: Φ 0.8)
3P/4P/5P



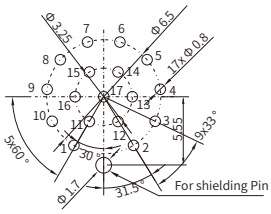

(Pin OD: Φ 1.0)
3P/4P/5P




(Pin OD: Φ 0.8)
8P



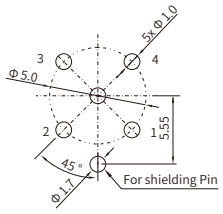

(Pin OD: Φ 0.6)
12P



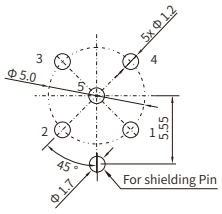

(Pin OD: Φ 0.6)
17P

Recommended PCB layout

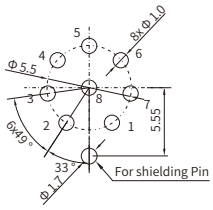
### M12 Female Connector



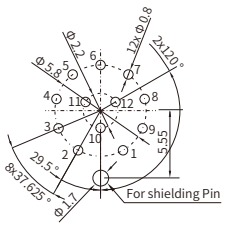

(Pin OD: Φ 0.8)
3P/4P/5P



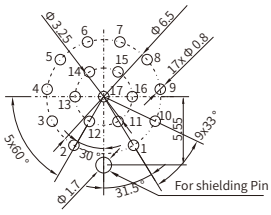

(Pin OD: Φ 1.0)
3P/4P/5P




(Pin OD: Φ 0.8)
8P




(Pin OD: Φ 0.6)
12P

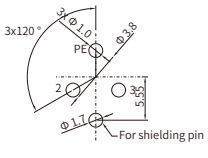



(Pin OD: Φ 0.6)
17P

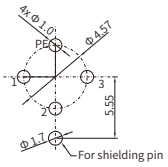
Recommended PCB layout

### M12 C-coding Connector

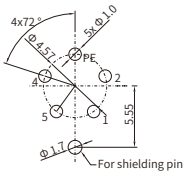
Male Connector



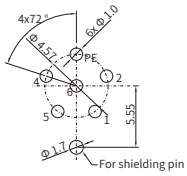

3Pin




4Pin

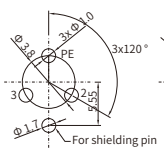



5Pin

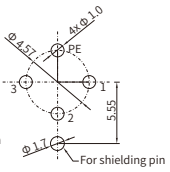



6Pin

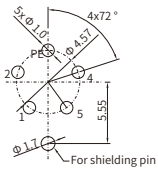
Female Connector



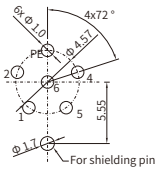

3Pin




4Pin

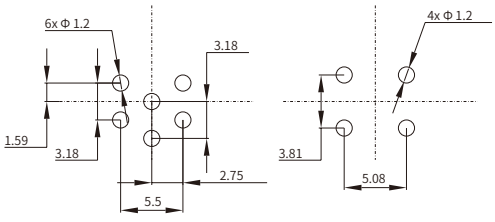



5Pin




6Pin

### M12 Quick-lock Connector

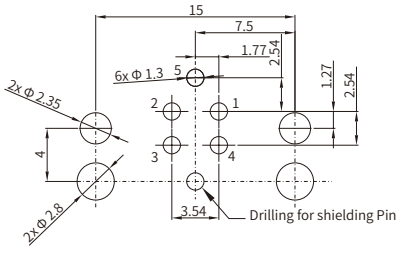


# M12 PCB Layout & Panel cut-out

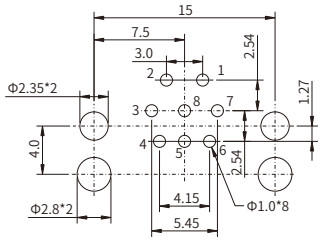
## ■ PCB Layout

M12 Right Angled Connector

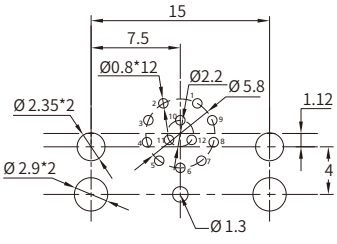
Recommended PCB layout



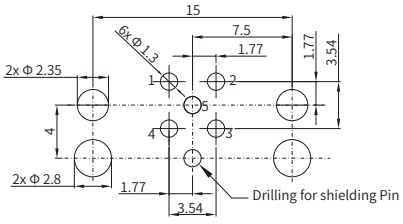

3P/4P/5P(Male)



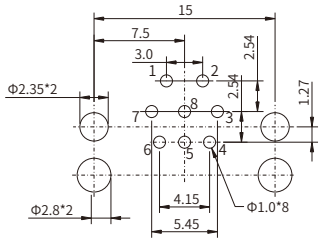

8P (Male)



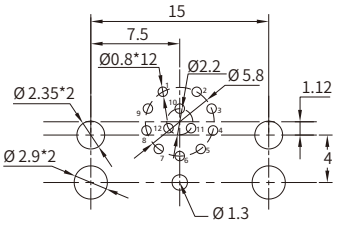

12P (Male)




3P/4P/5P(Female)

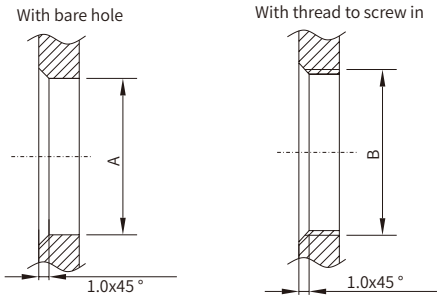



8P (Female)



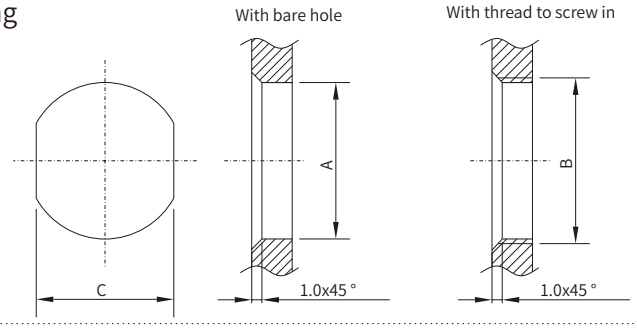

12P (Female)

## ■ Panel cut-out



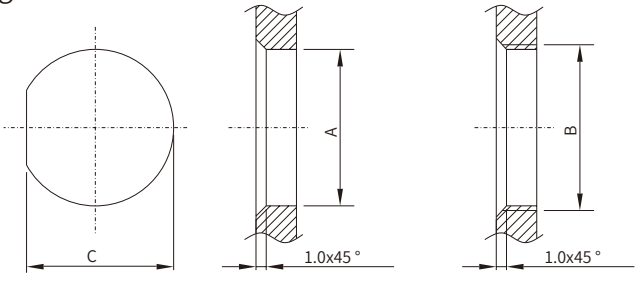

| | A | B |
|---|---|---|
| M12 | 12 $^{+0.1}_{-0}$ | M12x1.0 |
| M16 | 16 $^{+0.1}_{-0}$ | M16x1.5 |
| PG9 | 15.3 $^{+0.1}_{-0}$ | PG9 |

### H-cutting




| | A | B | C |
|---|---|---|---|
| M16 | 16 $^{+0.1}_{-0}$ | M16x1.5 | 13.5 $^{+0.1}_{-0}$ / 14.1 $^{+0.1}_{-0}$ |
| PG9 | 15.3 $^{+0.1}_{-0}$ | PG9 | 13.5 $^{+0.1}_{-0}$ / 14.1 $^{+0.1}_{-0}$ |

### D-cutting




| | A | B | C |
|---|---|---|---|
| M16 | 16 $^{+0.1}_{-0}$ | M16x1.5 | 14.3 $^{+0.1}_{-0}$ |
| PG9 | 15.3 $^{+0.1}_{-0}$ | PG9 | 14.3 $^{+0.1}_{-0}$ |
| 5/8"-27UNS | 15.7 $^{+0.1}_{-0}$ | 5/8"-27UNS | 14.6 $^{+0.1}_{-0}$ |
| M12 | 12 $^{+0.1}_{-0}$ | M12x1.0 | 11.3 $^{+0.1}_{-0}$ |

# Industrial Circular
## connectors

## M16 cables & connectors

The M16 Series is an ideal choice for intensive industrial and commercial applications. Over-molded cable, assembly type and panel-mount receptacles are available in various styles and mounting methods. Quick-locking wiring assembly type is also available.

- Degree of protection IP65/IP67
- 2~9, 14, 19 poles are available
- TPU over molded or TPU plastic body
- Cable length customized, PUR and PVC cable options
- Anti-vibration locking screw design

# M16 Quick Search Table

## M16 cables & connectors

**M16**
**Quick Search Table**

| | | Locking type | Fix screw | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Rated Current | 7A(40°C) | | | | 6A(40°C) | | 6A(40°C) | | 6A(40°C) | | 5A(40°C) |
| | | Voltage | 250V(100V) AC/DC | | | | 250V(100V) AC/DC | | 250V(63V) AC/DC | | 60(32V) AC/DC | | 250V(63V) AC/DC |
| | | Wire Gauge / size | 18AWG/0.75mm² | | | | 18AWG/0.75mm² | | 18AWG/0.75mm² | | 18AWG/0.75mm² | | 18AWG/0.75mm² |
| | | Pin layout | Male | Female | Male | Female | Male | Female | Male | Female | Male | Female | Male |
| Fix Screw | **Molded Cable** | | 02 Pins | | 03 Pins | | 04 Pins | | 05 Pins-a | | 05 Pins-b | | 06 Pins |
| | | Straight Connector, Molded Cable | 421 | 421 | 421 | 421 | 421 | 421 | 421 | 421 | 421 | 421 | 421 |
| | | Straight Connector, Molded Cable, Shielded | 422 | 422 | 422 | 422 | 422 | 422 | 422 | 422 | 422 | 422 | 422 |
| | | Angled Connector, Molded Cable | 423 | 423 | 423 | 423 | 423 | 423 | 423 | 423 | 423 | 423 | 423 |
| | | Angled Connector, Molded Cable, Shielded | 424 | 424 | 424 | 424 | 424 | 424 | 424 | 424 | 424 | 424 | 424 |
| | **Assembly Type** | | 02 Pins | | 03 Pins | | 04 Pins | | 05 Pins-a | | 05 Pins-b | | 06 Pins |
| | | Straight Connector, Field Wirable Assembly, Solder | 425 | 425 | 425 | 425 | 425 | 425 | 425 | 425 | 425 | 425 | 425 |
| | **Panel Mount Type** | | 02 Pins | | 03 Pins | | 04 Pins | | 05 Pins-a | | 05 Pins-b | | 06 Pins |
| | | Straight Connector, Panel Mount, Die-cast Screw, Solder, Front fastened | 426 | 426 | 426 | 426 | 426 | 426 | 426 | 426 | 426 | 426 | 426 |
| | | Straight Connector, Panel Mount, Die-cast Screw, Solder, Rear fastened | 427 | 427 | 427 | 427 | 427 | 427 | 427 | 427 | 427 | 427 | 427 |
| Quick-lock | **Molded Cable** | | 02 Pins | | 03 Pins | | 04 Pins | | 05 Pins-a | | 05 Pins-b | | 06 Pins |
| | | Straight Connector, Molded Cable, Quick-lock Type | - | - | - | - | - | - | - | - | - | - | - |
| | | Straight Connector, Molded Cable, Quick-lock Type, With Fix-cap | - | - | - | - | - | - | - | - | - | - | - |
| | **Assembly Type** | | 02 Pins | | 03 Pins | | 04 Pins | | 05 Pins-a | | 05 Pins-b | | 06 Pins |
| | | Straight Connector, Field Wirable Assembly, Quick-lock Type, Solder | - | - | - | - | - | - | - | - | - | - | - |
| | | Straight Connector, Field Assembly, Quick-lock Type, Solder, With Fix-cap | - | - | - | - | - | - | - | - | - | - | - |
| | **Panel Mount Type** | | 02 Pins | | 03 Pins | | 04 Pins | | 05 Pins-a | | 05 Pins-b | | 06 Pins |
| | | Straight Connector, Panel Mount, Quick-lock Type, Solder, Front fastened | - | - | - | - | - | - | - | - | - | - | - |
| | | Straight Connector, Panel Mount, Quick-lock Type, PCB Type, Front fastened | - | - | - | - | - | - | - | - | - | - | - |
| Cap | **Protection Cap** | | | | | | | | | | | | |
| | | Protection Cap for Male With Fix-Cap Cable Connector | 434 | | | | | | | | | | |
| | | Protection Cap for female Molded cable connector without fix cap | 434 | | | | | | | | | | |
| | | Protection Cap for Male/ Female Panel-mount Connector | 435 | | | | | | | | | | |
| | | Protection Cap for Male Connector | 435 | | | | | | | | | | |
| | | Protection Cap for Female Connector | 436 | | | | | | | | | | |
| | | Protection Cap for Male Panel-mount Connector | 436 | | | | | | | | | | |
| | | Protection Cap for Female Panel-mount Connector | 437 | | | | | | | | | | |
| | | Connector Accessories | 437 | | | | | | | | | | |

# M16 Quick Search Table

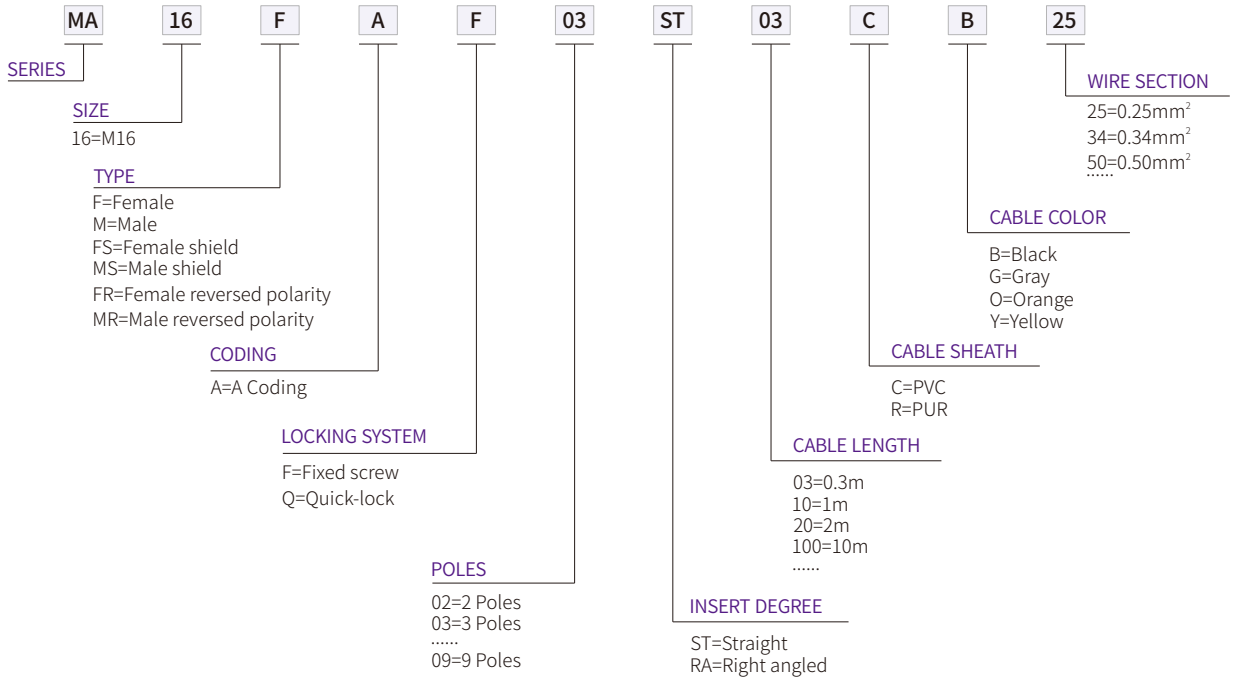
## M16 cables & connectors

| Fix screw | | | | | | | | | | | | | Quick-lock | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5A(40°C) | | | 5A(40°C) | | | | 3A(40°C) | | | | | | 4A | | | |
| 125V(63V) AC/DC | | | 60V(32V)AC/DC | | | | 60V(32V) AC/DC | | | | | | 250V(A/C), 300V(D/C) | | | |
| 18AWG/0.75mm² | | | 18AWG/0.75mm² | | | | 24AWG/0.25mm² | | | | | | 22AWG / 0.34mm² | | | |
| Female | Male | Female | Male | Female | Male | Female | Male | Female | Male | Female | Male | Female | Male | Female | Male | Female |
| 06 Pins | 07 Pins-a | | 07 Pins-b | | 08 Pins | | 12 Pins | | 14 Pins | | 19 Pins | | 08 Pins | | 09 Pins | |
| 421 | 421 | 421 | 421 | 421 | 421 | 421 | 421 | 421 | 421 | 421 | 421 | 421 | - | - | - | - |
| 422 | 422 | 422 | 422 | 422 | 422 | 422 | 422 | 422 | 422 | 422 | 422 | 422 | - | - | - | - |
| 423 | 423 | 423 | 423 | 423 | 423 | 423 | 423 | 423 | 423 | 423 | 423 | 423 | - | - | - | - |
| 424 | 424 | 424 | 424 | 424 | 424 | 424 | 424 | 424 | 424 | 424 | 424 | 424 | - | - | - | - |
| 06 Pins | 07 Pins-a | | 07 Pins-b | | 08 Pins | | 12 Pins | | 14 Pins | | 19 Pins | | 08 Pins | | 09 Pins | |
| 425 | 425 | 425 | 425 | 425 | 425 | 425 | 425 | 425 | 425 | 425 | 425 | 425 | - | - | - | - |
| 06 Pins | 07 Pins-a | | 07 Pins-b | | 08 Pins | | 12 Pins | | 14 Pins | | 19 Pins | | 08 Pins | | 09 Pins | |
| 426 | 426 | 426 | 426 | 426 | 426 | 426 | 426 | 426 | 426 | 426 | 426 | 426 | - | - | - | - |
| 427 | 427 | 427 | 427 | 427 | 427 | 427 | 427 | 427 | 427 | 427 | 427 | 427 | - | - | - | - |
| 06 Pins | 07 Pins-a | | 07 Pins-b | | 08 Pins | | 12 Pins | | 14 Pins | | 19 Pins | | 08 Pins | | 09 Pins | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | 428 | 428 | 428 | 428 |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | 429 | - | 429 |
| 06 Pins | 07 Pins-a | | 07 Pins-b | | 08 Pins | | 12 Pins | | 14 Pins | | 19 Pins | | 08 Pins | | 09 Pins | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | 430 | 430 | 430 | 430 |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | 431 | - | 431 |
| 06 Pins | 07 Pins-a | | 07 Pins-b | | 08 Pins | | 12 Pins | | 14 Pins | | 19 Pins | | 08 Pins | | 09 Pins | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | 432 | 432 | 432 | 432 |
| - | - | - | - | - | - | - | - | - | - | - | - | - | 433 | 433 | 433 | 433 |

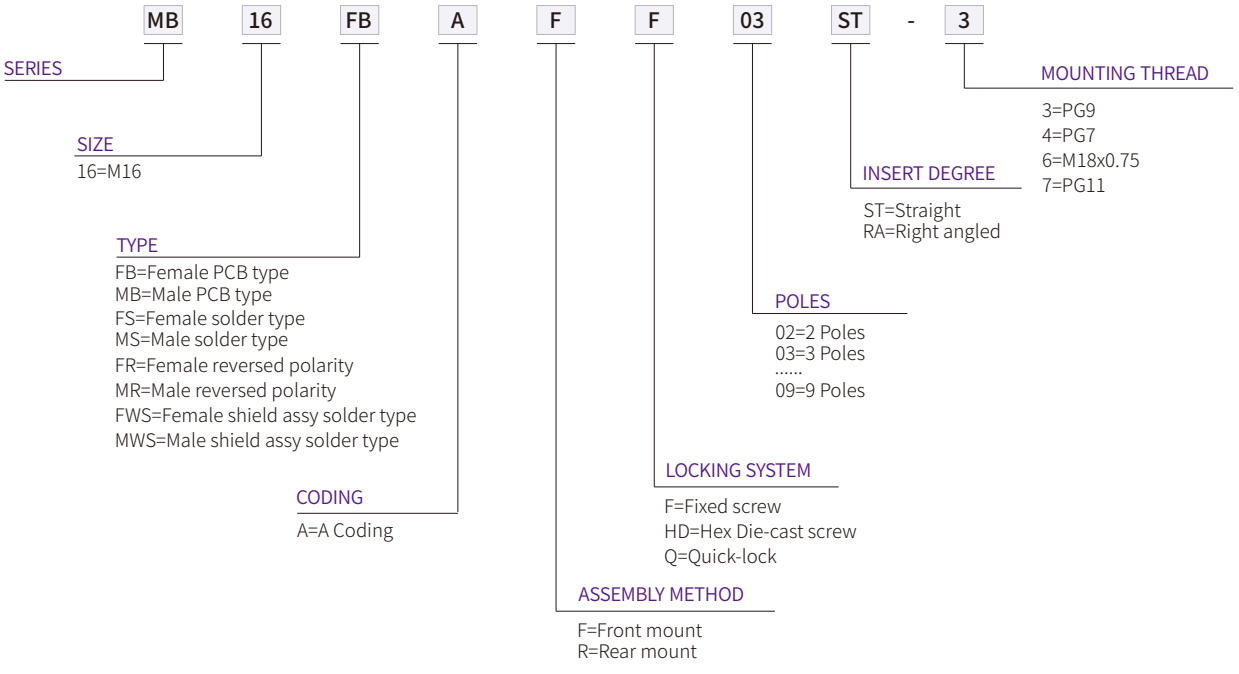
# M16

## How to Order Part Number

### ■ M16 Series with cable molded



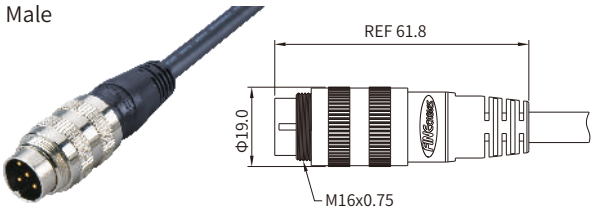

### ■ M16 Series Assembly / Panel-mount type



# M16

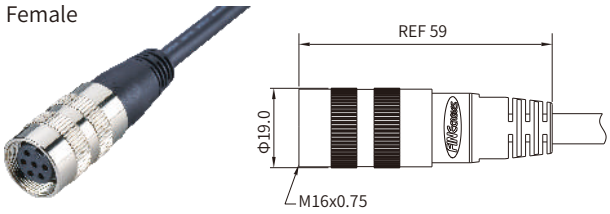
## M16 Straight Connector, Molded Cable

Male



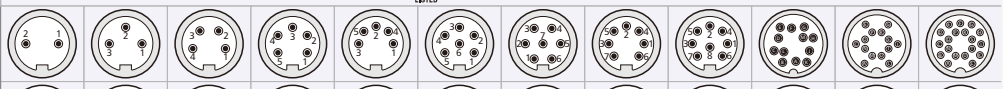
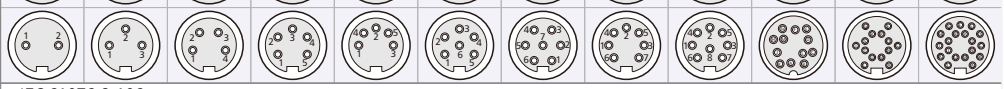

RoHS

Female




RoHS

## Specifications

| Contacts | 2 | 3 | 4 | 5-a | 5-b | 6 | 7-a | 7-b | 8 | 12 | 14-b | 19 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Certification | CYJV/7.E321413 | | | | | | | | | | | |
| Pin layout(Male) |  | | | | | | | | | | | |
| Pin layout(Female) |  | | | | | | | | | | | |
| Standard | IEC 61076-2-106 | | | | | | | | | | | |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | | | | | | | | | | | |
| Connector insert | PBT | | | | | | | | | | | |
| Connector contacts | Brass with gold plated | | | | | | | | | | | |
| Connector overmold | TPU | | | | | | | | | | | |
| Coupling nut/screw | Zinc alloy with nickel plated | | | | | | | | | | | |
| O-ring(of Female) | NBR/FKM | | | | | | | | | | | |
| Insulation resistance | ⩾100MΩ | | | | | | | | | | | |
| Contact resistance | ⩽5mΩ | | | | | | | | | | | |
| Shielding | Unavailable | | | | | | | | | | | |
| IP rating | IP65, IP67 in locked condition | | | | | | | | | | | |
| Mating endurance | >100 cycles | | | | | | | | | | | |
| Rated current | 7A(40°C) | | 6A(40°C) | | | 5A(40°C) | | | | 3A(40°C) | | |
| Rated voltage | 250V(100V) AC/DC | | | 250V(63V) | 60V(32V) | 250V(63V) | 125V(63V) | | | 60V(32V) | | |
| Wire gauge | 0.75~0.25mm²(AWG18~20) | | | | | | | | | 0.34~0.25mm²(AWG22~24) | | |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 2 | 1m | MA16MAF02ST-10CB75 | MA16MAF02ST-10RB75 | MA16FAF02ST-10CB75 | MA16FAF02ST-10RB75 |
| 3 | 1m | MA16MAF03ST-10CB75 | MA16MAF03ST-10RB75 | MA16FAF03ST-10CB75 | MA16FAF03ST-10RB75 |
| 4 | 1m | MA16MAF04ST-10CB75 | MA16MAF04ST-10RB75 | MA16FAF04ST-10CB75 | MA16FAF04ST-10RB75 |
| 5-a | 1m | MA16MAF05AST-10CB75 | MA16MAF05AST-10RB75 | MA16FAF05AST-10CB75 | MA16FAF05AST-10RB75 |
| 5-b | 1m | MA16MAF05BST-10CB75 | MA16MAF05BST-10RB75 | MA16FAF05BST-10CB75 | MA16FAF05BST-10RB75 |
| 6 | 1m | MA16MAF06ST-10CB75 | MA16MAF06ST-10RB75 | MA16FAF06ST-10CB75 | MA16FAF06ST-10RB75 |
| 7-a | 1m | MA16MAF07AST-10CB75 | MA16MAF07AST-10RB75 | MA16FAF07AST-10CB75 | MA16FAF07AST-10RB75 |
| 7-b | 1m | MA16MAF07BST-10CB75 | MA16MAF07BST-10RB75 | MA16FAF07BST-10CB75 | MA16FAF07BST-10RB75 |
| 8 | 1m | MA16MAF08ST-10CB75 | MA16MAF08ST-10RB75 | MA16FAF08ST-10CB75 | MA16FAF08ST-10RB75 |
| 12 | 1m | MA16MAF12ST-10CB25 | MA16MAF12ST-10RB25 | MA16FAF12ST-10CB25 | MA16FAF12ST-10RB25 |
| 14-b | 1m | MA16MAF14BST-10CB25 | MA16MAF14BST-10RB25 | MA16FAF14BST-10CB25 | MA16FAF14BST-10RB25 |
| 19 | 1m | MA16MAF19ST-10CB25 | MA16MAF19ST-10RB25 | MA16FAF19ST-10CB25 | MA16FAF19ST-10RB25 |

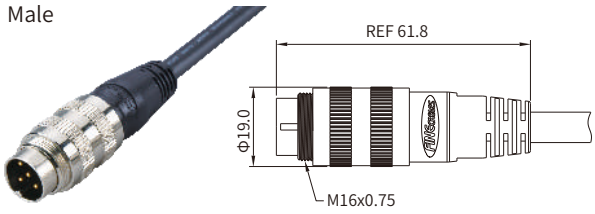
## Default wire colors

| Pin No. | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pin 1 | RD | BN | BN | BN | BN | WH | WH | WH | WH | WH | WH | WH |
| Pin 2 | BK | BU | WH | WH | WH | BN | BN | BN | BN | BN | BK | BK |
| Pin 3 | | BK | BU | BU | BU | GN | GN | GN | GN | GN | GN | GN |
| Pin 4 | | | BK | BK | BK | YE | YE | YE | YE | YE | RD | RD |
| Pin 5 | | | | GY | GY | GY | GY | GY | GY | GY | OR | OR |
| Pin 6 | | | | | | PK | PK | PK | PK | PK | BU | BU |
| Pin 7 | | | | | | | BU | BU | BU | BU | BN | BN |
| Pin 8 | | | | | | | | | RD | RD | YE | YE |
| Pin 9 | | | | | | | | | | OR | VT | VT |
| Pin 10 | | | | | | | | | | TP | GY | GY |
| Pin 11 | | | | | | | | | | BK | PK | PK |
| Pin 12 | | | | | | | | | | VT | BK/WH | BK/WH |
| Pin 13 | | | | | | | | | | | BK/RD | BK/RD |
| Pin 14 | | | | | | | | | | | BK/GN | BK/GN |
| Pin 15 | | | | | | | | | | | | BK/YE |
| Pin 16 | | | | | | | | | | | | BK/BN |
| Pin 17 | | | | | | | | | | | | BK/BU |
| Pin 18 | | | | | | | | | | | | OR/WH |
| Pin 19 | | | | | | | | | | | | GN/WH |

# M16

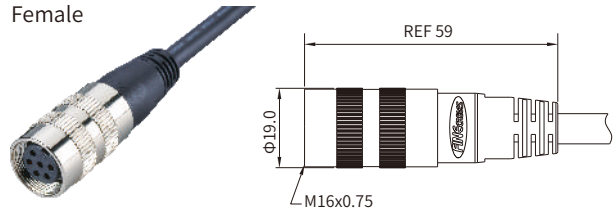
## M16 Straight Connector, Molded Cable, Shielded

Male



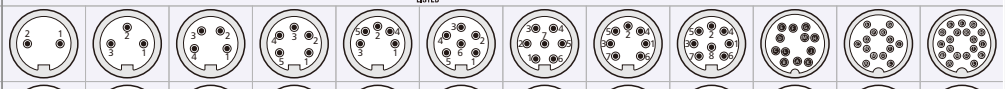
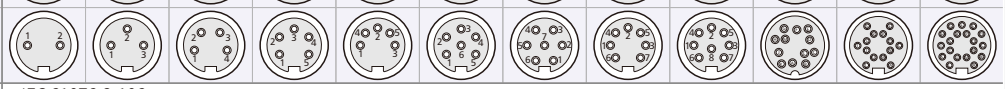

RoHS

Female




RoHS

## Specifications

| Contacts | 2 | 3 | 4 | 5-a | 5-b | 6 | 7-a | 7-b | 8 | 12 | 14-b | 19 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Certification | cULus LISTED CYJV/7.E321413 | | | | | | | | | | | |
| Pin layout(Male) |  | | | | | | | | | | | |
| Pin layout(Female) |  | | | | | | | | | | | |
| Standard | IEC 61076-2-106 | | | | | | | | | | | |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | | | | | | | | | | | |
| Connector insert | PBT | | | | | | | | | | | |
| Connector contacts | Brass with gold plated | | | | | | | | | | | |
| Connector overmold | TPU | | | | | | | | | | | |
| Coupling nut/screw | Zinc alloy with nickel plated | | | | | | | | | | | |
| O-ring(of Female) | NBR/FKM | | | | | | | | | | | |
| Insulation resistance | ⩾100MΩ | | | | | | | | | | | |
| Contact resistance | ⩽5mΩ | | | | | | | | | | | |
| Shielding | Available | | | | | | | | | | | |
| IP rating | IP65, IP67 in locked condition | | | | | | | | | | | |
| Mating endurance | >100 cycles | | | | | | | | | | | |
| Rated current | 7A(40°C) | | 6A(40°C) | | | 5A(40°C) | | | | 3A(40°C) | | |
| Rated voltage | 250V(100V) AC/DC | | 250V(63V) | 60V(32V) | | 250V(63V) | 125V(63V) | | | 60V(32V) | | |
| Wire gauge | 0.75~0.25mm²(AWG18~20) | | | | | | | | | 0.34~0.25mm²(AWG22~24) | | |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 2 | 1m | MA16MSAF02ST-10CB75 | MA16MSAF02ST-10RB75 | MA16FSAF02ST-10CB75 | MA16FSAF02ST-10RB75 |
| 3 | 1m | MA16MSAF03ST-10CB75 | MA16MSAF03ST-10RB75 | MA16FSAF03ST-10CB75 | MA16FSAF03ST-10RB75 |
| 4 | 1m | MA16MSAF04ST-10CB75 | MA16MSAF04ST-10RB75 | MA16FSAF04ST-10CB75 | MA16FSAF04ST-10RB75 |
| 5-a | 1m | MA16MSAF05AST-10CB75 | MA16MSAF05AST-10RB75 | MA16FSAF05AST-10CB75 | MA16FSAF05AST-10RB75 |
| 5-b | 1m | MA16MSAF05BST-10CB75 | MA16MSAF05BST-10RB75 | MA16FSAF05BST-10CB75 | MA16FSAF05BST-10RB75 |
| 6 | 1m | MA16MSAF06ST-10CB75 | MA16MSAF06ST-10RB75 | MA16FSAF06ST-10CB75 | MA16FSAF06ST-10RB75 |
| 7-a | 1m | MA16MSAF07AST-10CB75 | MA16MSAF07AST-10RB75 | MA16FSAF07AST-10CB75 | MA16FSAF07AST-10RB75 |
| 7-b | 1m | MA16MSAF07BST-10CB75 | MA16MSAF07BST-10RB75 | MA16FSAF07BST-10CB75 | MA16FSAF07BST-10RB75 |
| 8 | 1m | MA16MSAF08ST-10CB75 | MA16MSAF08ST-10RB75 | MA16FSAF08ST-10CB75 | MA16FSAF08ST-10RB75 |
| 12 | 1m | MA16MSAF12ST-10CB25 | MA16MSAF12ST-10RB25 | MA16FSAF12ST-10CB25 | MA16FSAF12ST-10RB25 |
| 14-b | 1m | MA16MSAF14BST-10CB25 | MA16MSAF14BST-10RB25 | MA16FSAF14BST-10CB25 | MA16FSAF14BST-10RB25 |
| 19 | 1m | MA16MSAF19ST-10CB25 | MA16MSAF19ST-10RB25 | MA16FSAF19ST-10CB25 | MA16FSAF19ST-10RB25 |

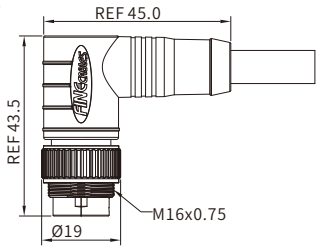
## Default wire colors

| Pin No. | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pin 1 | RD | BN | BN | BN | BN | WH | WH | WH | WH | WH | WH | WH |
| Pin 2 | BK | BU | WH | WH | WH | BN | BN | BN | BN | BN | BK | BK |
| Pin 3 | | BK | BU | BU | BU | GN | GN | GN | GN | GN | GN | GN |
| Pin 4 | | | BK | BK | BK | YE | YE | YE | YE | YE | RD | RD |
| Pin 5 | | | | GY | GY | GY | GY | GY | GY | GY | OR | OR |
| Pin 6 | | | | | | PK | PK | PK | PK | PK | BU | BU |
| Pin 7 | | | | | | | BU | BU | BU | BU | BN | BN |
| Pin 8 | | | | | | | | | RD | RD | YE | YE |
| Pin 9 | | | | | | | | | | OR | VT | VT |
| Pin 10 | | | | | | | | | | TP | GY | GY |
| Pin 11 | | | | | | | | | | BK | PK | PK |
| Pin 12 | | | | | | | | | | VT | BK/WH | BK/WH |
| Pin 13 | | | | | | | | | | | BK/RD | BK/RD |
| Pin 14 | | | | | | | | | | | BK/GN | BK/GN |
| Pin 15 | | | | | | | | | | | | BK/YE |
| Pin 16 | | | | | | | | | | | | BK/BN |
| Pin 17 | | | | | | | | | | | | BK/BU |
| Pin 18 | | | | | | | | | | | | OR/WH |
| Pin 19 | | | | | | | | | | | | GN/WH |
| Shell | Braid | | | | | | | | | | | |

# M16

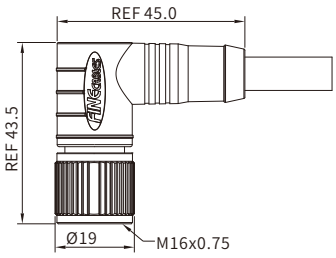
## M16 Angled Connector, Molded Cable

Male



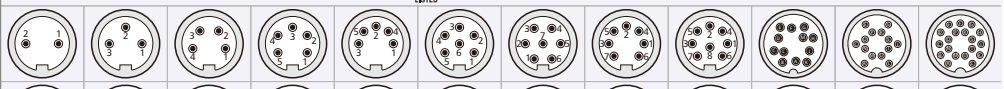
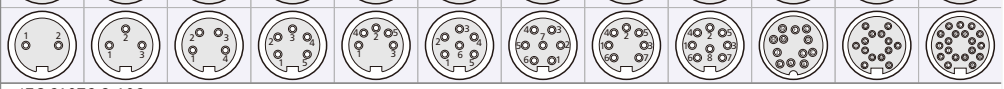

RoHS

Female




RoHS

## Specifications

| Contacts | 2 | 3 | 4 | 5-a | 5-b | 6 | 7-a | 7-b | 8 | 12 | 14-b | 19 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Certification | cULus LISTED CYJV/7.E321413 | | | | | | | | | | | |
| Pin layout(Male) |  | | | | | | | | | | | |
| Pin layout(Female) |  | | | | | | | | | | | |
| Standard | IEC 61076-2-106 | | | | | | | | | | | |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | | | | | | | | | | | |
| Connector insert | PBT | | | | | | | | | | | |
| Connector contacts | Brass with gold plated | | | | | | | | | | | |
| Connector overmold | TPU | | | | | | | | | | | |
| Coupling nut/screw | Zinc alloy with nickel plated | | | | | | | | | | | |
| O-ring(of Female) | NBR/FKM | | | | | | | | | | | |
| Insulation resistance | ⩾100MΩ | | | | | | | | | | | |
| Contact resistance | ⩽5mΩ | | | | | | | | | | | |
| Shielding | Unavailable | | | | | | | | | | | |
| IP rating | IP65, IP67 in locked condition | | | | | | | | | | | |
| Mating endurance | >100 cycles | | | | | | | | | | | |
| Rated current | 7A(40°C) | | 6A(40°C) | | | 5A(40°C) | | | | 3A(40°C) | | |
| Rated voltage | 250V(100V) AC/DC | | | 250V(63V) | 60V(32V) | 250V(63V) | 125V(63V) | | | 60V(32V) | | |
| Wire gauge | 0.75~0.25mm² (AWG18~20) | | | | | | | | | 0.34~0.25mm² (AWG22~24) | | |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 2 | 1m | MA16MAF02RA-10CB75 | MA16MAF02RA-10RB75 | MA16FAF02RA-10CB75 | MA16FAF02RA-10RB75 |
| 3 | 1m | MA16MAF03RA-10CB75 | MA16MAF03RA-10RB75 | MA16FAF03RA-10CB75 | MA16FAF03RA-10RB75 |
| 4 | 1m | MA16MAF04RA-10CB75 | MA16MAF04RA-10RB75 | MA16FAF04RA-10CB75 | MA16FAF04RA-10RB75 |
| 5-a | 1m | MA16MAF05ARA-10CB75 | MA16MAF05ARA-10RB75 | MA16FAF05ARA-10CB75 | MA16FAF05ARA-10RB75 |
| 5-b | 1m | MA16MAF05BRA-10CB75 | MA16MAF05BRA-10RB75 | MA16FAF05BRA-10CB75 | MA16FAF05BRA-10RB75 |
| 6 | 1m | MA16MAF06RA-10CB75 | MA16MAF06RA-10RB75 | MA16FAF06RA-10CB75 | MA16FAF06RA-10RB75 |
| 7-a | 1m | MA16MAF07ARA-10CB75 | MA16MAF07ARA-10RB75 | MA16FAF07ARA-10CB75 | MA16FAF07ARA-10RB75 |
| 7-b | 1m | MA16MAF07BRA-10CB75 | MA16MAF07BRA-10RB75 | MA16FAF07BRA-10CB75 | MA16FAF07BRA-10RB75 |
| 8 | 1m | MA16MAF08RA-10CB75 | MA16MAF08RA-10RB75 | MA16FAF08RA-10CB75 | MA16FAF08RA-10RB75 |
| 12 | 1m | MA16MAF12RA-10CB25 | MA16MAF12RA-10RB25 | MA16FAF12RA-10CB25 | MA16FAF12RA-10RB25 |
| 14-b | 1m | MA16MAF14BRA-10CB25 | MA16MAF14BRA-10RB25 | MA16FAF14BRA-10CB25 | MA16FAF14BRA-10RB25 |
| 19 | 1m | MA16MAF19RA-10CB25 | MA16MAF19RA-10RB25 | MA16FAF19RA-10CB25 | MA16FAF19RA-10RB25 |

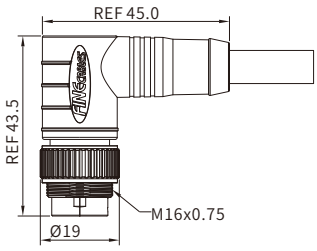
## Default wire colors

| Pin No. | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pin 1 | RD | BN | BN | BN | BN | WH | WH | WH | WH | WH | WH | WH |
| Pin 2 | BK | BU | WH | WH | WH | BN | BN | BN | BN | BN | BK | BK |
| Pin 3 | | BK | BU | BU | BU | GN | GN | GN | GN | GN | GN | GN |
| Pin 4 | | | BK | BK | BK | YE | YE | YE | YE | YE | RD | RD |
| Pin 5 | | | | GY | GY | GY | GY | GY | GY | GY | OR | OR |
| Pin 6 | | | | | | PK | PK | PK | PK | PK | BU | BU |
| Pin 7 | | | | | | | BU | BU | BU | BU | BN | BN |
| Pin 8 | | | | | | | | | RD | RD | YE | YE |
| Pin 9 | | | | | | | | | | OR | VT | VT |
| Pin 10 | | | | | | | | | | TP | GY | GY |
| Pin 11 | | | | | | | | | | BK | PK | PK |
| Pin 12 | | | | | | | | | | VT | BK/WH | BK/WH |
| Pin 13 | | | | | | | | | | | BK/RD | BK/RD |
| Pin 14 | | | | | | | | | | | BK/GN | BK/GN |
| Pin 15 | | | | | | | | | | | | BK/YE |
| Pin 16 | | | | | | | | | | | | BK/BN |
| Pin 17 | | | | | | | | | | | | BK/BU |
| Pin 18 | | | | | | | | | | | | OR/WH |
| Pin 19 | | | | | | | | | | | | GN/WH |

# M16

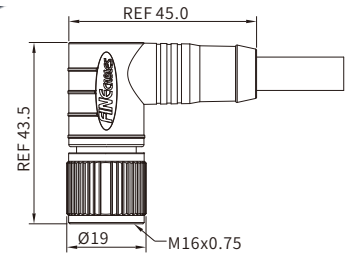
## M16 Angled Connector, Molded Cable, Shielded

Male



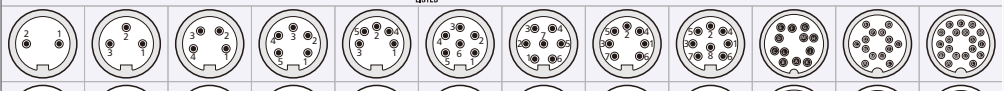
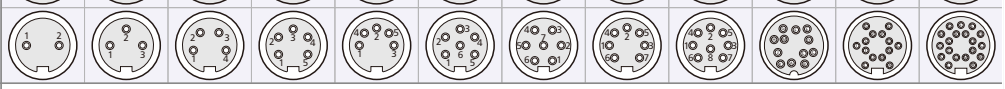

RoHS

Female




RoHS

## Specifications

| Contacts | 2 | 3 | 4 | 5-a | 5-b | 6 | 7-a | 7-b | 8 | 12 | 14-b | 19 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Certification | cULus LISTED CYJV/7.E321413 | | | | | | | | | | | |
| Pin layout(Male) |  | | | | | | | | | | | |
| Pin layout(Female) |  | | | | | | | | | | | |
| Standard | IEC 61076-2-106 | | | | | | | | | | | |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | | | | | | | | | | | |
| Connector insert | PBT | | | | | | | | | | | |
| Connector contacts | Brass with gold plated | | | | | | | | | | | |
| Connector overmold | TPU | | | | | | | | | | | |
| Coupling nut/screw | Zinc alloy with nickel plated | | | | | | | | | | | |
| O-ring(of Female) | NBR/FKM | | | | | | | | | | | |
| Insulation resistance | ⩾100MΩ | | | | | | | | | | | |
| Contact resistance | ⩽5mΩ | | | | | | | | | | | |
| Shielding | Available | | | | | | | | | | | |
| IP rating | IP65, IP67 in locked condition | | | | | | | | | | | |
| Mating endurance | >100 cycles | | | | | | | | | | | |
| Rated current | 7A(40°C) | | 6A(40°C) | | | 5A(40°C) | | | | 3A(40°C) | | |
| Rated voltage | 250V(100V) AC/DC | | 250V(63V) | 60V(32V) | | 250V(63V) | 125V(63V) | | | 60V(32V) | | |
| Wire gauge | 0.75~0.25mm²(AWG18~20) | | | | | | | | | 0.34~0.25mm²(AWG22~24) | | |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 2 | 1m | MA16MSAF02RA-10CB75 | MA16MSAF02RA-10RB75 | MA16FSAF02RA-10CB75 | MA16FSAF02RA-10RB75 |
| 3 | 1m | MA16MSAF03RA-10CB75 | MA16MSAF03RA-10RB75 | MA16FSAF03RA-10CB75 | MA16FSAF03RA-10RB75 |
| 4 | 1m | MA16MSAF04RA-10CB75 | MA16MSAF04RA-10RB75 | MA16FSAF04RA-10CB75 | MA16FSAF04RA-10RB75 |
| 5-a | 1m | MA16MSAF05ARA-10CB75 | MA16MSAF05ARA-10RB75 | MA16FSAF05ARA-10CB75 | MA16FSAF05ARA-10RB75 |
| 5-b | 1m | MA16MSAF05BRA-10CB75 | MA16MSAF05BRA-10RB75 | MA16FSAF05BRA-10CB75 | MA16FSAF05BRA-10RB75 |
| 6 | 1m | MA16MSAF06RA-10CB75 | MA16MSAF06RA-10RB75 | MA16FSAF06RA-10CB75 | MA16FSAF06RA-10RB75 |
| 7-a | 1m | MA16MSAF07ARA-10CB75 | MA16MSAF07ARA-10RB75 | MA16FSAF07ARA-10CB75 | MA16FSAF07ARA-10RB75 |
| 7-b | 1m | MA16MSAF07BRA-10CB75 | MA16MSAF07BRA-10RB75 | MA16FSAF07BRA-10CB75 | MA16FSAF07BRA-10RB75 |
| 8 | 1m | MA16MSAF08RA-10CB75 | MA16MSAF08RA-10RB75 | MA16FSAF08RA-10CB75 | MA16FSAF08RA-10RB75 |
| 12 | 1m | MA16MSAF12RA-10CB25 | MA16MSAF12RA-10RB25 | MA16FSAF12RA-10CB25 | MA16FSAF12RA-10RB25 |
| 14-b | 1m | MA16MSAF14BRA-10CB25 | MA16MSAF14BRA-10RB25 | MA16FSAF14BRA-10CB25 | MA16FSAF14BRA-10RB25 |
| 19 | 1m | MA16MSAF19RA-10CB25 | MA16MSAF19RA-10RB25 | MA16FSAF19RA-10CB25 | MA16FSAF19RA-10RB25 |

## Default wire colors

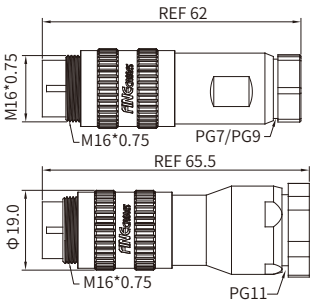
| Pin No. | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pin 1 | RD | BN | BN | BN | BN | WH | WH | WH | WH | WH | WH | WH |
| Pin 2 | BK | BU | WH | WH | WH | BN | BN | BN | BN | BN | BK | BK |
| Pin 3 | | BK | BU | BU | BU | GN | GN | GN | GN | GN | GN | GN |
| Pin 4 | | | BK | BK | BK | YE | YE | YE | YE | YE | RD | RD |
| Pin 5 | | | | GY | GY | GY | GY | GY | GY | GY | OR | OR |
| Pin 6 | | | | | | PK | PK | PK | PK | PK | BU | BU |
| Pin 7 | | | | | | | BU | BU | BU | BU | BN | BN |
| Pin 8 | | | | | | | | | RD | RD | YE | YE |
| Pin 9 | | | | | | | | | | OR | VT | VT |
| Pin 10 | | | | | | | | | | TP | GY | GY |
| Pin 11 | | | | | | | | | | BK | PK | PK |
| Pin 12 | | | | | | | | | | VT | BK/WH | BK/WH |
| Pin 13 | | | | | | | | | | | BK/RD | BK/RD |
| Pin 14 | | | | | | | | | | | BK/GN | BK/GN |
| Pin 15 | | | | | | | | | | | | BK/YE |
| Pin 16 | | | | | | | | | | | | BK/BN |
| Pin 17 | | | | | | | | | | | | BK/BU |
| Pin 18 | | | | | | | | | | | | OR/WH |
| Pin 19 | | | | | | | | | | | | GN/WH |
| Shell | Braid | | | | | | | | | | | |

# M16

## M16 Straight Connector, Field Wirable Assembly, Solder

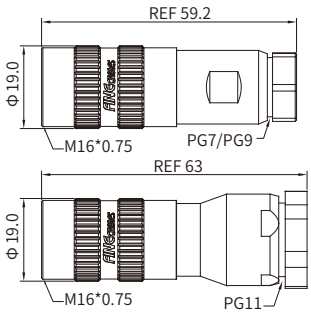
Male

RoHS

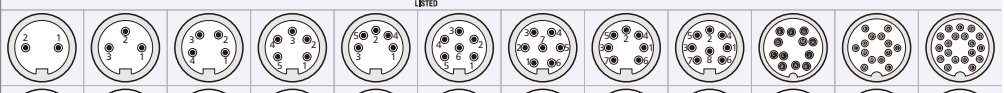
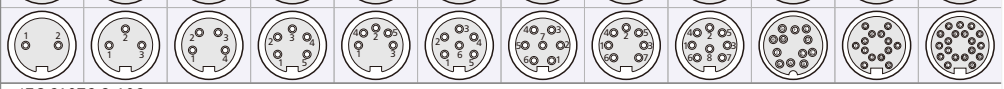



Female

RoHS




## Specifications

| Contacts | 2 | 3 | 4 | 5-a | 5-b | 6 | 7-a | 7-b | 8 | 12 | 14-b | 19 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Certification | cULus LISTED CYJV/7.E321413 | | | | | | | | | | | |
| Pin layout(Male) |  | | | | | | | | | | | |
| Pin layout(Female) |  | | | | | | | | | | | |
| Standard | IEC 61076-2-106 | | | | | | | | | | | |
| Ambient temperature | -25°C~+85°C | | | | | | | | | | | |
| Connector insert | PBT | | | | | | | | | | | |
| Connector contacts | Brass with gold plated | | | | | | | | | | | |
| Connector screw/body | Zinc alloy with nickel plated | | | | | | | | | | | |
| Coupling screw | PA+GF | | | | | | | | | | | |
| O-ring(of Female) | NBR/FKM | | | | | | | | | | | |
| Insulation resistance | ⩾100MΩ | | | | | | | | | | | |
| Contact resistance | ⩽5mΩ | | | | | | | | | | | |
| Shielding | Available | | | | | | | | | | | |
| Suitable cable Dia | PG7:4~6; PG9:6~8; PG11:8~10mm | | | | | | | | | | | |
| IP rating | IP65, IP67 in locked condition | | | | | | | | | | | |
| Mating endurance | >100 cycles | | | | | | | | | | | |
| Rated current | 7A(40°C) | | 6A(40°C) | | | 5A(40°C) | | | | 3A(40°C) | | |
| Rated voltage | 250V(100V) AC/DC | | | 250V(63V) | 60V(32V) | 250V(63V) | 125V(63V) | | | 60V(32V) | | |
| Wire gauge | 0.75~0.25mm² (AWG18~20) | | | | | | | | | 0.34~0.25mm² (AWG22~24) | | |
| Assembly Instruction | Refer to page 438 | | | | | | | | | | | |

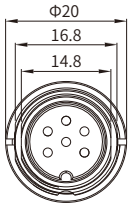
## Part Number

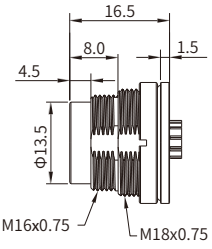
| Pins | Cable length | Male | | | Female | | |
|---|---|---|---|---|---|---|---|
| | | PG9 | PG7 | PG11 | PG9 | PG7 | PG11 |
| 2 | 1m | MB16MWSAFF02ST-3 | MB16MWSAFF02ST-4 | MB16MWSAFF02ST-7 | MB16FWSAFF02ST-3 | MB16FWSAFF02ST-4 | MB16FWSAFF02ST-7 |
| 3 | 1m | MB16MWSAFF03ST-3 | MB16MWSAFF03ST-4 | MB16MWSAFF03ST-7 | MB16FWSAFF03ST-3 | MB16FWSAFF03ST-4 | MB16FWSAFF03ST-7 |
| 4 | 1m | MB16MWSAFF04ST-3 | MB16MWSAFF04ST-4 | MB16MWSAFF04ST-7 | MB16FWSAFF04ST-3 | MB16FWSAFF04ST-4 | MB16FWSAFF04ST-7 |
| 5-a | 1m | MB16MWSAFF05AST-3 | MB16MWSAFF05AST-4 | MB16MWSAFF05AST-7 | MB16FWSAFF05AST-3 | MB16FWSAFF05AST-4 | MB16FWSAFF05AST-7 |
| 5-b | 1m | MB16MWSAFF05BST-3 | MB16MWSAFF05BST-4 | MB16MWSAFF05BST-7 | MB16FWSAFF05BST-3 | MB16FWSAFF05BST-4 | MB16FWSAFF05BST-7 |
| 6 | 1m | MB16MWSAFF06ST-3 | MB16MWSAFF06ST-4 | MB16MWSAFF06ST-7 | MB16FWSAFF06ST-3 | MB16FWSAFF06ST-4 | MB16FWSAFF06ST-7 |
| 7-a | 1m | MB16MWSAFF07AST-3 | MB16MWSAFF07AST-4 | MB16MWSAFF07AST-7 | MB16FWSAFF07AST-3 | MB16FWSAFF07AST-4 | MB16FWSAFF07AST-7 |
| 7-b | 1m | MB16MWSAFF07BST-3 | MB16MWSAFF07BST-4 | MB16MWSAFF07BST-7 | MB16FWSAFF07BST-3 | MB16FWSAFF07BST-4 | MB16FWSAFF07BST-7 |
| 8 | 1m | MB16MWSAFF08ST-3 | MB16MWSAFF08ST-4 | MB16MWSAFF08ST-7 | MB16FWSAFF08ST-3 | MB16FWSAFF08ST-4 | MB16FWSAFF08ST-7 |
| 12 | 1m | MB16MWSAFF12ST-3 | MB16MWSAFF12ST-4 | MB16MWSAFF12ST-7 | MB16FWSAFF12ST-3 | MB16FWSAFF12ST-4 | MB16FWSAFF12ST-7 |
| 14-b | 1m | MB16MWSAFF14BST-3 | MB16MWSAFF14BST-4 | MB16MWSAFF14BST-7 | MB16FWSAFF14BST-3 | MB16FWSAFF14BST-4 | MB16FWSAFF14BST-7 |
| 19 | 1m | MB16MWSAFF19ST-3 | MB16MWSAFF19ST-4 | MB16MWSAFF19ST-7 | MB16FWSAFF19ST-3 | MB16FWSAFF19ST-4 | MB16FWSAFF19ST-7 |

# M16

## M16 Straight Connector, Panel Mount, Die-cast Screw, Solder, Front fastened

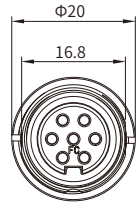
Male

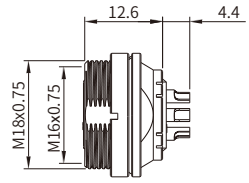



RoHS IP67

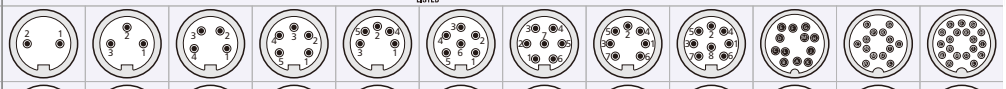
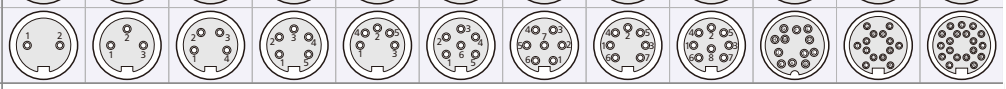
Female




RoHS IP67

## Specifications

| Contacts | 2 | 3 | 4 | 5-a | 5-b | 6 | 7-a | 7-b | 8 | 12 | 14-b | 19 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Certification | cULus LISTED CYJV/7.E321413 | | | | | | | | | | | |
| Pin layout(Male) |  | | | | | | | | | | | |
| Pin layout(Female) |  | | | | | | | | | | | |
| Standard | IEC 61076-2-106 | | | | | | | | | | | |
| Ambient temperature | -15°C~+85°C (flexible installation), -30°C~+85°C (fixed installation) | | | | | | | | | | | |
| Customized temperature | -25°C ~ +85°C (flexible installation), -40°C ~ +85°C (fixed installation) | | | | | | | | | | | |
| Connector insert | PBT | | | | | | | | | | | |
| Connector contacts | Brass with gold plated | | | | | | | | | | | |
| Connector screw/body | Zinc alloy with nickel plated | | | | | | | | | | | |
| Coupling screw | Brass with nickel plated | | | | | | | | | | | |
| O-ring | NBR/FKM | | | | | | | | | | | |
| Insulation resistance | ≥100MΩ | | | | | | | | | | | |
| Contact resistance | ≤5mΩ | | | | | | | | | | | |
| Earth tag/pin | Unavailable | | | | | | | | | | | |
| IP rating | IP65, IP67 in locked condition | | | | | | | | | | | |
| Mating endurance | >100 cycles | | | | | | | | | | | |
| Rated current | 7A(40°C) | | 6A(40°C) | | | 5A(40°C) | | | | 3A(40°C) | | |
| Rated voltage | 250V(100V) AC/DC | | 250V(63V) | 60V(32V) | | 250V(63V) | 125V(63V) | | 60V(32V) | | | |
| Wire gauge | 0.75~0.25mm²(AWG18~20) | | | | | | | | | 0.34~0.25mm²(AWG22~24) | | |

## Part Number

| Pins | Cable length | Male | Female |
|---|---|---|---|
| 2 | 1m | MB16MSAFHD02ST-6 | MB16FSAFHD02ST-6 |
| 3 | 1m | MB16MSAFHD03ST-6 | MB16FSAFHD03ST-6 |
| 4 | 1m | MB16MSAFHD04ST-6 | MB16FSAFHD04ST-6 |
| 5-a | 1m | MB16MSAFHD05AST-6 | MB16FSAFHD05AST-6 |
| 5-b | 1m | MB16MSAFHD05BST-6 | MB16FSAFHD05BST-6 |
| 6 | 1m | MB16MSAFHD06ST-6 | MB16FSAFHD06ST-6 |
| 7-a | 1m | MB16MSAFHD07AST-6 | MB16FSAFHD07AST-6 |
| 7-b | 1m | MB16MSAFHD07BST-6 | MB16FSAFHD07BST-6 |
| 8 | 1m | MB16MSAFHD08ST-6 | MB16FSAFHD08ST-6 |
| 12 | 1m | MB16MSAFHD12ST-6 | MB16FSAFHD12ST-6 |
| 14-b | 1m | MB16MSAFHD14BST-6 | MB16FSAFHD14BST-6 |
| 19 | 1m | MB16MSAFHD19ST-6 | MB16FSAFHD19ST-6 |

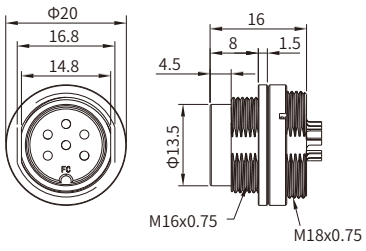
## Default wire colors

| Pin No. | | | | | | | | | | | | |  |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pin 1 | RD | BN | BN | BN | BN | WH | WH | WH | WH | WH | WH | WH | WH |
| Pin 2 | BK | BU | WH | WH | WH | BN | BN | BN | BN | BN | BK | BK | BK |
| Pin 3 | | BK | BU | BU | BU | GN | GN | GN | GN | GN | GN | GN | GN |
| Pin 4 | | | BK | BK | BK | YE | YE | YE | YE | YE | RD | RD | RD |
| Pin 5 | | | | GY | GY | GY | GY | GY | GY | GY | OR | OR | OR |
| Pin 6 | | | | | | PK | PK | PK | PK | PK | BU | BU | BU |
| Pin 7 | | | | | | | BU | BU | BU | BU | BN | BN | BN |
| Pin 8 | | | | | | | | | RD | RD | YE | YE | YE |
| Pin 9 | | | | | | | | | | OR | VT | VT | VT |
| Pin 10 | | | | | | | | | | TP | GY | GY | GY |
| Pin 11 | | | | | | | | | | BK | PK | PK | PK |
| Pin 12 | | | | | | | | | | VT | BK/WH | BK/WH | BK/WH |
| Pin 13 | | | | | | | | | | | BK/RD | BK/RD | BK/RD |
| Pin 14 | | | | | | | | | | | BK/GN | BK/GN | BK/GN |
| Pin 15 | | | | | | | | | | | | BK/YE | BK/YE |
| Pin 16 | | | | | | | | | | | | BK/BN | BK/BN |
| Pin 17 | | | | | | | | | | | | BK/BU | BK/BU |
| Pin 18 | | | | | | | | | | | | OR/WH | OR/WH |
| Pin 19 | | | | | | | | | | | | GN/WH | GN/WH |

# M16

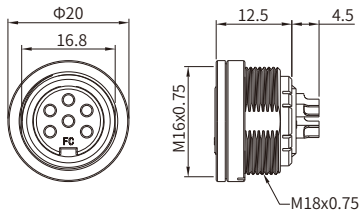
## M16 Straight Connector, Panel Mount, Die-cast Screw, Solder, Rear fastened

Male



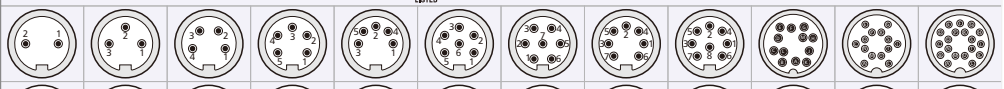
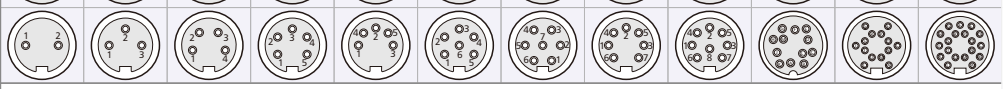

RoHS

Female




RoHS

## Specifications

| Contacts | 2 | 3 | 4 | 5-a | 5-b | 6 | 7-a | 7-b | 8 | 12 | 14-b | 19 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Certification | CYJV/7.E321413 | | | | | | | | | | | |
| Pin layout(Male) |  | | | | | | | | | | | |
| Pin layout(Female) |  | | | | | | | | | | | |
| Standard | IEC 61076-2-106 | | | | | | | | | | | |
| Ambient temperature | -15°C~+85°C (flexible installation), -30°C~+85°C (fixed installation) | | | | | | | | | | | |
| Customized temperature | -25°C ~ +85°C (flexible installation), -40°C ~ +85°C (fixed installation) | | | | | | | | | | | |
| Connector insert | PBT | | | | | | | | | | | |
| Connector contacts | Brass with gold plated | | | | | | | | | | | |
| Connector screw/body | Zinc alloy with nickel plated | | | | | | | | | | | |
| Coupling screw | Brass with nickel plated | | | | | | | | | | | |
| O-ring | NBR/FKM | | | | | | | | | | | |
| Insulation resistance | ⩾100MΩ | | | | | | | | | | | |
| Contact resistance | ⩽5mΩ | | | | | | | | | | | |
| Earth tag/pin | Unavailable | | | | | | | | | | | |
| IP rating | IP65, IP67 in locked condition | | | | | | | | | | | |
| Mating endurance | >100 cycles | | | | | | | | | | | |
| Rated current | 7A(40°C) | | 6A(40°C) | | | 5A(40°C) | | | | 3A(40°C) | | |
| Rated voltage | 250V(100V) AC/DC | | | 250V(63V) | 60V(32V) | 250V(63V) | 125V(63V) | | | 60V(32V) | | |
| Wire gauge | 0.75~0.25mm² (AWG18~20) | | | | | | | | | 0.34~0.25mm² (AWG22~24) | | |

## Part Number

| Pins | Cable length | Male | Female |
|---|---|---|---|
| 2 | 1m | MB16MSARHD02ST-6 | MB16FSARHD02ST-6 |
| 3 | 1m | MB16MSARHD03ST-6 | MB16FSARHD03ST-6 |
| 4 | 1m | MB16MSARHD04ST-6 | MB16FSARHD04ST-6 |
| 5-a | 1m | MB16MSARHD05AST-6 | MB16FSARHD05AST-6 |
| 5-b | 1m | MB16MSARHD05BST-6 | MB16FSARHD05BST-6 |
| 6 | 1m | MB16MSARHD06ST-6 | MB16FSARHD06ST-6 |
| 7-a | 1m | MB16MSARHD07AST-6 | MB16FSARHD07AST-6 |
| 7-b | 1m | MB16MSARHD07BST-6 | MB16FSARHD07BST-6 |
| 8 | 1m | MB16MSARHD08ST-6 | MB16FSARHD08ST-6 |
| 12 | 1m | MB16MSARHD12ST-6 | MB16FSARHD12ST-6 |
| 14-b | 1m | MB16MSARHD14BST-6 | MB16FSARHD14BST-6 |
| 19 | 1m | MB16MSARHD19ST-6 | MB16FSARHD19ST-6 |

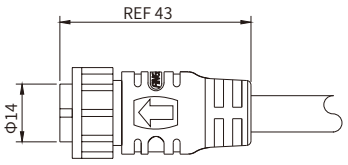
## Default wire colors

| Pin No. | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pin 1 | RD | BN | BN | BN | BN | WH | WH | WH | WH | WH | WH | WH |
| Pin 2 | BK | BU | WH | WH | WH | BN | BN | BN | BN | BN | BK | BK |
| Pin 3 | | BK | BU | BU | BU | GN | GN | GN | GN | GN | GN | GN |
| Pin 4 | | | BK | BK | BK | YE | YE | YE | YE | YE | RD | RD |
| Pin 5 | | | | GY | GY | GY | GY | GY | GY | GY | OR | OR |
| Pin 6 | | | | | | PK | PK | PK | PK | PK | BU | BU |
| Pin 7 | | | | | | | BU | BU | BU | BU | BN | BN |
| Pin 8 | | | | | | | | | RD | RD | YE | YE |
| Pin 9 | | | | | | | | | | OR | VT | VT |
| Pin 10 | | | | | | | | | | TP | GY | GY |
| Pin 11 | | | | | | | | | | BK | PK | PK |
| Pin 12 | | | | | | | | | | VT | BK/WH | BK/WH |
| Pin 13 | | | | | | | | | | | BK/RD | BK/RD |
| Pin 14 | | | | | | | | | | | BK/GN | BK/GN |
| Pin 15 | | | | | | | | | | | | BK/YE |
| Pin 16 | | | | | | | | | | | | BK/BN |
| Pin 17 | | | | | | | | | | | | BK/BU |
| Pin 18 | | | | | | | | | | | | OR/WH |
| Pin 19 | | | | | | | | | | | | GN/WH |

# M16

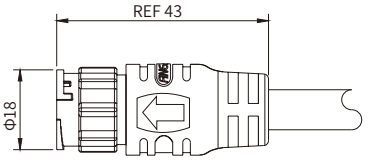
## M16 Straight Connector, Molded Cable, Quick-lock Type

Male




RoHS

Female




RoHS

## Specifications

| Contacts | 8 | 9 |
|---|---|---|
| Pin layout(Male) | | |
| Pin layout(Female) | | |
| Ambient temperature | -40°C ~ +85°C(fixed installation) /-25°C ~ +85°C(flexible installation) | |
| Connector insert | PA+GF | |
| Connector contacts | Brass with gold plated | |
| Connector overmold | TPU | |
| Quick-lock fix cap(of Male) | PA+GF | |
| O-ring(of Male) | FKM | |
| Insulation resistance | ⩾100MΩ | |
| Contact resistance | ⩽5mΩ | |
| Shielding | Unavailable | |
| IP rating | IP65, IP67 in locked condition | |
| Mating endurance | >100 cycles | |
| Rated current | 4A | |
| Rated voltage | 250V AC / 300V DC | |
| Wire gauge | 0.34mm$^2$(AWG22) | |

## Part Number

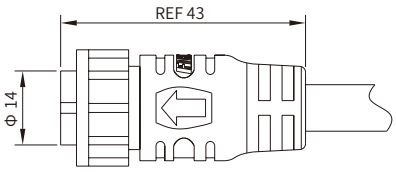
| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 8 | 1m | MA16MAQ08ST-10CB34 | MA16MAQ08ST-10RB34 | MA16FAQ08ST-10CB34 | MA16FAQ08ST-10RB34 |
| | 3m | MA16MAQ08ST-30CB34 | MA16MAQ08ST-30RB34 | MA16FAQ08ST-30CB34 | MA16FAQ08ST-30RB34 |
| | 5m | MA16MAQ08ST-50CB34 | MA16MAQ08ST-50RB34 | MA16FAQ08ST-50CB34 | MA16FAQ08ST-50RB34 |
| 9 | 1m | MA16MAQ09ST-10CB34 | MA16MAQ09ST-10RB34 | MA16FAQ09ST-10CB34 | MA16FAQ09ST-10RB34 |
| | 3m | MA16MAQ09ST-30CB34 | MA16MAQ09ST-30RB34 | MA16FAQ09ST-30CB34 | MA16FAQ09ST-30RB34 |
| | 5m | MA16MAQ09ST-50CB34 | MA16MAQ09ST-50RB34 | MA16FAQ09ST-50CB34 | MA16FAQ09ST-50RB34 |

## Default wire colors

| Pin No. | | |
|---|---|---|
| Pin 1 | WH | BK |
| Pin 2 | BN | BN |
| Pin 3 | GN | RD |
| Pin 4 | YE | OR |
| Pin 5 | GY | YE |
| Pin 6 | PK | GN |
| Pin 7 | BU | BU |
| Pin 8 | RD | WH |
| Pin 9 | | GY |

# M16 Straight Connector, Molded Cable, Quick-lock Type, With Fix-cap

Female




RoHS

## Specifications

| Contacts | 8 | 9 |
|---|---|---|
| Pin layout(Female) | | |
| Ambient temperature | -40°C ~ +85°C(fixed installation) /-25°C ~ +85°C(flexible installation) | |
| Connector insert | PA+GF | |
| Connector contacts | Brass with gold plated | |
| Connector overmold | TPU | |
| Quick-lock fix cap | PA+GF | |
| O-ring | FKM | |
| Insulation resistance | ⩾100MΩ | |
| Contact resistance | ⩽5mΩ | |
| Shielding | Unavailable | |
| IP rating | IP65, IP67 in locked condition | |
| Mating endurance | >100 cycles | |
| Rated current | 4A | |
| Rated voltage | 250V AC / 300V DC | |
| Wire gauge | 0.34mm$^2$(AWG22) | |

## Part Number

| Pins | Cable length | Female | |
|---|---|---|---|
| | | PVC | PUR |
| 8 | 1m | MA16FRQ08ST-10CB34 | MA16FRQ08ST-10RB34 |
| | 3m | MA16FRQ08ST-30CB34 | MA16FRQ08ST-30RB34 |
| | 5m | MA16FRQ08ST-50CB34 | MA16FRQ08ST-50RB34 |
| 9 | 1m | MA16FRQ09ST-10CB34 | MA16FRQ09ST-10RB34 |
| | 3m | MA16FRQ09ST-30CB34 | MA16FRQ09ST-30RB34 |
| | 5m | MA16FRQ09ST-50CB34 | MA16FRQ09ST-50RB34 |

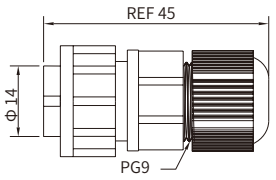
## Default wire colors

| Pin No. | | |
|---|---|---|
| Pin 1 | WH | BK |
| Pin 2 | BN | BN |
| Pin 3 | GN | RD |
| Pin 4 | YE | OR |
| Pin 5 | GY | YE |
| Pin 6 | PK | GN |
| Pin 7 | BU | BU |
| Pin 8 | RD | WH |
| Pin 9 | | GY |

# M16

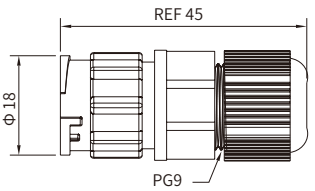
## M16 Straight Connector, Field Wirable Assembly, Quick-lock Type, Solder

Male




RoHS

Female




RoHS

## Specifications

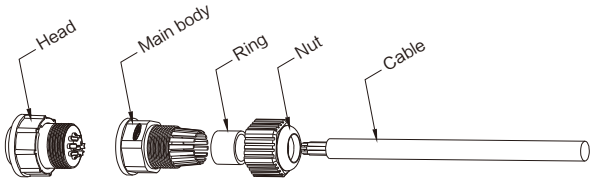
| Contacts | 8 | 9 |
|---|---|---|
| Pin layout(Male) | | |
| Pin layout(Female) | | |

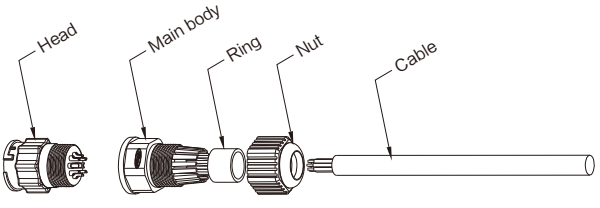
| | |
|---|---|
| Ambient temperature | -25°C~+90°C |
| Connector screw/body | PA+GF |
| Connector contacts | Brass with gold plated |
| Quick-lock fix cap(of Male) | PA+GF |
| O-ring | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Shielding | Unavailable |
| IP rating | IP65, IP67 in locked condition |
| Mating endurance | >100 cycles |
| Rated current | 4A |
| Rated voltage | 250V AC / 300V DC |
| Wire gauge | 0.34mm²(AWG22) |

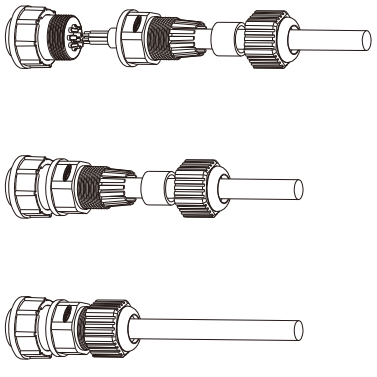
## Part Number

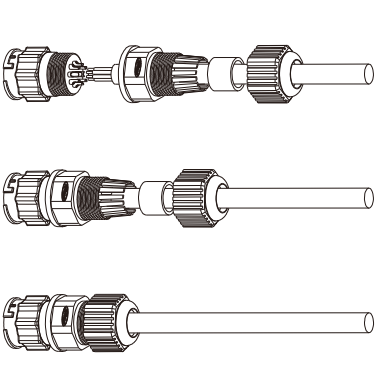
| Pins | Male | Female |
|---|---|---|
| 8 | MB16MAAQ08ST | MB16FAAQ08ST |
| 9 | MB16MAAQ09ST | MB16FAAQ09ST |

## Assembly Instruction



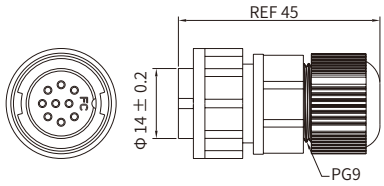





# M16

## M16 Straight Connector, Field Assembly, Quick-lock Type, Solder, With Fix-cap

Female




RoHS

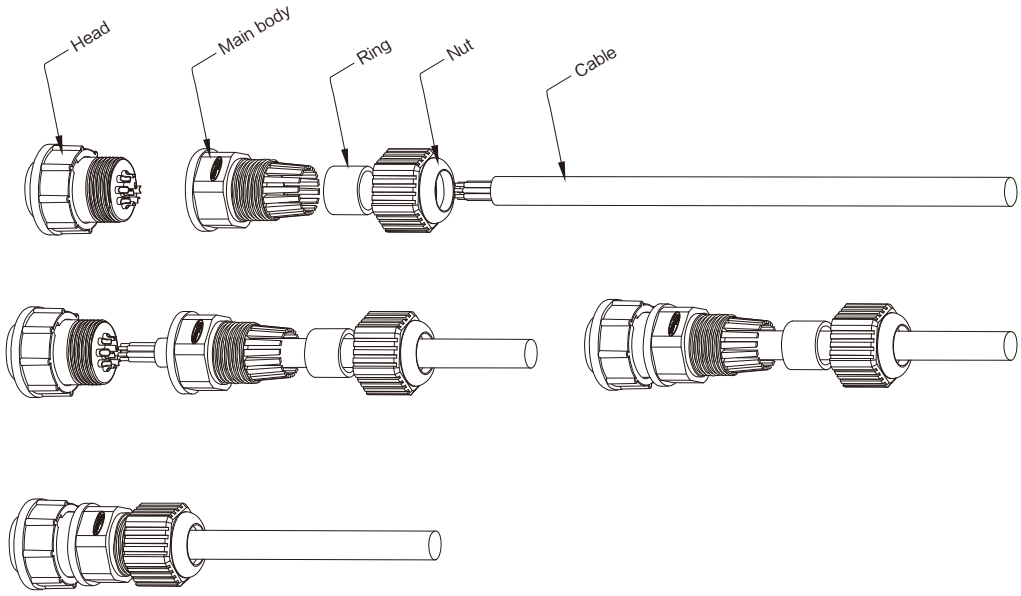
## Specifications

| Contacts | 8 | 9 |
|---|---|---|
| Pin layout(Male) | | |
| Pin layout(Female) | | |
| Ambient temperature | -25°C~+90°C | |
| Connector screw/body | PA+GF | |
| Connector contacts | Brass with gold plated | |
| Quick-lock fix cap(of Male) | PA+GF | |
| O-ring | FKM | |
| Insulation resistance | ⩾100MΩ | |
| Contact resistance | ⩽5mΩ | |
| Shielding | Unavailable | |
| IP rating | IP65, IP67 in locked condition | |
| Mating endurance | >100 cycles | |
| Rated current | 4A | |
| Rated voltage | 250V AC / 300V DC | |
| Wire gauge | 0.34mm$^2$(AWG22) | |

## Part Number

| Pins | Female |
|---|---|
| 8 | MB16FRAMQ08ST |
| 9 | MB16FRAMQ09ST |

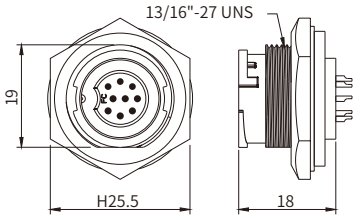
## Assembly Instruction



# M16

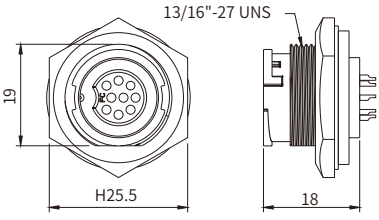
## M16 Straight Connector, Panel Mount, Quick-lock Type, Solder, Front fastened

Male




RoHS

Female




RoHS

## Specifications

| Contacts | 8 | 9 |
|---|---|---|
| Pin layout(Male) | | |
| Pin layout(Female) | | |
| Ambient temperature | -15°C~+85°C (flexible installation), -30°C~+85°C (fixed installation) | |
| Customized temperature | -25°C ~ +85°C (flexible installation), -40°C ~ +85°C (fixed installation) | |
| Connector insert | PA+GF | |
| Connector contacts | Brass with gold plated | |
| Coupling nut/screw | PA+GF | |
| Seal / O-ring | Epoxy resin / FKM | |
| Insulation resistance | ⩾100MΩ | |
| Contact resistance | ⩽5mΩ | |
| Earth tag/pin | Unavailable | |
| IP rating | IP65, IP67 in locked condition | |
| Mating endurance | >100 cycles | |
| Rated current | 4A | |
| Rated voltage | 250V AC / 300V DC | |
| Wire gauge | 0.34mm$^2$ (AWG22) | |

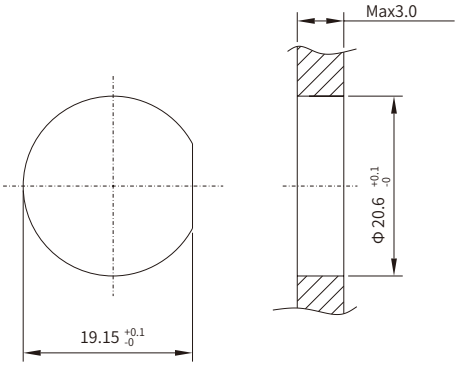
## Part Number

| Pins | Cable length | Male | Female |
|---|---|---|---|
| 8 | 0.1m | MB16MSAFQ08ST-3401 | MB16FSAFQ08ST-3401 |
| | 0.3m | MB16MSAFQ08ST-3403 | MB16FSAFQ08ST-3403 |
| 9 | 0.1m | MB16MSAFQ09ST-3401 | MB16FSAFQ09ST-3401 |
| | 0.3m | MB16MSAFQ09ST-3403 | MB16FSAFQ09ST-3403 |

## Default wire colors

| Pin No. | | |
|---|---|---|
| Pin 1 | WH | BK |
| Pin 2 | BN | BN |
| Pin 3 | GN | RD |
| Pin 4 | YE | OR |
| Pin 5 | GY | YE |
| Pin 6 | PK | GN |
| Pin 7 | BU | BU |
| Pin 8 | RD | WH |
| Pin 9 | | GY |

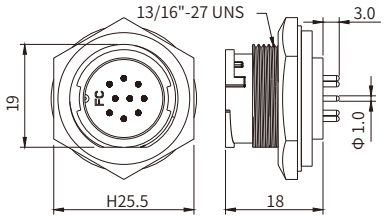
## Panel Cut-out Dimensions



# M16

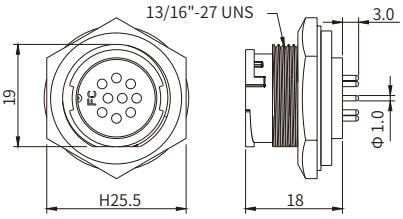
## M16 Straight Connector, Panel Mount, Quick-lock Type, PCB Type, Front fastened

Male




RoHS

Female




RoHS

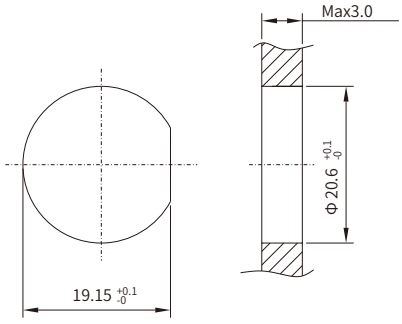
## Specifications

| Contacts | 8 | 9 |
|---|---|---|
| Pin layout(Male) | | |
| Pin layout(Female) | | |
| Ambient temperature | -25°C ~ +90°C | |
| Connector insert | PA+GF | |
| Connector contacts | Brass with gold plated | |
| Coupling nut/screw | PA+GF | |
| Seal / O-ring | Epoxy resin / FKM | |
| Insulation resistance | ⩾100MΩ | |
| Contact resistance | ⩽5mΩ | |
| Earth tag/pin | Unavailable | |
| IP rating | IP65, IP67 in locked condition | |
| Mating endurance | >100 cycles | |
| Rated current | 4A | |
| Rated voltage | 250V AC / 300V DC | |

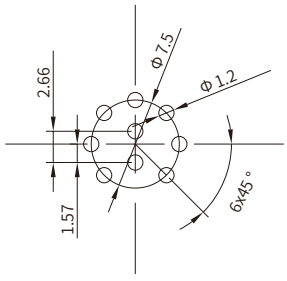
## Part Number

| Pins | Male | Female |
|---|---|---|
| 8 | MB16MBAFQ08ST | MB16FBAFQ08ST |
| 9 | MB16MBAFQ09ST | MB16FBAFQ09ST |

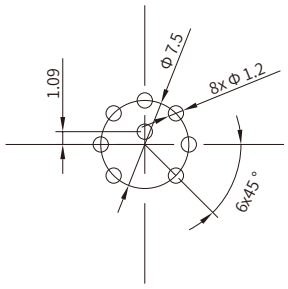
## Panel Cut-out Dimensions




## PCB Layout




9 Pin

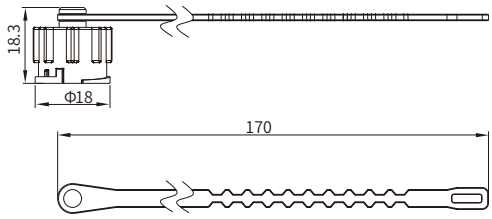



8 Pin

# M16 Protection Cap

## M16 Protection Cap for Male With Fix-Cap Cable Connector

- Connector series: M16
- Gender: for Male
- Locking type: Quick-lock
- Part No.: PCSM16-1

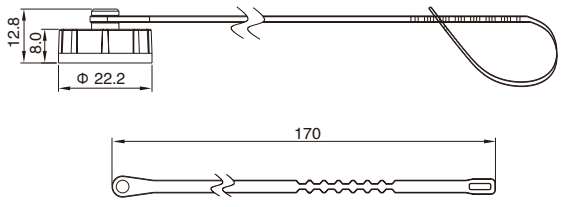



### General information

| | |
|---|---|
| Material: | PA+GF |
| Loop: | TPU |
| Color: | Black |
| Degree of protection: | IP65, IP67 in locked condition |

## M16 Protection Cap for female Molded cable connector without fix cap

- Connector series: M16
- Gender: for Female
- Locking type: Quick-lock
- Part No.: PCNM16-1



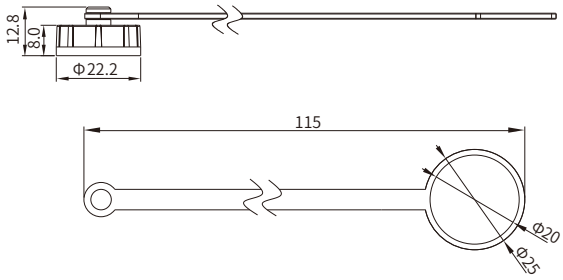

### General information

| | |
|---|---|
| Material: | PA+GF |
| Gasket: | FKM |
| Loop: | TPU |
| Color: | Black |
| Degree of protection: | IP65, IP67 in locked condition |

# M16 Protection Cap

## M16 Protection Cap for Male/ Female Panel-mount Connector

- Connector series: M16
- Gender: for Male/Female
- Locking type: Quick-lock
- Part No.: PCNM16-2



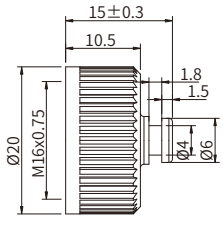

### General information

| | |
|---|---|
| Material: | PA+GF |
| Gasket: | FKM |
| Loop: | TPU |

| | |
|---|---|
| Color: | Black |
| Degree of protection: | IP65, IP67 in locked condition |

## M16 Protection Cap for Male Connector

- Connector series: M16
- Gender: For Male
- Locking type: Fix screw
- Part No.: PCNM16x0.75-1




### General information

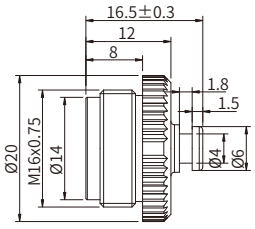
| | |
|---|---|
| Color: | Black |
| Nut/screw: | PA+GF |

| | |
|---|---|
| Gasket: | FKM |
| IP rating: | IP67/IP68 in locked condition |

# M16 Protection Cap

## M16 Protection Cap for Female Connector

- Connector series: M16
- Gender:  For Female
- Locking type: Fix screw
- Part No.: PCSM16x0.75-1



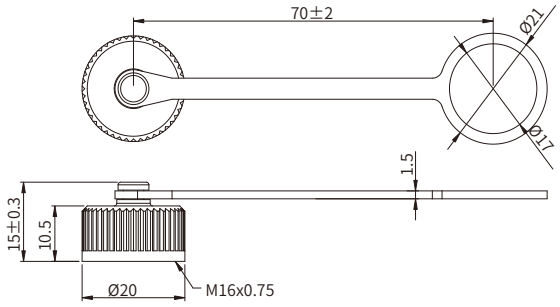

## General information

| | |
|---|---|
| Color: | Black |
| Nut/screw: | PA+GF |

| | |
|---|---|
| IP rating: | IP67/IP68 in locked condition |

## M16 Protection Cap for Male Panel-mount Connector

- Connector series: M16
- Gender: For Male
- Locking type: Fix screw
- Part No.: PCNM16x0.75-2




## General information

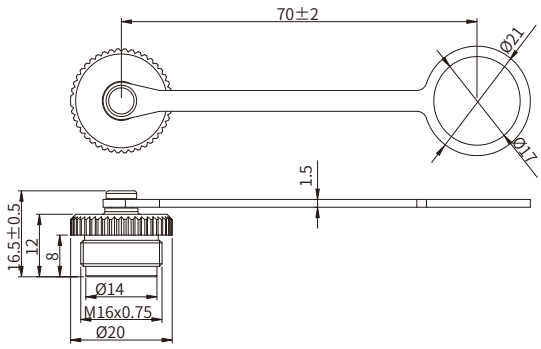
| | |
|---|---|
| Color: | Black |
| Nut/screw: | PA+GF |
| Gasket: | FKM |

| | |
|---|---|
| Loop: | TPU |
| IP rating: | IP67/IP68 in locked condition |

# M16 Protection Cap

## M16 Protection Cap for Female Panel-mount Connector

- Connector series: M16
- Gender: For Female
- Locking type: Fix screw
- Part No.: PCSM16x0.75-2




## General information

| | | | |
|---|---|---|---|
| Color: | Black | Loop: | TPU |
| Nut/screw: | PA+GF | IP rating: | IP67/IP68 in locked condition |

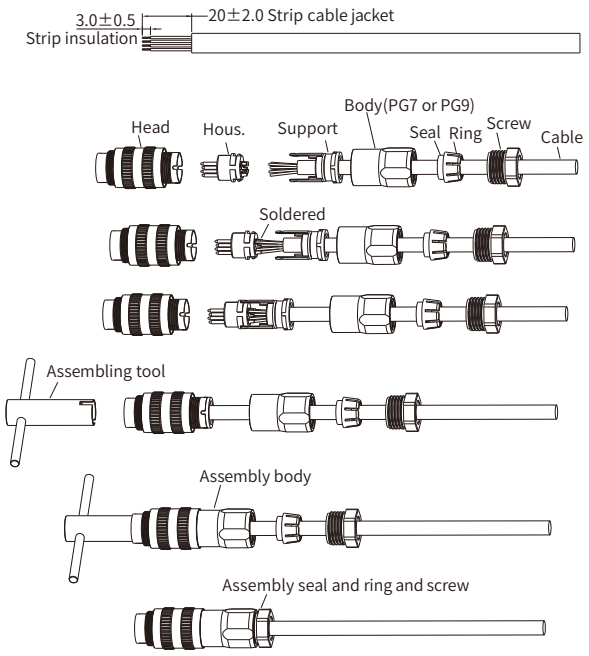
## M16 Connector Accessories

| Type | Part number | Accessories |
|---|---|---|
| Assembly tool for M16 connectors<br>For connectors with female thread | M16-TOOL-1 | |

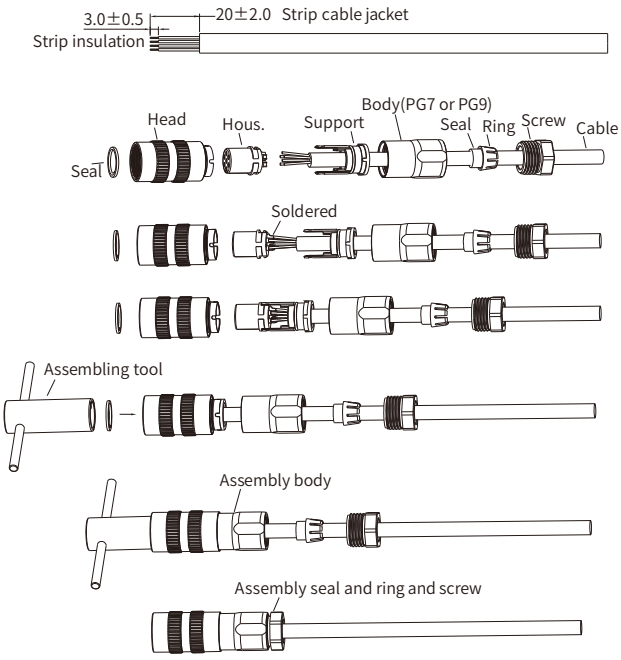
| Type | Part number | Accessories |
|---|---|---|
| Assembly tool for M16 connectors<br>For connectors with male thread | M16-TOOL-2 | |

# Assembly Instruction

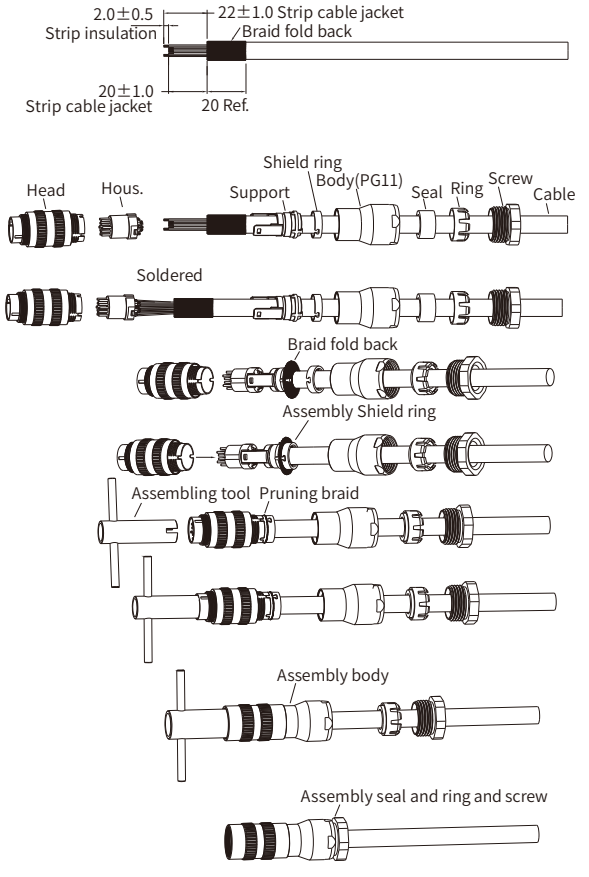
## ■ M16 2~8P male assembly method



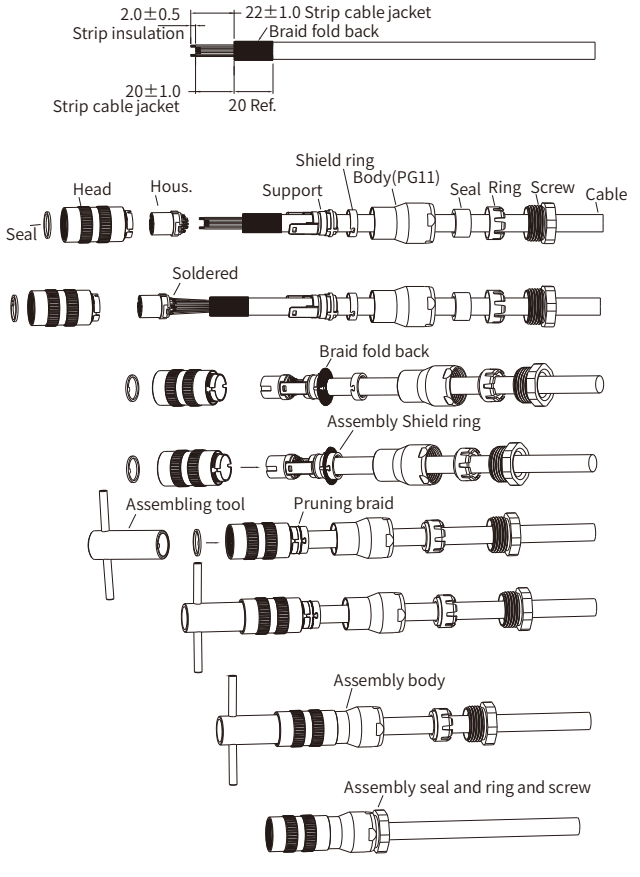

## ■ M16 2~8P female assembly method




## ■ M16 12~19P male assembly method (PG11 body)




## ■ M16 12~19P female assembly method (PG11 body)



# Circular sensor connectors

## M20 cables & connectors

With our intelligence and endeavor, the M20 series has been successfully developed, for the fields of intelligentized lighting, stage lighting control system, architectural and LED series. This series is divided into straight overmolding and panel-mount types. Their 3+5 hybrid-pole design is able to ensure signal and power transmission simultaneously. Fix screw locking system can meet IP68 rating in fully locked condition.

- IP68 rating in locked condition
- 3+5 Poles avaialbe for signal(1.5A) and power (13A) transmission
- PBT connector insert
- PVC/TPU cable jacket and length can be customized

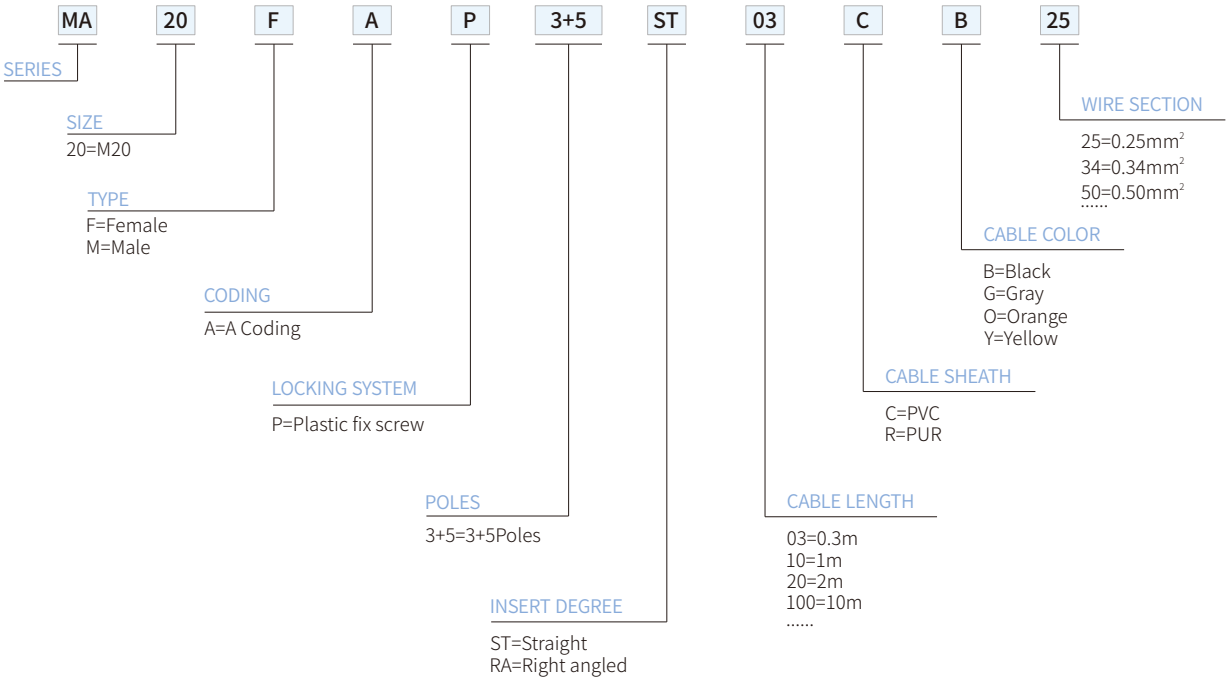
# M20 Quick Search Table

## M20 cables & connectors

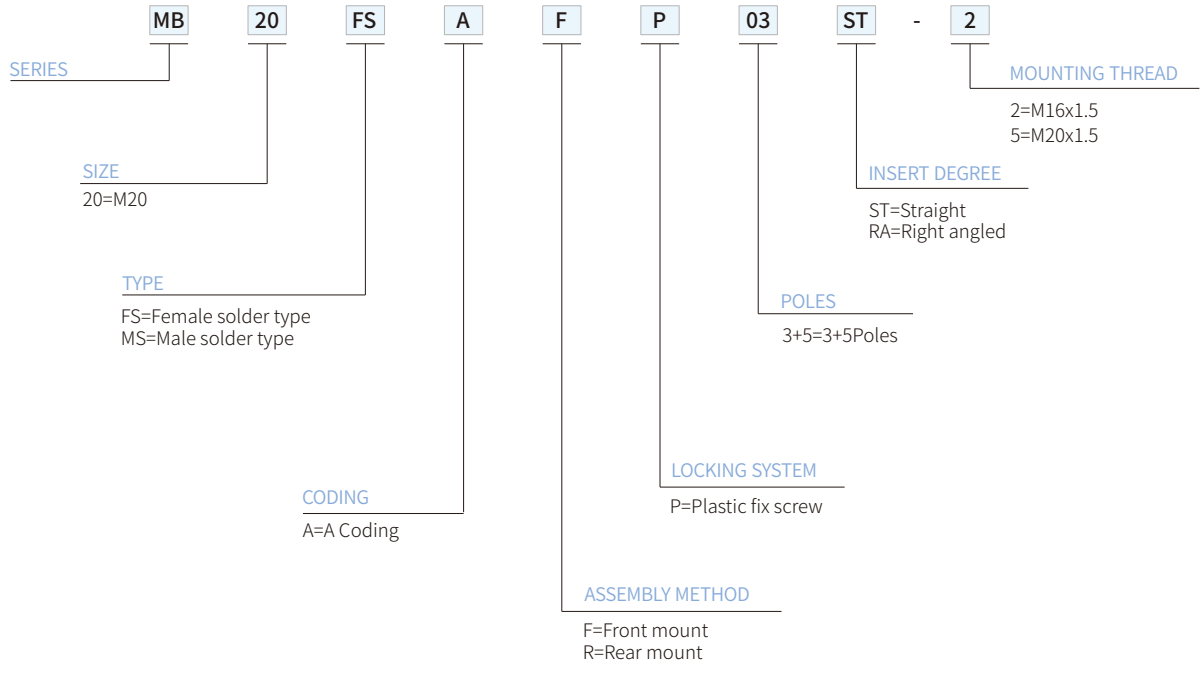
| M20 Quick Search Table | | | |
|---|---|---|---|
| | Locking type | Fix screw | |
| | Rated Current | 4A (signal 5Pins), 13A (power 3Pins) | |
| | Voltage | 300V | |
| | Wire Gauge / size | 26~22AWG/0.14~0.3mm², 20~14AWG0.5~2.5mm² | |
| | Pin layout | Male | Female |
| **Molded Cable** | | 3+5Pins (3+5) | |
| | Straight Connector, Molded Cable | 442 | 442 |
| **Terminator** | | 3+5Pins (3+5) | |
| | Straight Connector, Plastic Terminator | 443 | 443 |
| **Panel Mount Type** | | 3+5Pins (3+5) | |
| | Straight Connector, Panel Mount, Solder, Rear Fastened | 444 | 444 |
| **Adapter Connector** | | | |
| | Plastic U-Adapter, Male-Female | 445 | |

## How to Order Part Number

### M20 Series with cable molded




### M20 Series Assembly / Panel-mount type

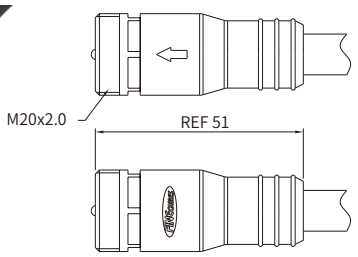


# M20

## M20 Straight Connector, Molded Cable

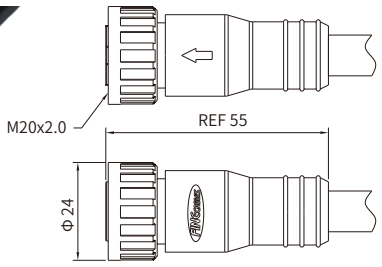
Male

RoHS




Female

RoHS




## Specifications

| Contacts | 3+5 |
|---|---|
| Pin layout(Male) | |
| Pin layout(Female) | |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) |
| Connector insert | PBT |
| Connector contacts | Brass with gold plated |
| Coupling nut/screw (of Female) | ASA |
| Seal/O-ring(of Female) | Silicone |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Shielding | Unavailable |
| IP rating | IP67, IP68 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 4A(signal 5Pins) / 13A(power 3Pins) |
| Rated voltage | 300V AC / DC |
| Wire gauge | Signal 5Pins: 0.14~0.3mm$^2$(AWG26~22) / Power 3Pins: 0.5~2.5mm$^2$(AWG20~14) |

## Part Number

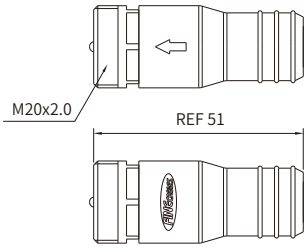
| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 3+5 | 1m | MA20MAP3+5ST-10CB25 | MA20FAP3+5ST-10RB25 | MA20FAP3+5ST-10CB25 | MA20FAP3+5ST-10RB25 |
| | 3m | MA20MAP3+5ST-30CB25 | MA20FAP3+5ST-30RB25 | MA20FAP3+5ST-30CB25 | MA20FAP3+5ST-30RB25 |
| | 5m | MA20MAP3+5ST-50CB25 | MA20FAP3+5ST-50RB25 | MA20FAP3+5ST-50CB25 | MA20FAP3+5ST-50RB25 |

## Default wire colors

| Pin No. | |
|---|---|
| L | BN |
| N | BK |
| G | YE/EN |
| Pin 1 | BRAID |
| Pin 2 | RD |
| Pin 3 | GY |
| Pin 4 | GN |
| Pin 5 | WH |

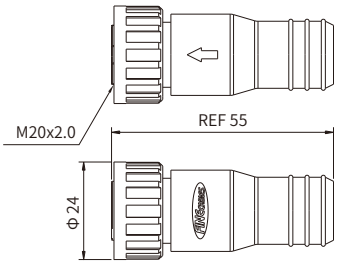
## M20 Straight Connector, Plastic Terminator

Male




RoHS

Female




RoHS

## Specifications

| Contacts | 3+5 |
|---|---|
| Pin layout(Male) | |
| Pin layout(Female) | |
| Ambient temperature | -20°C ~ +90°C |
| Connector insert | PBT |
| Connector contacts | Brass with gold plated |
| Coupling nut/screw (of Female) | ASA |
| Seal/O-ring(of Female) | Silicone |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Shielding | Unavailable |
| IP rating | IP67, IP68 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 4A(signal 5Pins) / 13A(power 3Pins) |
| Rated voltage | 300V AC / DC |

## Part Number

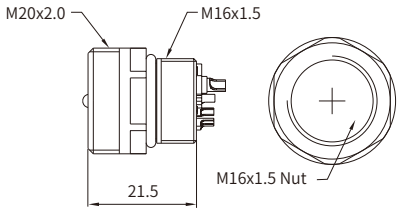
| Pins | Male | Female |
|---|---|---|
| 3+5 | MA20MAP3+5ST-T | MA20FAP3+5ST-T |

# M20

## M20 Straight Connector, Panel Mount, Solder, Rear Fastened

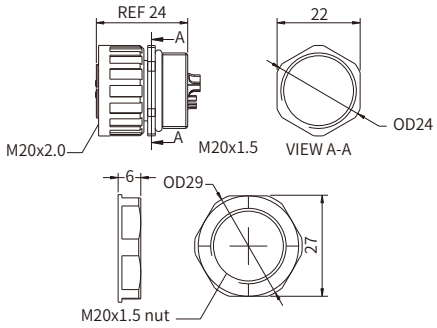
Male

RoHS




Female

RoHS




## Specifications

| | |
|---|---|
| Contacts | 3+5 |
| Certification | cULus ECBT2(ECBT8).E473386 |
| Pin layout(Male) | |
| Pin layout(Female) | |
| Ambient temperature | -25°C ~ +125°C |
| Connector insert | PBT |
| Connector contacts | Brass with gold plated |
| Coupling nut/screw | PA66(Male) / ASA(Female) |
| Seal/O-ring | Silicone |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Shielding | Unavailable |
| IP rating | IP67, IP68 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 4A(signal 5Pins) / 13A(power 3Pins) |
| Rated voltage | 300V AC / DC |
| Wire gauge | Signal 5Pins: 0.14~0.3mm²(AWG26~22) / Power 3Pins: 0.5~2.5mm²(AWG20~14) |

## Part Number

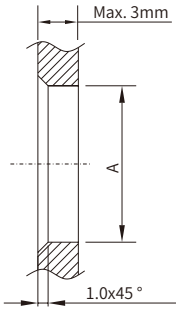
| Pins | Male | Female |
|---|---|---|
| 3+5 | MB20MSARP3+5ST-2 | MB20FSARP3+5ST-5 |

## Default wire colors

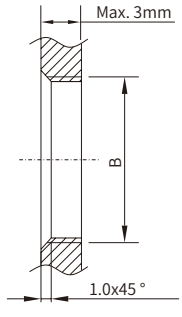
| Pin No. | |
|---|---|
| L | BN |
| N | BK |
| G | YE/EN |
| Pin 1 | BRAID |
| Pin 2 | RD |
| Pin 3 | GY |
| Pin 4 | GN |
| Pin 5 | WH |

## Panel Cut-out Dimensions

With bare hole



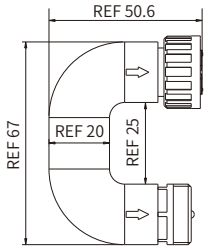

With thread to screw in

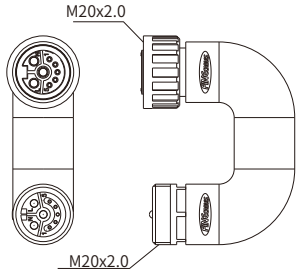



| | A | B |
|---|---|---|
| M16 | $16^{+0.1}_{-0}$ | M16x1.5 |

## M20 Plastic U-Adapter, Male-Female

RoHS



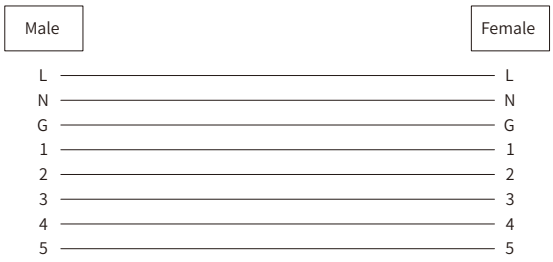

## Specifications

| Contacts | 3+5 |
|---|---|
| Pin layout(Male) | |
| Pin layout(Female) | |
| Ambient temperature | -20°C ~ +125°C |
| Connector insert | PBT |
| Connector contacts | Brass with gold plated |
| Coupling nut/screw | ASA |
| Seal/O-ring | Silicone |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Shielding | Unavailable |
| IP rating | IP67, IP68 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 4A(signal 5Pins) / 13A(power 3Pins) |
| Rated voltage | 300V AC / DC |

## Part Number

| Pins | Male-Female |
|---|---|
| 3+5 | MA20UP-MF3+5 |

## Circuit diagram



# Circular sensor connectors

## Mini-change (7/8") cables & connectors

The 7/8" mini-change connectors are mating compatible with industry mini-change connectors, and are designed for both signal and high-electricity current applications. The connection is sealed to an IP68 rating, with molded cable and panel receptacles available. Contacts are gold-plated, with a stainless steel locking sleeve also available as an option.

- Degree of protection IP68
- 3, 4, 5, 3+7 ,16 poles are available
- TPU over molded or metal shell
- Cable length customized, PUR and PVC cable options
- Anti-vibration locking screw design

# Mini-change(7/8") Quick Search Table

## Mini-change(7/8") cables & connectors

**Mini-change (7/8")**
**Quick Search Table**

| | | | | | |
|---|---|---|---|---|---|
| | Locking type | Fix screw | | | |
| | Rated Current | 15A | | | |
| | Voltage | 600V | | | |
| | Wire Gauge / size | 16~14AWG / 1.5mm² | | | |
| | Pin layout | Male | Female | Male | Female |
| **Molded Cable** | | 03 Pins | | 04 Pins | |
| | Straight Connector, Molded Cable | 451 | 451 | 451 | 451 |
| | Angled Connector, Molded Cable | 452 | 452 | 452 | 452 |
| **Assembly Type** | | 03 Pins | | 04 Pins | |
| | Straight Connector, Field Wirable Assembly, Screw joint | 453 | 453 | 453 | 453 |
| | Angled Connector, Field Wirable Assembly, Screw joint | 454 | 454 | 454 | 454 |
| | Straight Connector, Field Assembly, Screw Termination with Nut | 455 | 455 | 455 | 455 |
| | Angled Connector, Field Assembly, Screw Termination | 456 | 456 | 456 | 456 |
| | Straight Connector, Field Assembly, Screw Termination with pilot hole | 457 | 457 | 457 | 457 |
| **Panel Mount Type** | | 03 Pins | | 04 Pins | |
| | Straight Connector, Panel Mount, Crimp, Front fastened | 458 | 458 | 458 | 458 |
| | Straight Connector, Panel Mount, Crimp, Rear fastened | 459 | 459 | 459 | 459 |
| | Straight Connector, Panel Mount, PCB Type, Rear fastened | 460 | 460 | 460 | 460 |
| | Straight Connector, Male to Female Panel Mount | 461 | 461 | 461 | 461 |
| **Adapter Connector** | | 03 Pins | | 04 Pins | |
| | Straight Connector, I-Adapter, Female-Female | 462 | 462 | 462 | 462 |
| | Y-Splitter, Female-Male with M12 Female Connector | - | - | - | - |
| **Splitter Connector** | | 03 Pins | | 04 Pins | |
| | Y-Splitter, Female-2* Male | 464 | 464 | 464 | 464 |
| | T-Splitter, Male-Female, Molded Cable | - | - | - | - |
| | T-Splitter, Female-Male-Female | - | - | - | - |
| | T-Splitter, Male-Female with M12 Female Connector | - | - | - | - |
| **Terminator** | | 03 Pins | | 04 Pins | |
| | Straight Connector, Terminator | 468 | 468 | 468 | 468 |
| **Protection Cap** | | | | | |
| | Protection Cap for Male Molded Cable Connector | 469 | | | |
| | Protection Cap for Female Molded Cable Connector | 469 | | | |

# Mini-change(7/8") Quick Search Table

## Mini-change(7/8") cables & connectors

| Fix screw | | | | | | | |
|---|---|---|---|---|---|---|---|
| 15A | | 4A | | | 4A (signal 7Pins), 5A (power 3Pins) | | 4A | |
| 600V | | 60V | | | 250V | | 250V | |
| 16~24AWG / 1.5~1.0mm² | | ~ | | | 20~24AWG / 0.25~0.5mm² | | 24AWG / 0.25mm² | |
| | | | | | | | | |
| Male | Female | 7/8" Male | 7/8" Female | M12 Female | Male | Female | Male | Female |
| 05 Pins | | 05 Pins | | | 3+7 Pins | | 16 Pins | |
| 451 | 451 | - | | | 451 | 451 | 451 | 451 |
| 452 | 452 | - | | | 452 | 452 | 452 | 452 |
| 05 Pins | | 05 Pins | | | 3+7 Pins | | 16 Pins | |
| 453 | 453 | - | | | - | - | - | - |
| 454 | 454 | - | | | - | - | - | - |
| 455 | 455 | - | | | - | - | - | - |
| 456 | 456 | - | | | - | - | - | - |
| 457 | 457 | - | | | - | - | - | - |
| 05 Pins | | 05 Pins | | | 3+7 Pins | | 16 Pins | |
| 458 | 458 | - | | | - | - | 458 | 458 |
| 459 | 459 | - | | | 459 | 459 | 459 | 459 |
| 460 | 460 | - | | | - | - | 460 | 460 |
| 461 | 461 | - | | | - | - | - | - |
| 05 Pins | | 05 Pins | | | 3+7 Pins | | 16 Pins | |
| 462 | 462 | - | | | - | - | - | - |
| - | - | 463 | | | - | - | - | - |
| 05 Pins | | 05 Pins | | | 3+7 Pins | | 16 Pins | |
| 464 | 464 | - | | | - | - | - | - |
| 465 | 465 | - | | | - | - | - | - |
| 466 | 466 | - | | | - | - | - | - |
| - | - | 467 | | | - | - | - | - |
| 05 Pins | | 05 Pins | | | 3+7 Pins | | 16 Pins | |
| 468 | 468 | - | | | - | - | 468 | 468 |

# Mini-change(7/8")

## How to Order Part Number

### ■ 7/8" Series with cable molded

MINI-C | 03 | M | ST | - | M | - | 03 | C | B | 25

**SERIES**
MINI-C=Mini-change 7/8"

**POLES**
03=3 Poles
04=4 Poles
05=5 Poles
3+7=3+7 Poles
16=16 Poles

**GENDER**
F=Female
M=Male
FM=Female to male
FMF=Female to male to female
MFC=Male to female to cable
FFN=Female to female to NC
MFM=Male to female to male
FFM12=Female to male to M12 female

**INSERT DEGREE**
ST=Straight
RA=Right angled
T= T Type
Y= Y Type
I= I Type

**LOCKING SYSTEM**
M=Molding

**CABLE LENGTH**
03=0.3m
10=1m
20=2m
100=10m
.....

**CABLE SHEATH**
C=PVC
R=PUR
W= Wire

**CABLE COLOR**
B=Black
G=Gray
O=Orange
Y=Yellow

**WIRE SECTION**
50=0.50mm²
75=0.75mm²
.....

### ■ 7/8" Series Assembly / Panel-mount type

MINI-C | 03 | M | ST | - | PC | F | - | 03 | C | B | 25

**SERIES**
MINI-C=Mini-change 7/8"

**POLES**
03=3 Poles
04=4 Poles
05=5 Poles
3+7=3+7 Poles
16=16 Poles

**GENDER**
F=Female
M=Male
FM=Female to male

**INSERT DEGREE**
ST=Straight
RA=Right angled
I= I Type

**LOCKING SYSTEM**
PS=Panel Sloder Type
PC=Panel Crimp Type
PB=Panel PCB Type
SJ=assy screw joint,black anodize
(Al alloy connector screw or nut)
SD=assy screw joint,Hex Die-cast
(connector screw or nut)
SS=assy screw joint,Hex Die-cast
(connector screw or nut ,short type)
PFC= Panel Fixed Couple

**INSERT DEGREE**
F=Front mount
R=Rear mount

**CABLE LENGTH**
03=0.3m
10=1m
20=2m
100=10m
.....

**CABLE SHEATH**
C=PVC
R=PUR
W= Wire

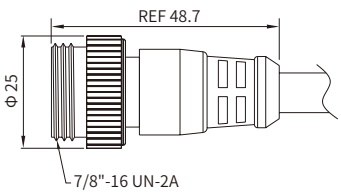
**CABLE COLOR**
B=Black
G=Gray
O=Orange
Y=Yellow
(Blank=wire)

**WIRE SECTION**
50=0.50mm²
75=0.75mm²
.....

# Mini-change(7/8")

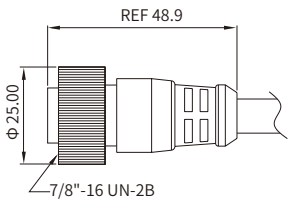
## Mini-change(7/8") Straight Connector, Molded Cable

Male




CE RoHS IP68

Female




CE RoHS IP68

## Specifications

| Contacts | 3 | 4 | 5 | 3+7 | 16 |
|---|---|---|---|---|---|
| Certification | cULus LISTED CYJV/7.E321413 | | | | |
| Pin layout(Male) | | | | | |
| Pin layout(Female) | | | | | |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | | | | |
| Connector insert | TPU | | | | |
| Connector contacts | Brass with gold plated | | | | |
| Connector overmold | TPU | | | | |
| Coupling nut/screw | Aluminium anodized black | | | | |
| Seal/O-ring(of Female) | FKM | | | | |
| Insulation resistance | ⩾100MΩ | | | | |
| Contact resistance | ⩽5mΩ | | | | |
| Shielding | Unavailable | | | | |
| IP rating | IP67, IP68 in locked condition | | | | |
| Mating endurance | >500 cycles | | | | |
| Rated current | 15A | | 8A | 4A(signal 7Pins) / 8A(power 3Pins) | 4A |
| Rated voltage | 600V AC / DC | | | 250V | |
| Wire gauge | 1.5mm² (16~14AWG) | | 1.5~1.0mm² (16~14AWG) | 0.25~0.5mm² (AWG24~20) | 0.25mm² (AWG24) |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 3 | 1m | MINI-C03MST-M-10CB100 | MINI-C03MST-M-10RB100 | MINI-C03FST-M-10CB100 | MINI-C03FST-M-10RB100 |
| | 3m | MINI-C03MST-M-30CB100 | MINI-C03MST-M-30RB100 | MINI-C03FST-M-30CB100 | MINI-C03FST-M-30RB100 |
| | 5m | MINI-C03MST-M-50CB100 | MINI-C03MST-M-50RB100 | MINI-C03FST-M-50CB100 | MINI-C03FST-M-50RB100 |
| 4 | 1m | MINI-C04MST-M-10CB100 | MINI-C04MST-M-10RB100 | MINI-C04FST-M-10CB100 | MINI-C04FST-M-10RB100 |
| | 3m | MINI-C04MST-M-30CB100 | MINI-C04MST-M-30RB100 | MINI-C04FST-M-30CB100 | MINI-C04FST-M-30RB100 |
| | 5m | MINI-C04MST-M-50CB100 | MINI-C04MST-M-50RB100 | MINI-C04FST-M-50CB100 | MINI-C04FST-M-50RB100 |
| 5 | 1m | MINI-C05MST-M-10CB50 | MINI-C05MST-M-10RB50 | MINI-C05FST-M-10CB50 | MINI-C05FST-M-10RB50 |
| | 3m | MINI-C05MST-M-30CB50 | MINI-C05MST-M-30RB50 | MINI-C05FST-M-30CB50 | MINI-C05FST-M-30RB50 |
| | 5m | MINI-C05MST-M-50CB50 | MINI-C05MST-M-50RB50 | MINI-C05FST-M-50CB50 | MINI-C05FST-M-50RB50 |
| 3+7 | 1m | MINI-C3+7MST-M-10CB25 | MINI-C3+7MST-M-10RB25 | MINI-C3+7FST-M-10CB25 | MINI-C3+7FST-M-10RB25 |
| | 3m | MINI-C3+7MST-M-30CB25 | MINI-C3+7MST-M-30RB25 | MINI-C3+7FST-M-30CB25 | MINI-C3+7FST-M-30RB25 |
| | 5m | MINI-C3+7MST-M-50CB25 | MINI-C3+7MST-M-50RB25 | MINI-C3+7FST-M-50CB25 | MINI-C3+7FST-M-50RB25 |
| 16 | 1m | MINI-C16MST-M-10CB25 | MINI-C16MST-M-10RB25 | MINI-C16FST-M-10CB25 | MINI-C16FST-M-10RB25 |
| | 3m | MINI-C16MST-M-30CB25 | MINI-C16MST-M-30RB25 | MINI-C16FST-M-30CB25 | MINI-C16FST-M-30RB25 |
| | 5m | MINI-C16MST-M-50CB25 | MINI-C16MST-M-50RB25 | MINI-C16FST-M-50CB25 | MINI-C16FST-M-50RB25 |

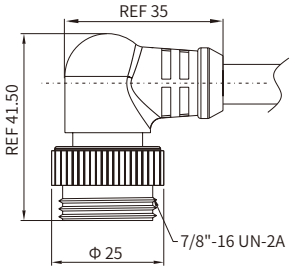
## Default wire colors

| Pin No. | | | | | |
|---|---|---|---|---|---|
| Pin 1 | BN | BN | BN | BN | WH |
| Pin 2 | BU | WH | WH | BU | BN |
| Pin 3 | BK | BU | BU | GN | GY |
| Pin 4 | | BK | BK | WH | YE |
| Pin 5 | | | GY | BN | GN |
| Pin 6 | | | | GN | PK |
| Pin 7 | | | | YE | BU |
| Pin 8 | | | | GY | RD |
| Pin 9 | | | | PK | BK |
| Pin 10 | | | | BU | VT |
| Pin 11 | | | | | GY/RD |
| Pin 12 | | | | | RD/BK |
| Pin 13 | | | | | WH/GN |
| Pin 14 | | | | | BN/BK |
| Pin 15 | | | | | WH/YE |
| Pin 16 | | | | | YE/BK |

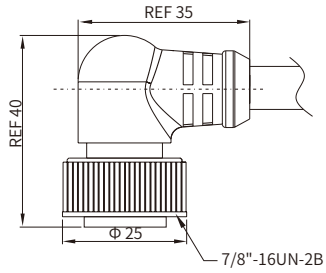
# Mini-change(7/8")

## Mini-change(7/8") Angled Connector, Molded Cable

Male




Female




## Specifications

| Contacts | 3 | 4 | 5 | 16 |
|---|---|---|---|---|
| Certification | CYJV/7.E321413 | | | |
| Pin layout(Male) | | | | |
| Pin layout(Female) | | | | |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | | | |
| Connector insert | TPU | | | |
| Connector contacts | Brass with gold plated | | | |
| Connector overmold | TPU | | | |
| Coupling nut/screw | Aluminium anodized black | | | |
| Seal/O-ring(of Female) | FKM | | | |
| Insulation resistance | ⩾100MΩ | | | |
| Contact resistance | ⩽5mΩ | | | |
| Shielding | Unavailable | | | |
| IP rating | IP67, IP68 in locked condition | | | |
| Mating endurance | >500 cycles | | | |
| Rated current | 15A | | 8A | 4A |
| Rated voltage | 600V AC / DC | | | 250V |
| Wire gauge | 1.5mm² (16~14AWG) | | 1.5~1.0mm² (16~14AWG) | 0.25mm²(AWG24) |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 3 | 1m | MINI-C03MRA-M-10CB100 | MINI-C03MRA-M-10RB100 | MINI-C03FRA-M-10CB100 | MINI-C03FRA-M-10RB100 |
| | 3m | MINI-C03MRA-M-30CB100 | MINI-C03MRA-M-30RB100 | MINI-C03FRA-M-30CB100 | MINI-C03FRA-M-30RB100 |
| | 5m | MINI-C03MRA-M-50CB100 | MINI-C03MRA-M-50RB100 | MINI-C03FRA-M-50CB100 | MINI-C03FRA-M-50RB100 |
| 4 | 1m | MINI-C04MRA-M-10CB100 | MINI-C04MRA-M-10RB100 | MINI-C04FRA-M-10CB100 | MINI-C04FRA-M-10RB100 |
| | 3m | MINI-C04MRA-M-30CB100 | MINI-C04MRA-M-30RB100 | MINI-C04FRA-M-30CB100 | MINI-C04FRA-M-30RB100 |
| | 5m | MINI-C04MRA-M-50CB100 | MINI-C04MRA-M-50RB100 | MINI-C04FRA-M-50CB100 | MINI-C04FRA-M-50RB100 |
| 5 | 1m | MINI-C05MRA-M-10CB50 | MINI-C05MRA-M-10RB50 | MINI-C05FRA-M-10CB50 | MINI-C05FRA-M-10RB50 |
| | 3m | MINI-C05MRA-M-30CB50 | MINI-C05MRA-M-30RB50 | MINI-C05FRA-M-30CB50 | MINI-C05FRA-M-30RB50 |
| | 5m | MINI-C05MRA-M-50CB50 | MINI-C05MRA-M-50RB50 | MINI-C05FRA-M-50CB50 | MINI-C05FRA-M-50RB50 |
| 16 | 1m | MINI-C16MRA-M-10CB25 | MINI-C16MRA-M-10RB25 | MINI-C16FRA-M-10CB25 | MINI-C16FRA-M-10RB25 |
| | 3m | MINI-C16MRA-M-30CB25 | MINI-C16MRA-M-30RB25 | MINI-C16FRA-M-30CB25 | MINI-C16FRA-M-30RB25 |
| | 5m | MINI-C16MRA-M-50CB25 | MINI-C16MRA-M-50RB25 | MINI-C16FRA-M-50CB25 | MINI-C16FRA-M-50RB25 |

## Default wire colors

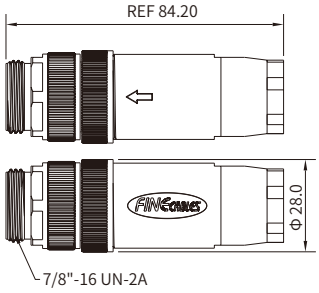
| Pin No. | | | | |
|---|---|---|---|---|
| Pin 1 | BN | BN | BN | WH |
| Pin 2 | BU | WH | WH | BN |
| Pin 3 | BK | BU | BU | GY |
| Pin 4 | | BK | BK | YE |
| Pin 5 | | | GY | GN |
| Pin 6 | | | | PK |
| Pin 7 | | | | BU |
| Pin 8 | | | | RD |
| Pin 9 | | | | BK |
| Pin 10 | | | | VT |
| Pin 11 | | | | GY/RD |
| Pin 12 | | | | RD/BK |
| Pin 13 | | | | WH/GN |
| Pin 14 | | | | BN/BK |
| Pin 15 | | | | WH/YE |
| Pin 16 | | | | YE/BK |

# Mini-change(7/8")

## Mini-change(7/8") Straight Connector, Field Wirable Assembly, Screw joint

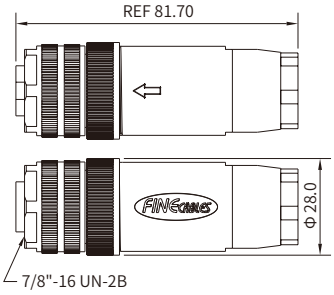
Male

RoHS




Female

RoHS



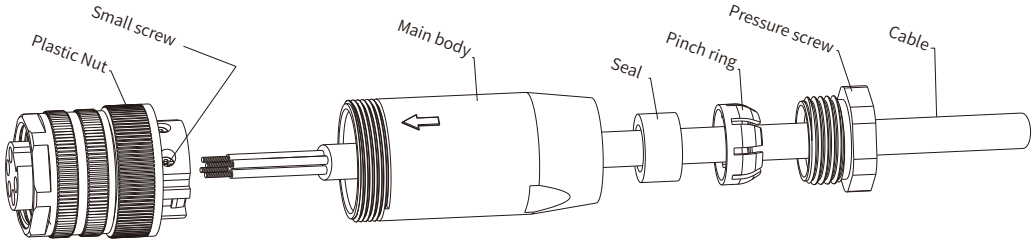

## Specifications

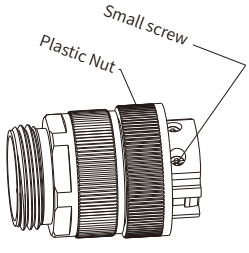
| Contacts | 3 | 4 | 5 |
|---|---|---|---|
| Certification | cULus LISTED CYJV/7.E321413 | | |
| Pin layout(Male) | | | |
| Pin layout(Female) | | | |
| Ambient temperature | -40°C ~ +90°C | | |
| Connector insert | TPU | | |
| Connector contacts | Brass with gold plated | | |
| Coupling screw | Aluminium anodized black | | |
| Connector body | PA+GF | | |
| Seal/O-ring(of Female) | FKM | | |
| Insulation resistance | ⩾100MΩ | | |
| Contact resistance | ⩽5mΩ | | |
| Shielding | Unavailable | | |
| Suitable cable Dia | A: 6.0~8.0mm; B: 8.0~10.0mm; C: 10~12mm | | |
| IP rating | IP67, IP68 in locked condition | | |
| Mating endurance | >500 cycles | | |
| Rated current | 15A | | 8A |
| Rated voltage | 600V AC / DC | | |
| Wire gauge | 1.5mm² (16~14AWG) | | |

## Part Number

| Pins | Male | | | Female | | |
|---|---|---|---|---|---|---|
| | A | B | C | A | B | C |
| 3 | MINI-C03MST-SJF-A | MINI-C03MST-SJF-B | MINI-C03MST-SJF-C | MINI-C03FST-SJF-A | MINI-C03FST-SJF-B | MINI-C03FST-SJF-C |
| 4 | MINI-C04MST-SJF-A | MINI-C04MST-SJF-B | MINI-C04MST-SJF-C | MINI-C04FST-SJF-A | MINI-C04FST-SJF-B | MINI-C04FST-SJF-C |
| 5 | MINI-C05MST-SJF-A | MINI-C05MST-SJF-B | MINI-C05MST-SJF-C | MINI-C05FST-SJF-A | MINI-C05FST-SJF-B | MINI-C05FST-SJF-C |

## Assembly Instruction

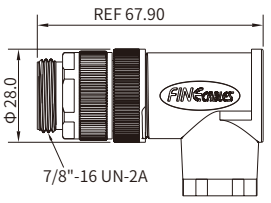


# Mini-change(7/8")

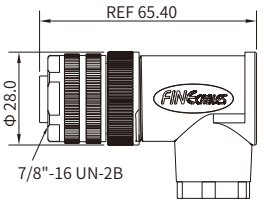
## Mini-change(7/8") Angled Connector, Field Wirable Assembly, Screw joint

Male




RoHS

Female




RoHS

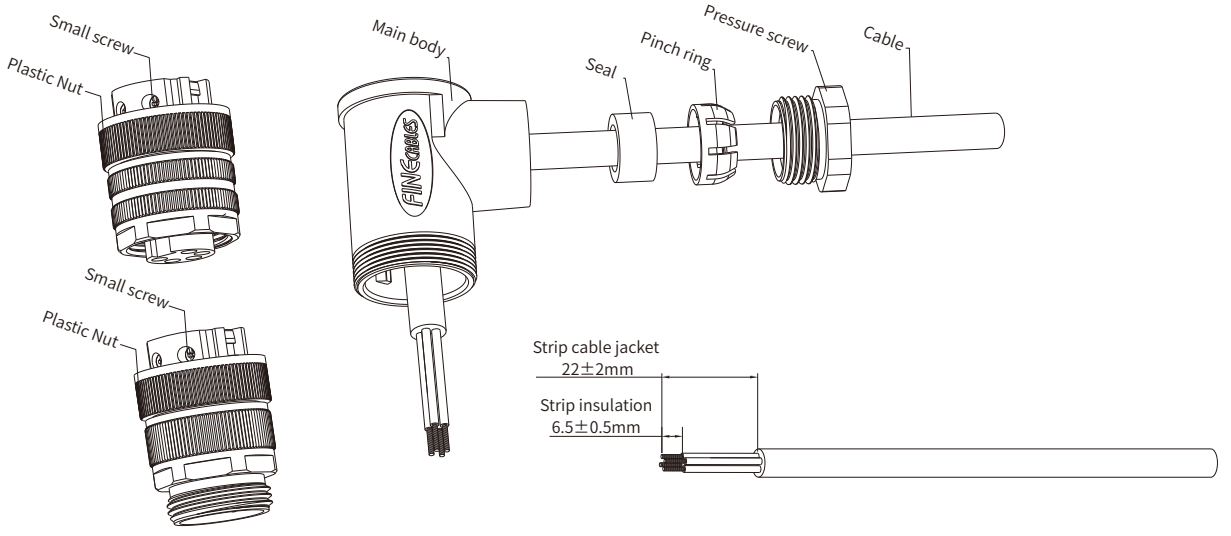
## Specifications

| Contacts | 3 | 4 | 5 |
|---|---|---|---|
| Certification | cULus LISTED CYJV/7.E321413 | | |
| Pin layout(Male) | | | |
| Pin layout(Female) | | | |
| Ambient temperature | -40°C ~ +90°C | | |
| Connector insert | TPU | | |
| Connector contacts | Brass with gold plated | | |
| Coupling screw | Aluminium anodized black | | |
| Connector body | PA+GF | | |
| Seal/O-ring(of Female) | FKM | | |
| Insulation resistance | ⩾100MΩ | | |
| Contact resistance | ⩽5mΩ | | |
| Shielding | Unavailable | | |
| Suitable cable Dia | A: 6.0~8.0mm; B: 8.0~10.0mm; C: 10~12mm | | |
| IP rating | IP67, IP68 in locked condition | | |
| Mating endurance | >500 cycles | | |
| Rated current | 13A | | 8A |
| Rated voltage | 600V AC / DC | | |
| Wire gauge | 1.5~2.0mm² (16~14AWG) | | |

## Part Number

| Pins | Male | | | Female | | |
|---|---|---|---|---|---|---|
| | A | B | C | A | B | C |
| 3 | MINI-C03MRA-SJF-A | MINI-C03MRA-SJF-B | MINI-C03MRA-SJF-C | MINI-C03FRA-SJF-A | MINI-C03FRA-SJF-B | MINI-C03FRA-SJF-C |
| 4 | MINI-C04MRA-SJF-A | MINI-C04MRA-SJF-B | MINI-C04MRA-SJF-C | MINI-C04FRA-SJF-A | MINI-C04FRA-SJF-B | MINI-C04FRA-SJF-C |
| 5 | MINI-C05MRA-SJF-A | MINI-C05MRA-SJF-B | MINI-C05MRA-SJF-C | MINI-C05FRA-SJF-A | MINI-C05FRA-SJF-B | MINI-C05FRA-SJF-C |

## Assembly Instruction

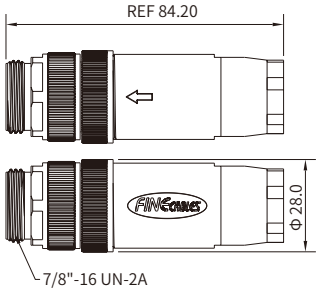


# Mini-change(7/8")

## Mini-change(7/8") Straight Connector, Field Assembly, Screw Termination with Nut

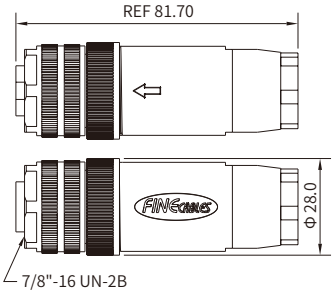
Male

RoHS




Female

RoHS



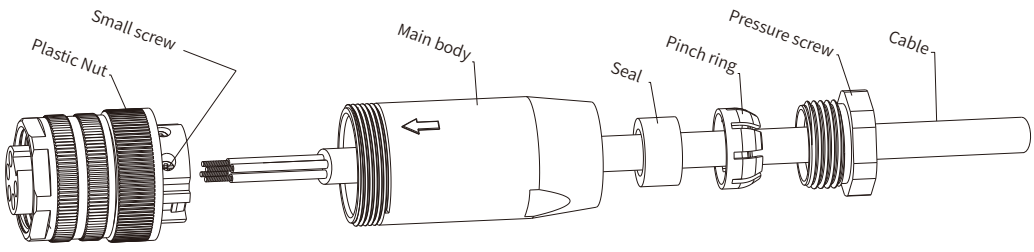

## Specifications

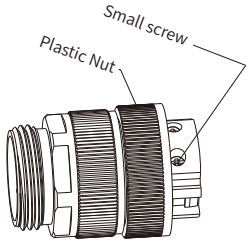
| Contacts | 3 | 4 | 5 |
|---|---|---|---|
| Pin layout(Male) | | | |
| Pin layout(Female) | | | |
| Ambient temperature | -40°C ~ +90°C | | |
| Connector insert | TPU | | |
| Connector contacts | Brass with gold plated | | |
| Coupling screw | Zinc alloy with nickel plated | | |
| Connector body | PA+GF | | |
| Seal/O-ring(of Female) | FKM | | |
| Insulation resistance | ⩾100MΩ | | |
| Contact resistance | ⩽5mΩ | | |
| Shielding | Unavailable | | |
| Suitable cable Dia | A: 6.0~8.0mm; B: 8.0~10.0mm; C: 10~12mm | | |
| IP rating | IP67, IP68 in locked condition | | |
| Mating endurance | >500 cycles | | |
| Rated current | 13A | | 8A |
| Rated voltage | 600V AC / DC | | |
| Wire gauge | 1.5~2.0mm² (16~14AWG) | | |

## Part Number

| Pins | Male | | | Female | | |
|---|---|---|---|---|---|---|
| | A | B | C | A | B | C |
| 3 | MINI-C03MST-SDF-A | MINI-C03MST-SDF-B | MINI-C03MST-SDF-C | MINI-C03FST-SDF-A | MINI-C03FST-SDF-B | MINI-C03FST-SDF-C |
| 4 | MINI-C04MST-SDF-A | MINI-C04MST-SDF-B | MINI-C04MST-SDF-C | MINI-C04FST-SDF-A | MINI-C04FST-SDF-B | MINI-C04FST-SDF-C |
| 5 | MINI-C05MST-SDF-A | MINI-C05MST-SDF-B | MINI-C05MST-SDF-C | MINI-C05FST-SDF-A | MINI-C05FST-SDF-B | MINI-C05FST-SDF-C |

## Assembly Instruction

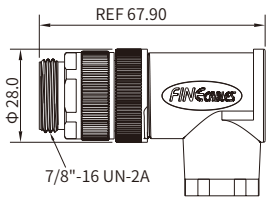


# Mini-change(7/8")

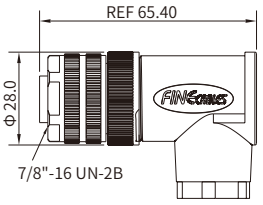
## Mini-change(7/8") Angled Connector, Field Assembly, Screw Termination

Male




RoHS

Female




RoHS

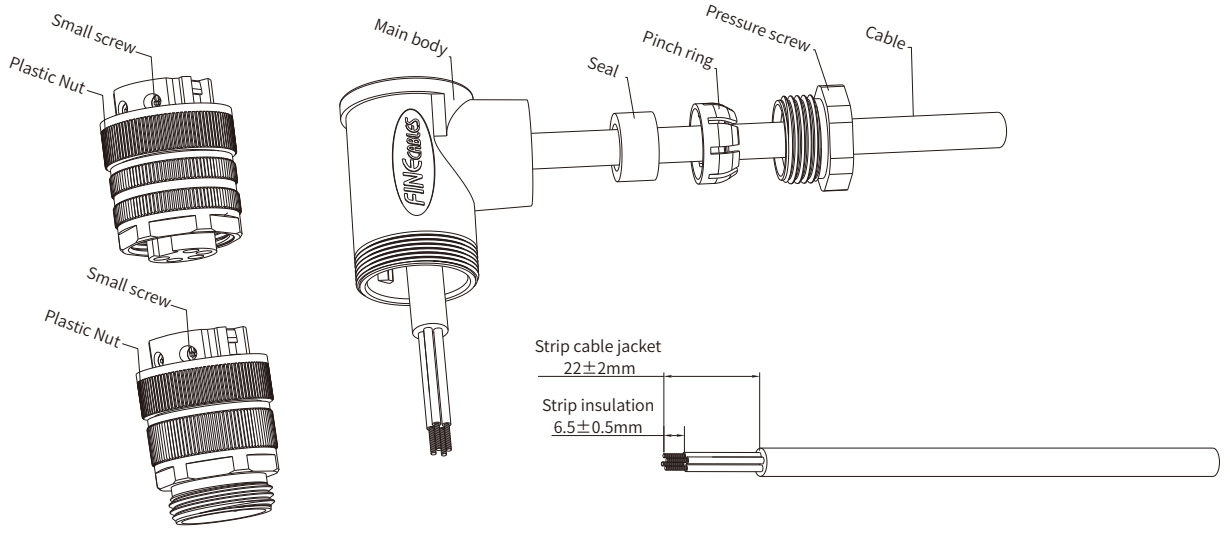
## Specifications

| Contacts | 3 | 4 | 5 |
|---|---|---|---|
| Pin layout(Male) | | | |
| Pin layout(Female) | | | |
| Ambient temperature | -40°C ~ +90°C | | |
| Connector insert | TPU | | |
| Connector contacts | Brass with gold plated | | |
| Coupling screw | Aluminium anodized black | | |
| Connector body | PA+GF | | |
| Seal/O-ring(of Female) | FKM | | |
| Insulation resistance | ⩾100MΩ | | |
| Contact resistance | ⩽5mΩ | | |
| Shielding | Unavailable | | |
| Suitable cable Dia | A: 6.0~8.0mm; B: 8.0~10.0mm; C: 10~12mm | | |
| IP rating | IP67, IP68 in locked condition | | |
| Mating endurance | >500 cycles | | |
| Rated current | 13A | | 8A |
| Rated voltage | 600V AC / DC | | |
| Wire gauge | 1.5~2.0mm² (16~14AWG) | | |

## Part Number

| Pins | Male | | | Female | | |
|---|---|---|---|---|---|---|
| | A | B | C | A | B | C |
| 3 | MINI-C03MRA-SDF-A | MINI-C03MRA-SDF-B | MINI-C03MRA-SDF-C | MINI-C03FRA-SDF-A | MINI-C03FRA-SDF-B | MINI-C03FRA-SDF-C |
| 4 | MINI-C04MRA-SDF-A | MINI-C04MRA-SDF-B | MINI-C04MRA-SDF-C | MINI-C04FRA-SDF-A | MINI-C04FRA-SDF-B | MINI-C04FRA-SDF-C |
| 5 | MINI-C05MRA-SDF-A | MINI-C05MRA-SDF-B | MINI-C05MRA-SDF-C | MINI-C05FRA-SDF-A | MINI-C05FRA-SDF-B | MINI-C05FRA-SDF-C |

## Assembly Instruction

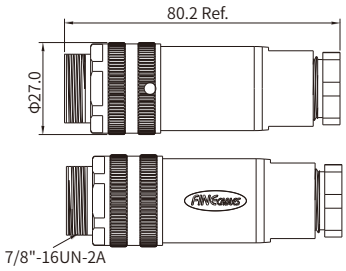


# Mini-change(7/8")

## Mini-change(7/8") Straight Connector, Field Assembly, Screw Termination with pilot hole

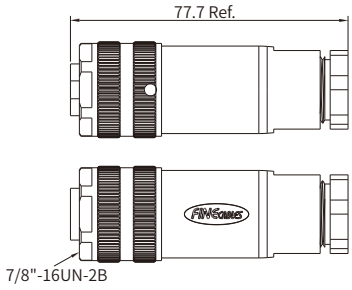
Male

RoHS




Female

RoHS



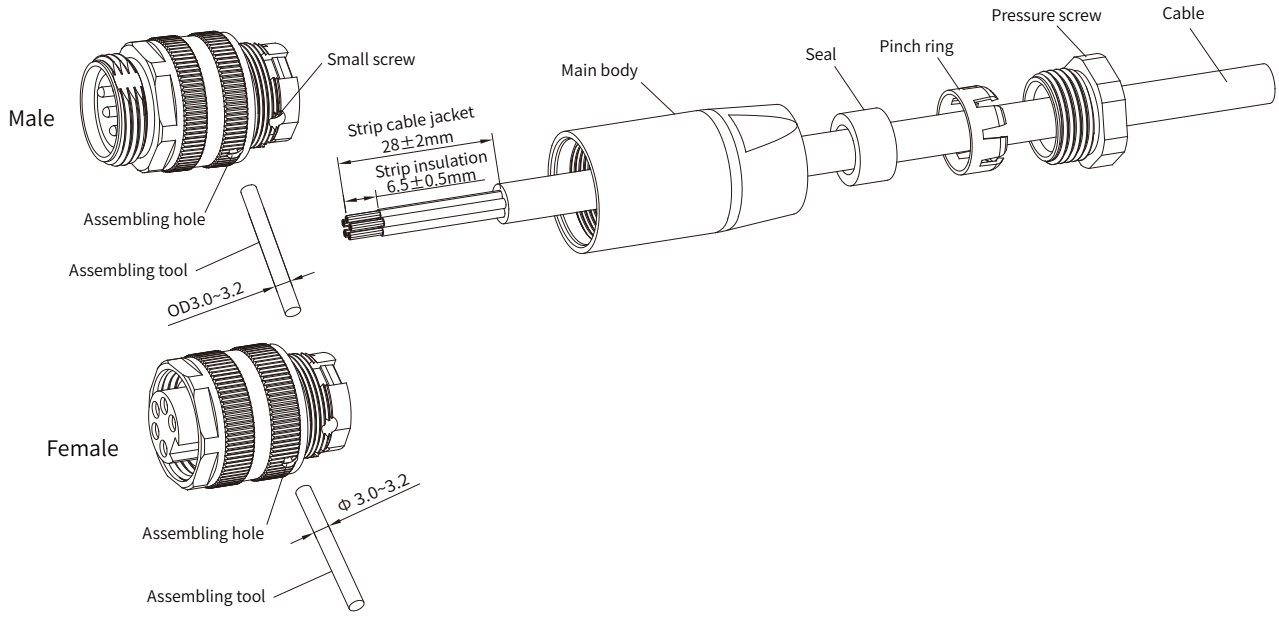

## Specifications

| Contacts | 3 | 4 | 5 |
|---|---|---|---|
| Pin layout(Male) | | | |
| Pin layout(Female) | | | |
| Ambient temperature | -40°C ~ +90°C | | |
| Connector insert | TPU | | |
| Connector contacts | Brass with gold plated | | |
| Coupling screw | Zinc alloy with nickel plated | | |
| Connector body | PA+GF | | |
| Seal/O-ring(of Female) | FKM | | |
| Insulation resistance | ⩾100MΩ | | |
| Contact resistance | ⩽5mΩ | | |
| Shielding | Unavailable | | |
| Suitable cable Dia | A: 6.0~8.0mm; B: 8.0~10.0mm | | |
| IP rating | IP67, IP68 in locked condition | | |
| Mating endurance | >500 cycles | | |
| Rated current | 13A | | 8A |
| Rated voltage | 600V AC / DC | | |
| Wire gauge | 1.5~2.0mm² (16~14AWG) | | |

## Part Number

| Pins | Male | | Female | |
|---|---|---|---|---|
| | A | B | A | B |
| 3 | MINI-C03MST-SSF-A | MINI-C03MST-SSF-B | MINI-C03FST-SSF-A | MINI-C03FST-SSF-B |
| 4 | MINI-C04MST-SSF-A | MINI-C04MST-SSF-B | MINI-C04FST-SSF-A | MINI-C04FST-SSF-B |
| 5 | MINI-C05MST-SSF-A | MINI-C05MST-SSF-B | MINI-C05FST-SSF-A | MINI-C05FST-SSF-B |

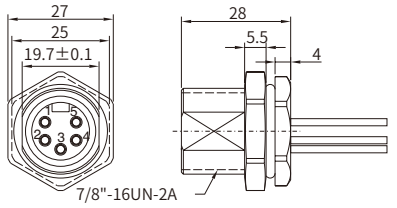
## Assembly Instruction



# Mini-change(7/8")

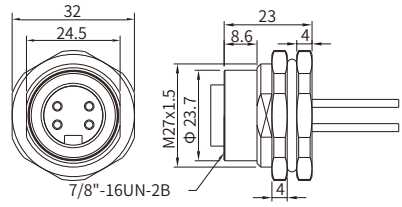
## Mini-chang(7/8") Straight Connector, Panel Mount, Crimp, Front fastened

Male Crimp




CE RoHS

Female Crimp




CE RoHS

## Specifications

| Contacts | 3 | 4 | 5 | 16 |
|---|---|---|---|---|
| Certification | cULus LISTED CYJV/7.E321413 | | | |
| Pin layout(Male) | | | | |
| Pin layout(Female) | | | | |
| Ambient temperature | -15°C~+85°C (flexible installation), -30°C~+85°C (fixed installation) | | | |
| Customized temperature | -25°C ~ +85°C (flexible installation), -40°C ~ +85°C (fixed installation) | | | |
| Connector insert | TPU | | | |
| Connector contacts | Brass with gold plated | | | |
| Coupling nut/screw | Brass with nickel plating | | | |
| Seal/O-ring(of Female) | Epoxy reain/FKM | | | |
| Insulation resistance | ⩾100MΩ | | | |
| Contact resistance | ⩽5mΩ | | | |
| Earth tag/pin | Unavailable | | | |
| IP rating | IP67, IP68 in locked condition | | | |
| Mating endurance | >500 cycles | | | |
| Rated current | 15A | | 8A | 4A |
| Rated voltage | 300V AC / DC | | | 250V |
| Wire gauge | 1.5mm² (16~14AWG) | | 1.5~1.0mm² (16~14AWG) | 0.25mm² (AWG24) |
| Panel Cut-out | Refer to page 470 | | | |

## Part Number

| Pins | Wire length | Male | Female |
|---|---|---|---|
| 3 | 0.3m | MINI-C03MST-PCF-03W193 | MINI-C03FST-PCF-03W193 |
| 4 | 0.3m | MINI-C04MST-PCF-03W193 | MINI-C04FST-PCF-03W193 |
| 5 | 0.3m | MINI-C05MST-PCF-03W50 | MINI-C05FST-PCF-03W50 |
| 16 | 0.3m | MINI-C16MST-PCF-03W25 | MINI-C16FST-PCF-03W25 |

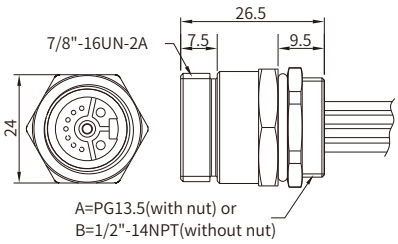
## Default wire colors

| Pin No. | | | | |
|---|---|---|---|---|
| Pin 1 | BN | BN | BN | WH |
| Pin 2 | BU | WH | WH | BN |
| Pin 3 | BK | BU | BU | GY |
| Pin 4 | | BK | BK | YE |
| Pin 5 | | | GY | GN |
| Pin 6 | | | | PK |
| Pin 7 | | | | BU |
| Pin 8 | | | | RD |
| Pin 9 | | | | BK |
| Pin 10 | | | | VT |
| Pin 11 | | | | GY/RD |
| Pin 12 | | | | RD/BK |
| Pin 13 | | | | WH/GN |
| Pin 14 | | | | BN/BK |
| Pin 15 | | | | WH/YE |
| Pin 16 | | | | YE/BK |

# Mini-change(7/8")

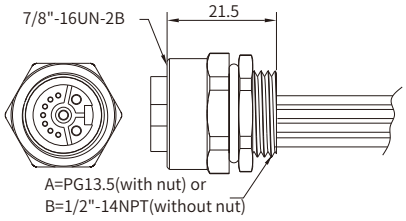
## Mini-change(7/8") Straight Connector, Panel Mount, Crimp, Rear fastened

Male Crimp




CE RoHS IP68

Female Crimp




CE RoHS IP68

## Specifications

| Contacts | 3 | 4 | 5 | 3+7 | 16 |
|---|---|---|---|---|---|
| Certification | cULus LISTED CYJV/7.E321413 | | | | |
| Pin layout(Male) | | | | | |
| Pin layout(Female) | | | | | |
| Ambient temperature | -15°C~+85°C (flexible installation), -30°C~+85°C (fixed installation) | | | | |
| Customized temperature | -25°C ~ +85°C (flexible installation), -40°C ~ +85°C (fixed installation) | | | | |
| Connector insert | TPU | | | | |
| Connector contacts | Brass with gold plated | | | | |
| Coupling nut/screw | Brass with nickel plating | | | | |
| Seal/O-ring(of Female) | Epoxy reain/FKM | | | | |
| Insulation resistance | ⩾100MΩ | | | | |
| Contact resistance | ⩽5mΩ | | | | |
| Earth tag/pin | Unavailable | | | | |
| IP rating | IP67, IP68 in locked condition | | | | |
| Mating endurance | >500 cycles | | | | |
| Rated current | 15A | | 8A | | 4A |
| Rated voltage | 300V AC / DC | | | | 250V |
| Wire gauge | 1.5mm² (16~14AWG) | | 1.5~1.0mm² (16~14AWG) | | 0.25mm² (AWG24) |
| Panel Cut-out | Refer to page 470 | | | | |

## Part Number

| Pins | Wire length | Male | | Female | |
|---|---|---|---|---|---|
| | | A=PG13.5 | B=1/2"-14NPT | A=PG13.5 | B=1/2"-14NPT |
| 3 | 0.3m | MINI-C03MST-PCR-03W193-A | MINI-C03MST-PCR-03W1930-B | MINI-C03FST-PCR-03W193-A | MINI-C03FST-PCR-03W193-B |
| 4 | 0.3m | MINI-C04MST-PCR-03W193-A | MINI-C04MST-PCR-03W193-B | MINI-C04FST-PCR-03W193-A | MINI-C04FST-PCR-03W193-B |
| 5 | 0.3m | MINI-C05MST-PCR-03W50-A | MINI-C05MST-PCR-03W50-B | MINI-C05FST-PCR-03W50-A | MINI-C05FST-PCR-03W50-B |
| 3+7 | 0.3m | MINI-C3+7MST-PCR-03W25-A | MINI-C3+7MST-PCR-03W25-B | MINI-C3+7FST-PCR-03W25-A | MINI-C3+7FST-PCR-03W25-B |
| 16 | 0.3m | MINI-C16MST-PCR-03W25-A | MINI-C16MST-PCR-03W25-B | MINI-C16FST-PCR-03W25-A | MINI-C16FST-PCR-03W25-B |

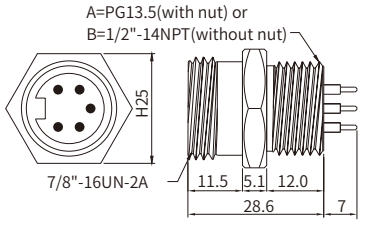
## Default wire colors

| Pin No. | | | | | |
|---|---|---|---|---|---|
| Pin 1 | BN | BN | BN | BN | WH |
| Pin 2 | BU | WH | WH | BU | BN |
| Pin 3 | BK | BU | BU | GN | GY |
| Pin 4 | | BK | BK | WH | YE |
| Pin 5 | | | GY | BN | GN |
| Pin 6 | | | | GN | PK |
| Pin 7 | | | | YE | BU |
| Pin 8 | | | | GY | RD |
| Pin 9 | | | | PK | BK |
| Pin 10 | | | | BU | VT |
| Pin 11 | | | | | GY/RD |
| Pin 12 | | | | | RD/BK |
| Pin 13 | | | | | WH/GN |
| Pin 14 | | | | | BN/BK |
| Pin 15 | | | | | WH/YE |
| Pin 16 | | | | | YE/BK |

# Mini-change(7/8")

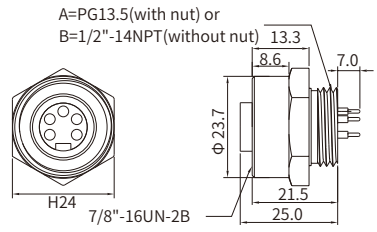
## Mini-change(7/8") Straight Connector, Panel Mount, PCB Type, Rear fastened

Male




RoHS

Female




RoHS

## Specifications

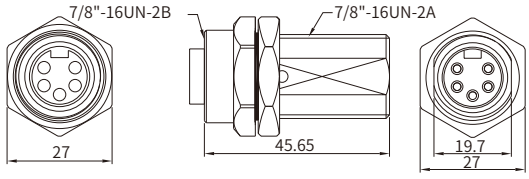
| Contacts | 3 | 4 | 5 | 16 |
|---|---|---|---|---|
| Pin layout(Male) | | | | |
| Pin layout(Female) | | | | |
| Ambient temperature | -40°C ~ +90°C | | | |
| Connector insert | TPU | | | |
| Connector contacts | Brass with gold plated | | | |
| Coupling nut/screw | Brass with nickel plating | | | |
| Seal/O-ring(of Female) | Epoxy reain/FKM | | | |
| Insulation resistance | ⩾100MΩ | | | |
| Contact resistance | ⩽5mΩ | | | |
| Earth tag/pin | Unavailable | | | |
| IP rating | IP67, IP68 in locked condition | | | |
| Mating endurance | >500 cycles | | | |
| Rated current | 13A | | 8A | 4A |
| Rated voltage | 300V AC / DC | | | 250V |
| Panel Cut-out | Refer to page 470 | | | |
| PCB layout | Refer to page 470 | | | |

## Part Number

| Pins | Male | | Female | |
|---|---|---|---|---|
| | A=PG13.5 | B=1/2"-14NPT | A=PG13.5 | B=1/2"-14NPT |
| 3 | MINI-C03MST-PBR-A | MINI-C03MST-PBR-B | MINI-C03FST-PBR-A | MINI-C03FST-PBR-B |
| 4 | MINI-C04MST-PBR-A | MINI-C04MST-PBR-B | MINI-C04FST-PBR-A | MINI-C04FST-PBR-B |
| 5 | MINI-C05MST-PBR-A | MINI-C05MST-PBR-B | MINI-C05FST-PBR-A | MINI-C05FST-PBR-B |
| 16 | MINI-C16MST-PBR-A | MINI-C16MST-PBR-B | MINI-C16FST-PBR-A | MINI-C16FST-PBR-B |

# Mini-change(7/8")

## Mini-change(7/8") Straight Connector, Male to Female Panel Mount




CE RoHS

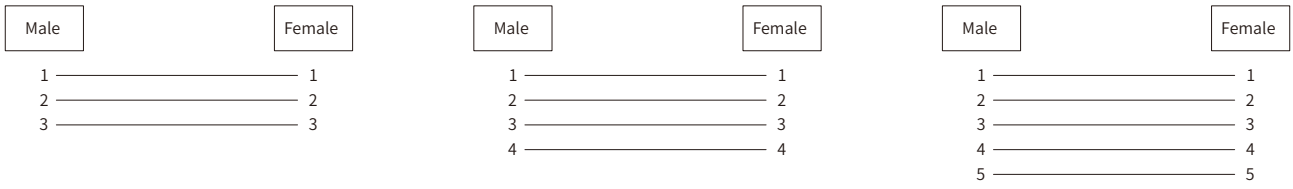
## Specifications

| Contacts | 3 | 4 | 5 |
|---|---|---|---|
| Pin layout(Male) | | | |
| Pin layout(Female) | | | |
| Ambient temperature | -40°C ~ +90°C | | |
| Connector insert | TPU | | |
| Connector contacts | Brass with gold plated | | |
| Coupling nut/screw | Brass with nickel plating | | |
| O-ring | Epoxy reain/FKM | | |
| Insulation resistance | ⩾100MΩ | | |
| Contact resistance | ⩽5mΩ | | |
| Earth tag/pin | Unavailable | | |
| IP rating | IP67, IP68 in locked condition | | |
| Mating endurance | >500 cycles | | |
| Rated current | 13A | | 8A |
| Rated voltage | 300V AC / DC | | |
| Panel Cut-out | Refer to page 470 | | |

## Part Number

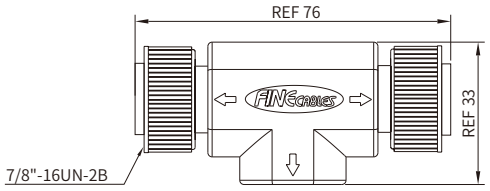
| Pins | Male-Female |
|---|---|
| 3 | MT-066(MINI-C03FMST-PFCF) |
| 4 | MT-065(MINI-C04FMST-PFCF) |
| 5 | MT-011(MINI-C05FMST-PFCF) |

## Circuit diagram



# Mini-change(7/8")

## Mini-change(7/8") Straight Connector, I-Adapter, Female-Female




**RoHS**

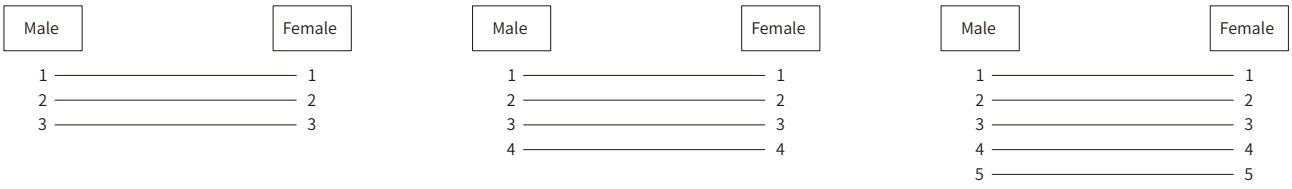
## ■ Specifications

| Contacts | 3 | 4 | 5 |
|---|---|---|---|
| Pin layout(Male) | | | |
| Pin layout(Female) | | | |
| Ambient temperature | -25°C ~ +90°C | | |
| Connector insert | TPU | | |
| Connector contacts | Brass with gold plated | | |
| Coupling nut/screw | Aluminium anodized black | | |
| Connector overmold | TPU | | |
| Seal/O-ring | FKM | | |
| Insulation resistance | ⩾100MΩ | | |
| Contact resistance | ⩽5mΩ | | |
| Shielding | Unavailable | | |
| IP rating | IP67, IP68 in locked condition | | |
| Mating endurance | >500 cycles | | |
| Rated current | 13A | | 8A |
| Rated voltage | 300V AC / DC | | |

## ■ Part Number

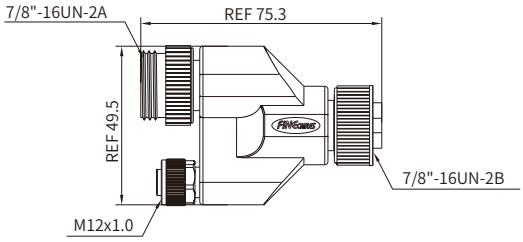
| Pins | Female-Female |
|---|---|
| 3 | MT-067(MINI-C03FFNI-M) |
| 4 | MT-068 (MINI-C04FFNI-M) |
| 5 | MT-069 (MINI-C05FFNI-M) |

## ■ Circuit diagram



# Mini-change(7/8")

## Mini-change(7/8") Y-Splitter, Female-Male with M12 Female Connector




RoHS

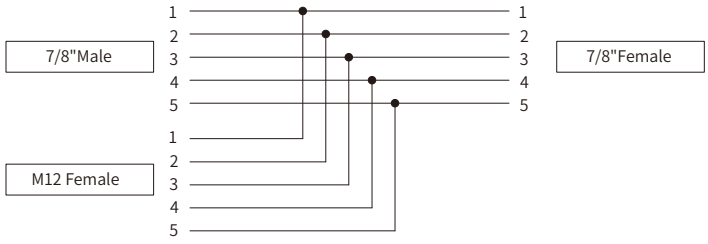
## Specifications

| Contacts | 7/8" Male (5Pin) | 7/8" Female (5Pin) | M12 Female (5Pin) |
|---|---|---|---|
| Pin layout | | | |
| Ambient temperature | -25°C ~ +90°C | | |
| Connector insert | TPU/PA+GF | | |
| Connector contacts | Brass with gold plated | | |
| Coupling nut/screw | Aluminium anodized black(7/8") / Zinc Alloy with nickel plated(M12) | | |
| Connector overmold | TPU | | |
| Seal/O-ring | FKM | | |
| Insulation resistance | ⩾100MΩ | | |
| Contact resistance | ⩽5mΩ | | |
| Shielding | Unavailable | | |
| IP rating | IP67, IP68 in locked condition | | |
| Mating endurance | >500 cycles | | |
| Rated current | 4A | | |
| Rated voltage | 60V AC / DC | | |

## Part Number

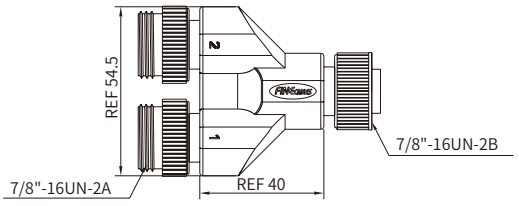
| Pins | Female-Male-M12 Female |
|---|---|
| 5 | MINI-C05FFM12Y-M |

## Circuit diagram



# Mini-change(7/8")

## Mini-change(7/8") Y-Splitter, Female-2* Male




**RoHS**

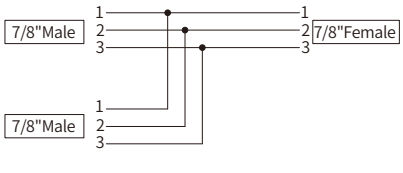
## ■ Specifications

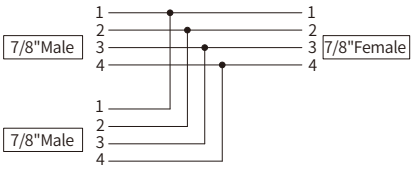
| Contacts | 3 | 4 | 5 |
|---|---|---|---|
| Pin layout(Male) | | | |
| Pin layout(Female) | | | |
| Ambient temperature | -25°C ~ +90°C | | |
| Connector insert | TPU | | |
| Connector contacts | Brass with gold plated | | |
| Coupling nut/screw | Aluminium anodized black | | |
| Connector overmold | TPU | | |
| Seal/O-ring | FKM | | |
| Insulation resistance | ⩾100MΩ | | |
| Contact resistance | ⩽5mΩ | | |
| Shielding | Unavailable | | |
| IP rating | IP67, IP68 in locked condition | | |
| Mating endurance | >500 cycles | | |
| Rated current | 13A | | 8A |
| Rated voltage | 300V AC / DC | | |

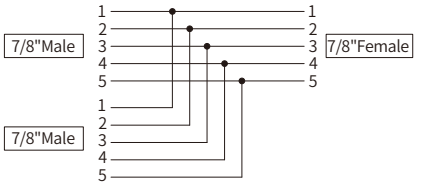
## ■ Part Number

| Pins | Female-2* Male |
|---|---|
| 3 | MT-071(MINI-C03MFMY-M) |
| 4 | MT-072(MINI-C04MFMY-M) |
| 5 | MT-073(MINI-C05MFMY -M) |

## ■ Circuit diagram

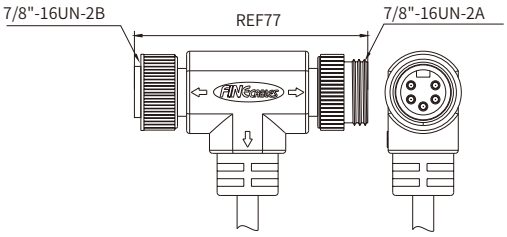


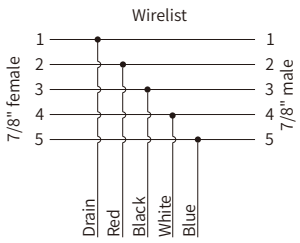



# Mini-change(7/8")

## Mini-change(7/8") T-Splitter, Male-Female, Molded Cable




RoHS

## Specifications

| Contacts | 5 |
|---|---|
| Pin layout(Male) | |
| Pin layout(Female) | |
| Ambient temperature | -25°C ~ +90°C |
| Connector insert | TPU |
| Connector contacts | Brass with gold plated |
| Coupling nut/screw | Aluminium anodized black(7/8") |
| Connector overmold | TPU |
| Seal/O-ring | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Shielding | Unavailable |
| IP rating | IP67, IP68 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 8A |
| Rated voltage | 300V AC / DC |
| Wire gauge | 0.5mm$^2$ (AWG20) |

## Part Number

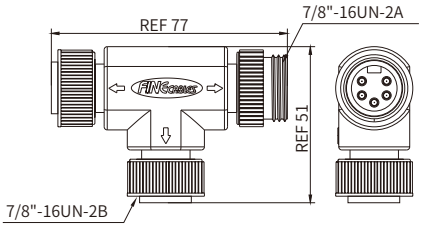
| Pins | Cable length | Male-Female | |
|---|---|---|---|
| | | PVC | PUR |
| 5 | 1m | MT-014(MINI-C05MFCT-M-10CB50) | MT-014(MINI-C05MFCT-M-10RB50) |
| | 3m | MT-014(MINI-C05MFCT-M-30CB50) | MT-014(MINI-C05MFCT-M-30RB50) |
| | 5m | MT-014(MINI-C05MFCT-M-50CB50) | MT-014(MINI-C05MFCT-M-50RB50) |

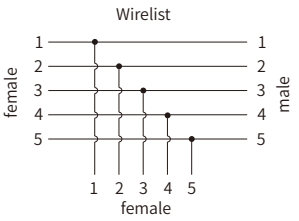
## Default wire colors

| Pin No. | |
|---|---|
| Pin 1 | BN |
| Pin 2 | WH |
| Pin 3 | BU |
| Pin 4 | BK |
| Pin 5 | GY |

# Mini-change(7/8")

## Mini-change(7/8") T-Splitter, Female-Male-Female




**RoHS**

## Specifications

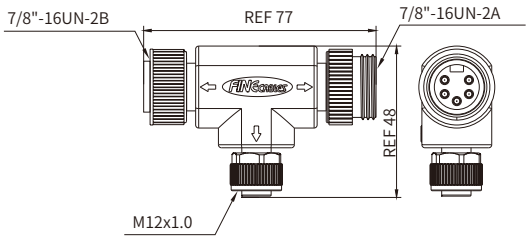
| Contacts | 5 |
|---|---|
| Certification | cULus 2018/7 |
| Pin layout(Male) | |
| Pin layout(Female) | |
| Ambient temperature | -25°C ~ +90°C |
| Connector insert | TPU |
| Connector contacts | Brass with gold plated |
| Coupling nut/screw | Aluminium anodized black |
| Connector overmold | TPU |
| Seal/O-ring | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Shielding | Unavailable |
| IP rating | IP67, IP68 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 4A |
| Rated voltage | 300V AC / DC |
| Wire gauge | 0.5mm$^2$(AWG20) |

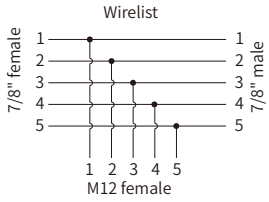
## Part Number

| Pins | Female-Male-Female |
|---|---|
| 5 | MT-012(MINI-C05FMFT-M) |

# Mini-change(7/8")

## Mini-change(7/8") T-Splitter, Male-Female with M12 Female Connector




**RoHS**

## Specifications

| Contacts | 7/8" Male (5Pin) | 7/8" Female (5Pin) | M12 Female (5Pin) |
|---|---|---|---|
| Pin layout | | | |
| Ambient temperature | -25°C ~ +90°C | | |
| Connector insert | TPU | | |
| Connector contacts | Brass with gold plated | | |
| Coupling nut/screw | Aluminium anodized black(7/8") / Zinc Alloy with nickel plated(M12) | | |
| Connector overmold | TPU | | |
| Seal/O-ring | FKM | | |
| Insulation resistance | ≥100MΩ | | |
| Contact resistance | ≤5mΩ | | |
| Shielding | Unavailable | | |
| IP rating | IP67, IP68 in locked condition | | |
| Mating endurance | >500 cycles | | |
| Rated current | 4A | | |
| Rated voltage | 60V AC / DC | | |

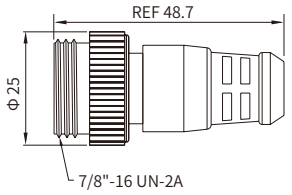
## Part Number

| Pins | Male-Female-M12 Female |
|---|---|
| 5 | MT-013(MINI-C05FFM12T-M) |

# Mini-change(7/8")

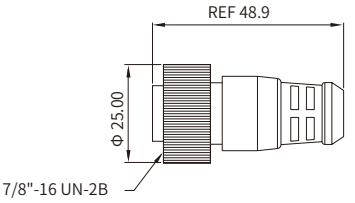
## Mini-change(7/8") Straight Connector, Terminator

Male




RoHS

Female




RoHS

## Specifications

| Contacts | 3 | 4 | 5 | 16 |
|---|---|---|---|---|
| Pin layout(Male) | | | | |
| Pin layout(Female) | | | | |
| Ambient temperature | -25°C ~ +90°C | | | |
| Connector insert | TPU | | | |
| Connector contacts | Brass with gold plated | | | |
| Coupling nut/screw | Aluminium anodized black | | | |
| Connector overmold | TPU | | | |
| Seal/O-ring(of Female) | FKM | | | |
| Insulation resistance | ⩾100MΩ | | | |
| Contact resistance | ⩽5mΩ | | | |
| Shielding | Unavailable | | | |
| IP rating | IP67, IP68 in locked condition | | | |
| Mating endurance | >500 cycles | | | |
| Rated current | 13A | | 8A | 4A |
| Rated voltage | 300V AC / DC | | | 250V |
| Wire gauge | 1.0mm² (AWG18) | | 0.5mm² (AWG20) | 0.25mm² (AWG24) |

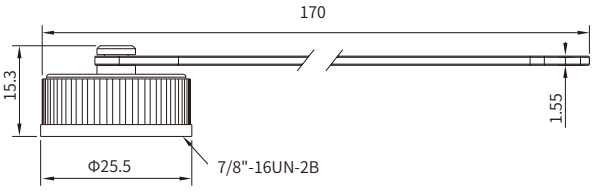
## Part Number

| Pins | Male | Female |
|---|---|---|
| 3 | MINI-C03MST-M | MINI-C03FST-M |
| 4 | MINI-C04MST-M | MINI-C04FST-M |
| 5 | MINI-C05MST-M | MINI-C05FST-M |
| 16 | MINI-C16MST-M | MINI-C16FST-M |

# Mini-change(7/8") Protection Cap

## Mini-change(7/8") Protection Cap for Male Molded Cable Connector

- Connector series: Mini-change(7/8")
- Gender: for Male
- Locking type: Fix screw
- Part No.: PCN7/8"-2



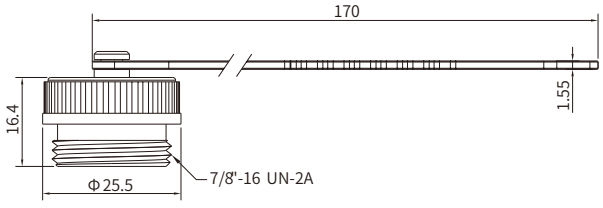

### General information

| | |
|---|---|
| Color: | Black |
| nut/screw: | PA+GF |
| Gasket: | FKM |

| | |
|---|---|
| Loop: | TPU |
| IP rating: | IP68 in locked condition |

## Mini-change(7/8") Protection Cap for Female Molded Cable Connector

- Connector series: Mini-change(7/8")
- Gender: for Female
- Locking type: Fix screw
- Part No.: PCS7/8"-1




### General information

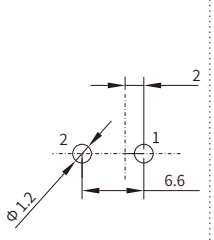
| | |
|---|---|
| Color: | Black |
| nut/screw: | PA+GF |

| | |
|---|---|
| Loop: | TPU |
| IP rating: | IP68 in locked condition |

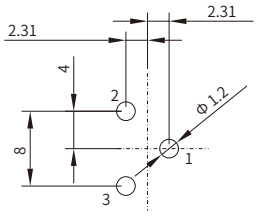
# Mini-change(7/8") PCB Layout & Panel Cut-out

## ■ PCB Layout

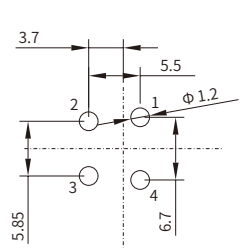
### ■ 7/8" Male Connector



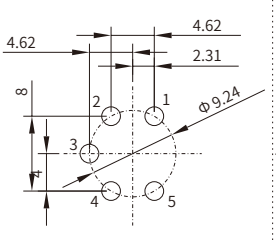

Pin OD:1.0
7/8" 2P



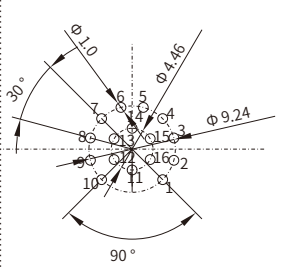

Pin OD:1.0
7/8" 3P




Pin OD:1.0
7/8" 4P



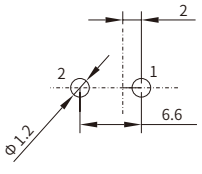

Pin OD:1.0
7/8" 5P



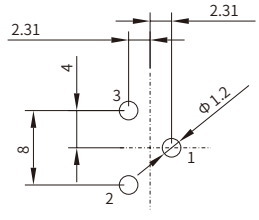

Pin OD:0.8
7/8" 16P

Recommended PCB layout

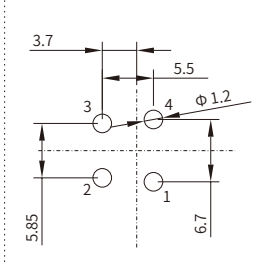
### ■ 7/8" Female Connector



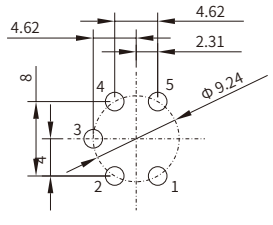

Pin OD:1.0
7/8" 2P



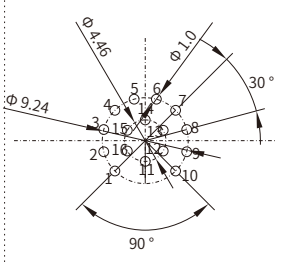

Pin OD:1.0
7/8" 3P




Pin OD:1.0
7/8" 4P




Pin OD:1.0
7/8" 5P

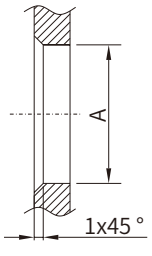



Pin OD:0.8
7/8" 16P

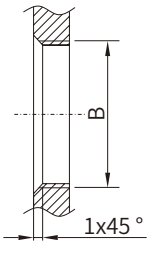
Recommended PCB layout

## ■ Panel Cut-out Dimensions

With bare hole

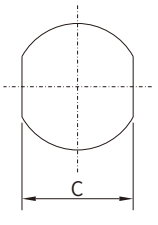



With thread to screw in

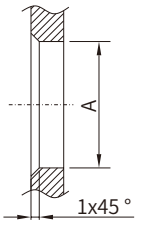



| | A | B |
|---|---|---|
| 7/8"-16UN-2B | 22.2 $^{+0.1}_{-0}$ | 7/8"-16UN-2A |
| PG13.5 | 20.5 $^{+0.1}_{-0}$ | PG13.5 |
| 1/2"-14NPT | \ | 1/2"-14NPT |

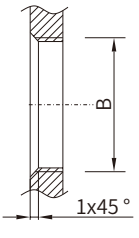
H-cutting




With bare hole




With thread to screw in




| | A | B | C |
|---|---|---|---|
| 7/8"-16UN-2B | 22.2 $^{+0.1}_{-0}$ | 7/8"-16UN-2A | 19.8 $^{+0.1}_{-0}$ |
| M27x1.5 | 27 $^{+0.1}_{-0}$ | M27x1.5 | 24.6 $^{+0.1}_{-0}$ |

# Industrial Circular
## connectors

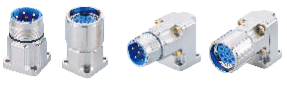
## M23 cables & connectors

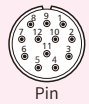
The circular M23 Series is a waterproof connector specifically designed and developed for use in intensive, demanding operational conditions. It ensures operational stability and high-level performance under moisture, vibration, and temperature fluctuations. The circular M23 Series is utilized in a wide-range of applications, such as industrial automation machinery, railway transportation and medical equipment. Due to potential variations in electrical currents across various applications, we offer customized pin configurations suited to your specific needs. The circular M23 Series includes a molded cable type along with both assembly and panel type, which is designed for primarily transferring both power and analog or digital signals. A metallic external shield is also available, with removal internal plastic components and terminals.

- Degree of protection IP68
- 6,7,8,9,12,16,17,19 poles are available
- 360° EMC shielding is available for molded cable type
- TPU over molded or Metal shell
- Anti-vibration locking screw design
- Cable length customized, PUR and PVC cable options

# M23 Quick Search Table

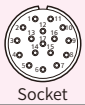
## M23 cables & connectors

| M23 Quick Search Table | | | |
|---|---|---|---|
| | Contacts | Signal | |
| | Rated Current@ 20°C | 20A | |
| | Voltage | 300V | |
| | Wire Gauge / size | 14AWG / 2.0mm² | |
| | Pin layout | Pin | Socket |
| **Signal Molded Cable** | | 6A | |
| | Straight Connector, Molded Cable, Unshielded, Coupling screw/nut | 478 | 480 |
| | Straight Connector, Molded Cable, Shielded, Coupling screw/nut | 479 | 481 |
| | Right Angle Connector, Molded Cable, Unshielded, Coupling screw/nut | 482 | 484 |
| | Right Angle Connector, Molded Cable, Shielded, Coupling screw/nut | 483 | 485 |
| **Signal Assembly Type** | | 6A | |
| | Straight Connector, Assembly, Shielded, Coupling screw/nut | 486 | 487 |
| | Right Angle Connector, Assembly, Coupling screw/nut | 488 | 489 |
| | Straight Connector, Field Wirable Assembly, Crimp Type, Shielded | 490 | - |
| | Straight Connector, Quick-lock, Field Wirable Assembly, Crimp Type, Shielded | - | 491 |
| | Straight Connector, Panel Mount with Flange, Coupling Screw, Assembly type | 492 | 492 |
| | Straight Connector, Panel Mount, Coupling Screw, Assembly type | 493 | 493 |
| **Signal Panel Mount Type** | | 6A | |
| | Straight Connector, Panel Mount, Solder, Front fastened, Coupling screw, with Flange | 494 | 494 |
| | Straight Connector, Panel Mount, Solder, Rear fastened, Coupling screw, with Flange | 495 | 495 |
| | Straight Connector, Panel Mount, Solder, Rear mount, Coupling screw | 496 | 496 |
| | Straight Connector, Panel Mount, Solder, Front fastened, Coupling screw | 497 | 497 |
| | Straight Connector, Panel Mount, PCB, Front fastened, Coupling screw | 498 | 498 |
| | Straight Connector, Panel Mount, PCB, Front fastened, Coupling screw, with Flange | 499 | 499 |
| | Straight Connector, Panel Mount, Crimp, Front fastened, Coupling screw | 500 | 500 |
| | Straight Connector, Panel Mount, Crimp type, Front fastened | 501 | - |
| **Power Molded Cable** | | 6A | |
| | Straight Connector, Molded Cable, Crimp Coupling screw/nut | - | - |
| | Right Angle Connector, Molded Cable, Crimp Coupling screw/nut | - | - |
| **Power Assembly Type** | | 6A | |
| | Straight Connector, Assembly, Crimp Coupling screw/nut | - | - |
| **Power Panel Mount Type** | | 6A | |
|  | Straight Connector, Panel Mount, Crimp, Coupling screw/nut | - | - |
| | Right Angle Connector, Panel Mount, Crimp, Coupling screw/nut | - | - |
| **Signal Connector Accessories** | | | |
| | Metal Protection Cap for male | 507 | |
| | Metal Protection Cap for female | 507 | |
| | Accessories TOOL-1 | 508 | |
| | Accessories TOOL-2 | 508 | |

| Signal | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20A | | 8A, 20A | | | | | | 8A | | | |
| 300V | | 300V | | | | | | 300V | | | |
| 14AWG / 2.0mm² | | 18AWG / 1.0mm², 14AWG / 2.0mm² | | | | | | 18AWG / 1.0mm² | | | |
| Pin | Socket | Pin | Socket | Pin | Socket | Pin | Socket |  Pin | Socket | Pin | Socket |
| 7A | | 9A(8+1) | | 9B(8+1) | | 9C(6+3) | | 12A(Standard) | | 12B(opposite) | |
| 478 | 480 | 478 | 480 | 478 | 480 | 478 | 480 | 478 | 480 | 478 | 480 |
| 479 | 481 | 479 | 481 | 479 | 481 | 479 | 481 | 479 | 481 | 479 | 481 |
| 482 | 484 | 482 | 484 | 482 | 484 | 482 | 484 | 482 | 484 | 482 | 484 |
| 483 | 485 | 483 | 485 | 483 | 485 | 483 | 485 | 483 | 485 | 483 | 485 |
| 7A | | 9A(8+1) | | 9B(8+1) | | 9C(6+3) | | 12A(Standard) | | 12B(opposite) | |
| 486 | 487 | 486 | 487 | 486 | 487 | 486 | 487 | 486 | 487 | 486 | 487 |
| 488 | 489 | 488 | 489 | 488 | 489 | 488 | 489 | 488 | 489 | 488 | 489 |
| 490 | - | 490 | - | 490 | - | 490 | - | 490 | - | 490 | - |
| - | 491 | - | 491 | - | 491 | - | 491 | - | 491 | - | 491 |
| 492 | 492 | 492 | 492 | 492 | 492 | 492 | 492 | 492 | 492 | 492 | 492 |
| 493 | 493 | 493 | 493 | 493 | 493 | 493 | 493 | 493 | 493 | 493 | 493 |
| 7A | | 9A(8+1) | | 9B(8+1) | | 9C(6+3) | | 12A(Standard) | | 12B(opposite) | |
| 494 | 494 | 494 | 494 | 494 | 494 | 494 | 494 | 494 | 494 | 494 | 494 |
| 495 | 495 | 495 | 495 | 495 | 495 | 495 | 495 | 495 | 495 | 495 | 495 |
| 496 | 496 | 496 | 496 | 496 | 496 | 496 | 496 | 496 | 496 | 496 | 496 |
| 497 | 497 | 497 | 497 | 497 | 497 | 497 | 497 | 497 | 497 | 497 | 497 |
| 498 | 498 | 498 | 498 | 498 | 498 | 498 | 498 | 498 | 498 | 498 | 498 |
| 499 | 499 | 499 | 499 | 499 | 499 | 499 | 499 | 499 | 499 | 499 | 499 |
| 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 |
| 501 | - | 501 | - | 501 | - | 501 | - | 501 | - | 501 | - |
| 7A | | 9A(8+1) | | 9B(8+1) | | 9C(6+3) | | 12A(Standard) | | 12B(opposite) | |
| - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - |
| 7A | | 9A(8+1) | | 9B(8+1) | | 9C(6+3) | | 12A(Standard) | | 12B(opposite) | |
| - | - | - | - | - | - | - | - | - | - | - | - |
| 7A | | 9A(8+1) | | 9B(8+1) | | 9C(6+3) | | 12A(Standard) | | 12B(opposite) | |
| - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - |

# M23 Quick Search Table

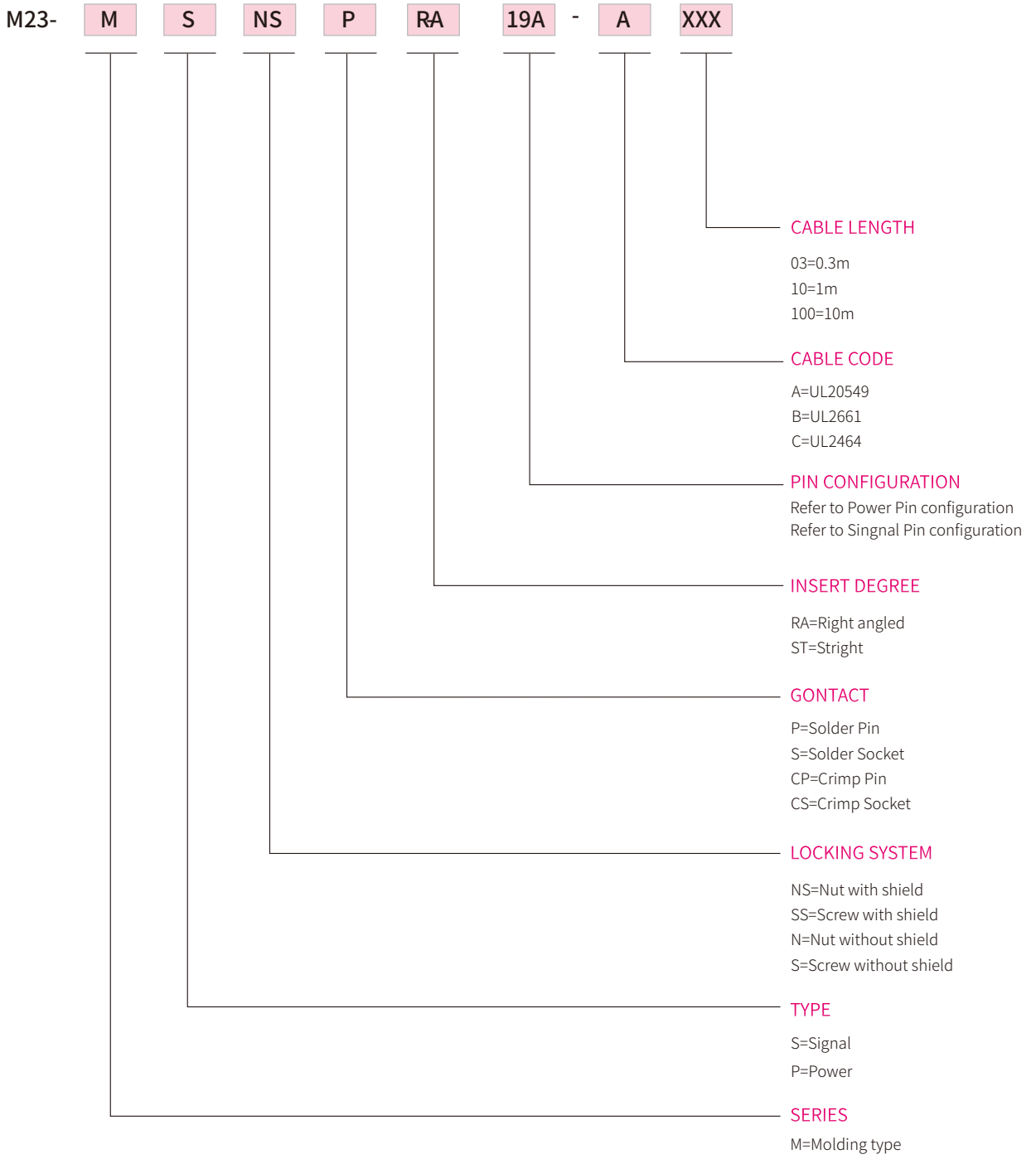
## M23 cables & connectors

| Signal | | | | | | | | Power | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 8A | | 8A | | | | 8A, 10A | | 30A | | 9A, 30A | |
| 160V | | 160V | | | | 160V | | 630V | | 250V, 630V | |
| 18AWG / 1.0mm² | | 18AWG / 1.0mm² | | | | 18AWG/1.0mm², 16AWG/1.5mm² | | 0.25~4.0mm² | | 0.08~1.0mm², 0.25~4.0mm² | |
| Pin | Socket | Pin |  Socket | Pin | Socket | Pin | Socket | Pin | Socket | Pin | Socket |
| 16A | | 17A(Standard) | | 17B(opposite) | | 19A(16+3) | | 06(5+PE) | | 08(4+3+PE) | |
| 478 | 480 | 478 | 480 | 478 | 480 | 478 | 480 | - | - | - | - |
| 479 | 481 | 479 | 481 | 479 | 481 | 479 | 481 | - | - | - | - |
| 482 | 484 | 482 | 484 | 482 | 484 | 482 | 484 | - | - | - | - |
| 483 | 485 | 483 | 485 | 483 | 485 | 483 | 485 | - | - | - | - |
| 16A | | 17A(Standard) | | 17B(opposite) | | 19A(16+3) | | 06(5+PE) | | 08(4+3+PE) | |
| 486 | 487 | 486 | 487 | 486 | 487 | 486 | 487 | - | - | - | - |
| 488 | 489 | 488 | 489 | 488 | 489 | 488 | 489 | - | - | - | - |
| 490 | - | 490 | - | 490 | - | 490 | - | - | - | - | - |
| - | 491 | - | 491 | - | 491 | - | 491 | - | - | - | - |
| 492 | 492 | 492 | 492 | 492 | 492 | 492 | 492 | - | - | - | - |
| 493 | 493 | 493 | 493 | 493 | 493 | 493 | 493 | - | - | - | - |
| 16A | | 17A(Standard) | | 17B(opposite) | | 19A(16+3) | | 06(5+PE) | | 08(4+3+PE) | |
| 494 | 494 | 494 | 494 | 494 | 494 | 494 | 494 | - | - | - | - |
| 495 | 495 | 495 | 495 | 495 | 495 | 495 | 495 | - | - | - | - |
| 496 | 496 | 496 | 496 | 496 | 496 | 496 | 496 | - | - | - | - |
| 497 | 497 | 497 | 497 | 497 | 497 | 497 | 497 | - | - | - | - |
| 498 | 498 | 498 | 498 | 498 | 498 | 498 | 498 | - | - | - | - |
| 499 | 499 | 499 | 499 | 499 | 499 | 499 | 499 | - | - | - | - |
| 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | - | - | - | - |
| 501 | - | 501 | - | 501 | - | 501 | - | - | - | - | - |
| 16A | | 17A(Standard) | | 17B(opposite) | | 19A(16+3) | | 06(5+PE) | | 08(4+3+PE) | |
| - | - | - | - | - | - | - | - | 502 | 502 | 502 | 502 |
| - | - | - | - | - | - | - | - | 503 | 503 | 503 | 503 |
| 16A | | 17A(Standard) | | 17B(opposite) | | 19A(16+3) | | 06(5+PE) | | 08(4+3+PE) | |
| - | - | - | - | - | - | - | - | 504 | 504 | 504 | 504 |
| 16A | | 17A(Standard) | | 17B(opposite) | | 19A(16+3) | | 06(5+PE) | | 08(4+3+PE) | |
| - | - | - | - | - | - | - | - | 505 | 505 | 505 | 505 |
| - | - | - | - | - | - | - | - | 506 | 506 | 506 | 506 |

# M23

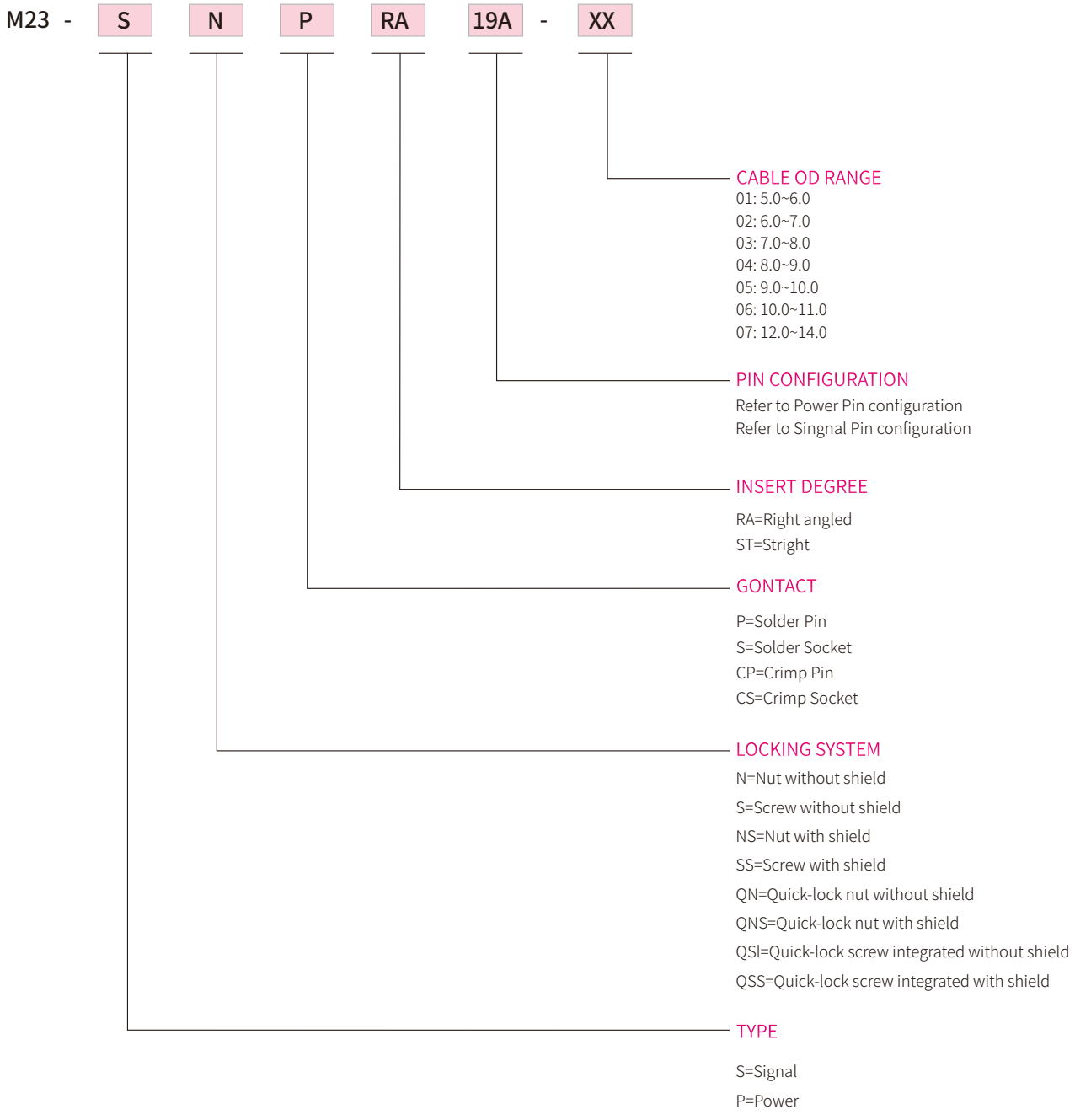
## How to Order Part Number

### ■ M23 series with cable molded



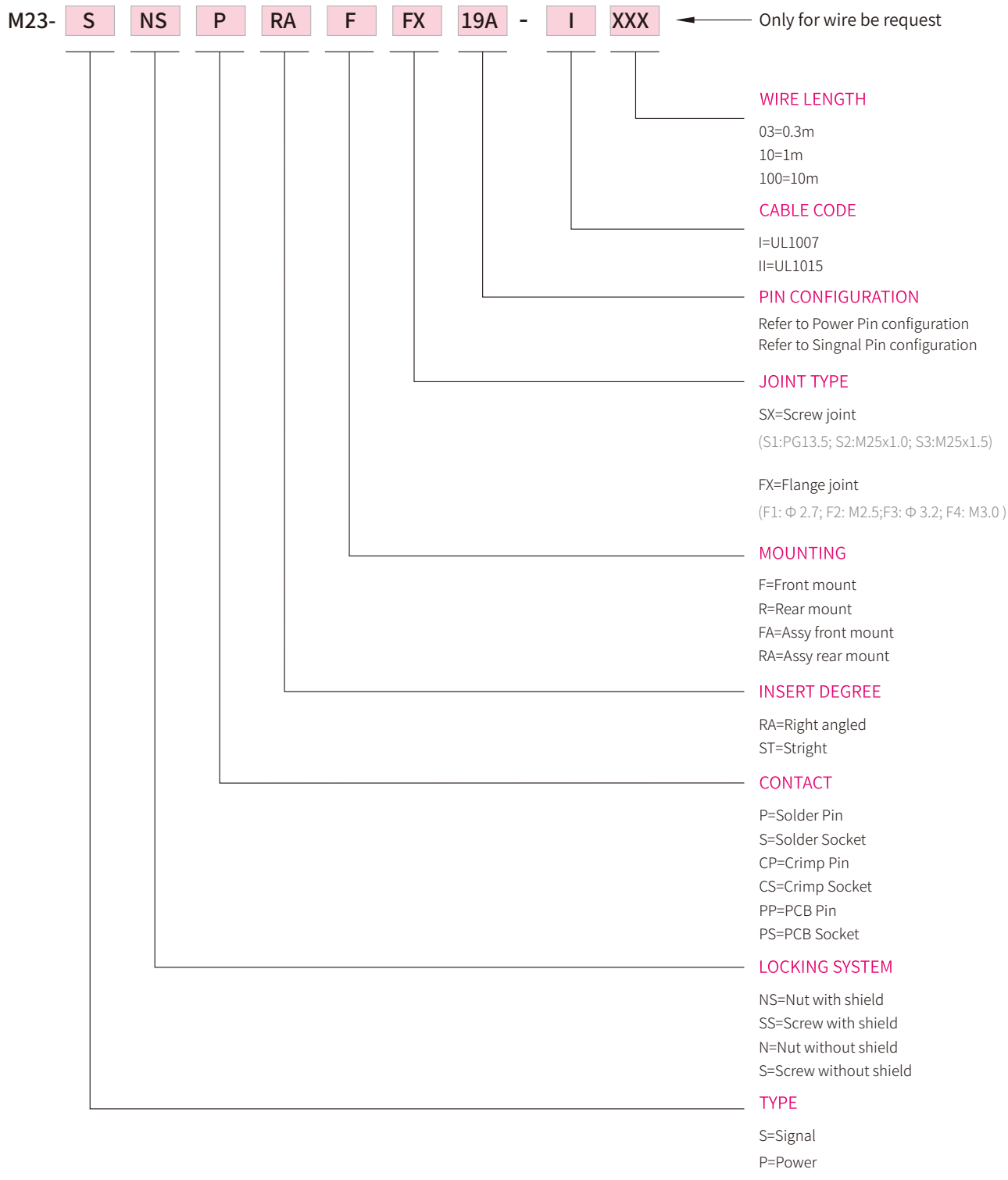
## How to Order Part Number

### ■ M23 Series Assembly type



## How to Order Part Number

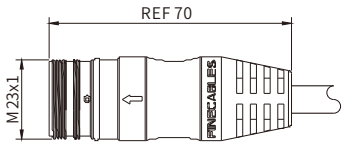
### ■ M23 Panel type with or without wire



# M23 Signal

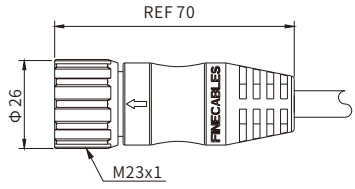
## M23 Straight Connector, Molded Cable, Male Unshielded, Coupling screw/nut

Coupling screw




CE RoHS IP68

Coupling nut




CE RoHS IP68

## Specifications

| Contacts | 6A | 7A | 9A | 9B | 9C | 12A | 12B | 16A | 17A | 17B | 19A | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pin layout(Male) | | | | | | | | | | | | |
| Connector overmold | TPU | | | | | | | | | | | |
| Connector insert | PA | | | | | | | | | | | |
| Connector contacts | Brass with gold plated | | | | | | | | | | | |
| Coupling nut/screw | Brass with nickel plated | | | | | | | | | | | |
| Seal/O-ring | FKM or NBR | | | | | | | | | | | |
| Mating Endurance | >800 | | | | | | | | | | | |
| Insulation resistance | ⩾100MΩ | | | | | | | | | | | |
| Contact resistance | ⩽5mΩ | | | | | | | | | | | |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | | | | | | | | | | | |
| Shielding | Unavailable | | | | | | | | | | | |
| IP rating | IP67, IP68 in locked condition | | | | | | | | | | | |
| Cable OD range | 2.0~13mm | | | | | | | | | | | |
| Number of positions | 6,7 | | 9(8+1)/(6+3) | | | 12 | | 16 | 17 | | 19(16+3) | |
| Contacts | 6,7 | | 8 / 6 | | 1 / 3 | 12 | | 16 | 17 | | 16 | 3 |
| Contact OD(mm) | 2.0(14AWG) | | 1.0(18AWG) | | 2.0(14AWG) | 1.0(18AWG) | | 1.0(18AWG) | 1.0(18AWG) | | 1.0(18AWG) | 1.5(16AWG) |
| Rated current @ 20°C(A) | 20 | | 8 | | 20 | 8 | | 8 | 8 | | 8 | 10 |
| Rated Voltage(V) | 300 | | 300 | | 300 | 160 | | 160 | 160 | | 160 | 160 |
| Impulse voltage(V) | 2500 | | 2500 | | 2500 | 1500 | | 1500 | 1500 | | 1500 | 1500 |
| Overvoltage category | II | | | | | | | | | | | |
| Pollution Degree | III | | | | | | | | | | | |
| Default wire colors | Refer to page 509 | | | | | | | | | | | |

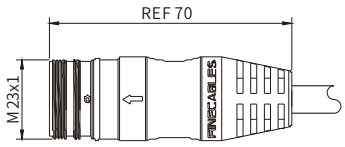
## Part Number

| Pins | Cable length | Connection Type | Coupling screw | | Coupling nut | |
|---|---|---|---|---|---|---|
| | | | PVC | PUR | PVC | PUR |
| 6A | 3m | solder | M23-MSSPST06A-C30 | M23-MSSPST06A-A30 | M23-MSNPST06A-C30 | M23-MSNPST06A-A30 |
| | 3m | crimp | M23-MSSCPST06A-C30 | M23-MSSCPST06A-A30 | M23-MSNCPST06A-C30 | M23-MSNCPST06A-A30 |
| 7A | 3m | solder | M23-MSSPST07A-C30 | M23-MSSPST07A-A30 | M23-MSNPST07A-C30 | M23-MSNPST07A-A30 |
| | 3m | crimp | M23-MSSCPST07A-C30 | M23-MSSCPST07A-A30 | M23-MSNCPST07A-C30 | M23-MSNCPST07A-A30 |
| 9A | 3m | solder | M23-MSSPST09A-C30 | M23-MSSPST09A-A30 | M23-MSNPST09A-C30 | M23-MSNPST09A-A30 |
| | 3m | crimp | M23-MSSCPST09A-C30 | M23-MSSCPST09A-A30 | M23-MSNCPST09A-C30 | M23-MSNCPST09A-A30 |
| 9B | 3m | solder | M23-MSSPST09B-C30 | M23-MSSPST09B-A30 | M23-MSNPST09B-C30 | M23-MSNPST09B-A30 |
| | 3m | crimp | M23-MSSCPST09B-C30 | M23-MSSCPST09B-A30 | M23-MSNCPST09B-C30 | M23-MSNCPST09B-A30 |
| 9C | 3m | solder | M23-MSSPST09C-C30 | M23-MSSPST09C-A30 | M23-MSNPST09C-C30 | M23-MSNPST09C-A30 |
| | 3m | crimp | M23-MSSSPST09C-C30 | M23-MSSSPST09C-A30 | M23-MSNCPST09C-C30 | M23-MSNCPST09C-A30 |
| 12A | 3m | solder | M23-MSSPST12A-C30 | M23-MSSPST12A-A30 | M23-MSNPST12A-C30 | M23-MSNPST12A-A30 |
| | 3m | crimp | M23-MSSSPST12A-C30 | M23-MSSSPST12A-A30 | M23-MSNCPST12A-C30 | M23-MSNCPST12A-A30 |
| 12B | 3m | solder | M23-MSSPST12B-C30 | M23-MSSPST12B-A30 | M23-MSNPST12B-C30 | M23-MSNPST12B-A30 |
| | 3m | crimp | M23-MSSSPST12B-C30 | M23-MSSSPST12B-A30 | M23-MSNCPST12B-C30 | M23-MSNCPST12B-A30 |
| 16A | 3m | solder | M23-MSSPST16A-C30 | M23-MSSPST16A-A30 | M23-MSNPST16A-C30 | M23-MSNPST16A-A30 |
| | 3m | crimp | M23-MSSCPST16A-C30 | M23-MSSCPST16A-A30 | M23-MSNCPST16A-C30 | M23-MSNCPST16A-A30 |
| 17A | 3m | solder | M23-MSSPST17A-C30 | M23-MSSPST17A-A30 | M23-MSNPST17A-C30 | M23-MSNPST17A-A30 |
| | 3m | crimp | M23-MSSCPST17A-C30 | M23-MSSCPST17A-A30 | M23-MSNCPST17A-C30 | M23-MSNCPST17A-A30 |
| 17B | 3m | solder | M23-MSSPST17B-C30 | M23-MSSPST17B-A30 | M23-MSNPST17B-C30 | M23-MSNPST17B-A30 |
| | 3m | crimp | M23-MSSCPST17B-C30 | M23-MSSCPST17B-A30 | M23-MSNCPST17B-C30 | M23-MSNCPST17B-A30 |
| 19A | 3m | solder | M23-MSSPST19A-C30 | M23-MSSPST19A-A30 | M23-MSNPST19A-C30 | M23-MSNPST19A-A30 |
| | 3m | crimp | M23-MSSCPST19A-C30 | M23-MSSCPST19A-A30 | M23-MSNCPST19A-C30 | M23-MSNCPST19A-A30 |

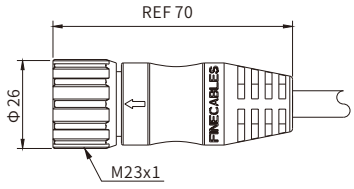
# M23 Signal

## M23 Straight Connector, Molded Cable, Male, Shielded, Coupling screw/nut

Coupling screw




Coupling nut




CE RoHS IP68

CE RoHS IP68

## Specifications

| Contacts | 6A | 7A | 9A | 9B | 9C | 12A | 12B | 16A | 17A | 17B | 19A |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Pin layout(Male) | | | | | | | | | | | |
| Connector overmold | TPU | | | | | | | | | | |
| Connector insert | PA | | | | | | | | | | |
| Connector contacts | Brass with gold plated | | | | | | | | | | |
| Coupling nut/screw | Brass with nickel plated | | | | | | | | | | |
| Seal/O-ring | FKM or NBR | | | | | | | | | | |
| Mating Endurance | >800 | | | | | | | | | | |
| Insulation resistance | ⩾100MΩ | | | | | | | | | | |
| Contact resistance | ⩽5mΩ | | | | | | | | | | |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | | | | | | | | | | |
| Shielding | Available | | | | | | | | | | |
| IP rating | IP67, IP68 in locked condition | | | | | | | | | | |
| Cable OD range | 2.0~13mm | | | | | | | | | | |
| Number of positions | 6,7 | 9(8+1)/(6+3) | | | | 12 | 16 | 17 | 19(16+3) | | |
| Contacts | 6,7 | 8 / 6 | 1 / 3 | | | 12 | 16 | 17 | 16 | 3 | |
| Contact OD(mm) | 2.0(14AWG) | 1.0(18AWG) | 2.0(14AWG) | | | 1.0(18AWG) | 1.0(18AWG) | 1.0(18AWG) | 1.0(18AWG) | 1.5(16AWG) | |
| Rated current @ 20°C(A) | 20 | 8 | 20 | | | 8 | 8 | 8 | 8 | 10 | |
| Rated Voltage(V) | 300 | 300 | 300 | | | 160 | 160 | 160 | 160 | 160 | |
| Impulse voltage(V) | 2500 | 2500 | 2500 | | | 1500 | 1500 | 1500 | 1500 | 1500 | |
| Overvoltage category | II | | | | | | | | | | |
| Pollution Degree | III | | | | | | | | | | |
| Default wire colors | Refer to page 509 | | | | | | | | | | |

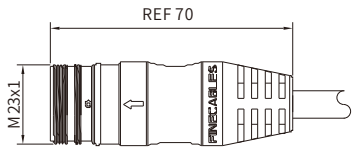
## Part Number

| Pins | Cable length | Connection Type | Coupling screw | | Coupling nut | |
|---|---|---|---|---|---|---|
| | | | PVC | PUR | PVC | PUR |
| 6A | 3m | solder | M23-MSSSPST06A-C30 | M23-MSSSPST06A-A30 | M23-MSNSPST06A-C30 | M23-MSNSPST06A-A30 |
| | 3m | crimp | M23-MSSSCPST06A-C30 | M23-MSSSCPST06A-A30 | M23-MSNSCPST06A-C30 | M23-MSNSCPST06A-A30 |
| 7A | 3m | solder | M23-MSSSPST07A-C30 | M23-MSSSPST07A-A30 | M23-MSNSPST07A-C30 | M23-MSNSPST07A-A30 |
| | 3m | crimp | M23-MSSSCPST07A-C30 | M23-MSSSCPST07A-A30 | M23-MSNSCPST07A-C30 | M23-MSNSCPST07A-A30 |
| 9A | 3m | solder | M23-MSSSPST09A-C30 | M23-MSSSPST09A-A30 | M23-MSNSPST09A-C30 | M23-MSNSPST09A-A30 |
| | 3m | crimp | M23-MSSSCPST09A-C30 | M23-MSSSCPST09A-A30 | M23-MSNSCPST09A-C30 | M23-MSNSCPST09A-A30 |
| 9B | 3m | solder | M23-MSSSPST09B-C30 | M23-MSSSPST09B-A30 | M23-MSNSPST09B-C30 | M23-MSNSPST09B-A30 |
| | 3m | crimp | M23-MSSSCPST09B-C30 | M23-MSSSCPST09B-A30 | M23-MSNSCPST09B-C30 | M23-MSNSCPST09B-A30 |
| 9C | 3m | solder | M23-MSSSPST09C-C30 | M23-MSSSPST09C-A30 | M23-MSNSPST09C-C30 | M23-MSNSPST09C-A30 |
| | 3m | crimp | M23-MSSSCPST09C-C30 | M23-MSSSCPST09C-A30 | M23-MSNSCPST09C-C30 | M23-MSNSCPST09C-A30 |
| 12A | 3m | solder | M23-MSSSPST12A-C30 | M23-MSSSPST12A-A30 | M23-MSNSPST12A-C30 | M23-MSNSPST12A-A30 |
| | 3m | crimp | M23-MSSSCPST12A-C30 | M23-MSSSCPST12A-A30 | M23-MSNSCPST12A-C30 | M23-MSNSCPST12A-A30 |
| 12B | 3m | solder | M23-MSSSPST12B-C30 | M23-MSSSPST12B-A30 | M23-MSNSPST12B-C30 | M23-MSNSPST12B-A30 |
| | 3m | crimp | M23-MSSSCPST12B-C30 | M23-MSSSCPST12B-A30 | M23-MSNSCPST12B-C30 | M23-MSNSCPST12B-A30 |
| 16A | 3m | solder | M23-MSSSPST16A-C30 | M23-MSSSPST16A-A30 | M23-MSNSPST16A-C30 | M23-MSNSPST16A-A30 |
| | 3m | crimp | M23-MSSSCPST16A-C30 | M23-MSSSCPST16A-A30 | M23-MSNSCPST16A-C30 | M23-MSNSCPST16A-A30 |
| 17A | 3m | solder | M23-MSSSPST17A-C30 | M23-MSSSPST17A-A30 | M23-MSNSPST17A-C30 | M23-MSNSPST17A-A30 |
| | 3m | crimp | M23-MSSSCPST17A-C30 | M23-MSSSCPST17A-A30 | M23-MSNSCPST17A-C30 | M23-MSNSCPST17A-A30 |
| 17B | 3m | solder | M23-MSSSPST17B-C30 | M23-MSSSPST17B-A30 | M23-MSNSPST17B-C30 | M23-MSNSPST17B-A30 |
| | 3m | crimp | M23-MSSSCPST17B-C30 | M23-MSSSCPST17B-A30 | M23-MSNSCPST17B-C30 | M23-MSNSCPST17B-A30 |
| 19A | 3m | solder | M23-MSSSPST19A-C30 | M23-MSSSPST19A-A30 | M23-MSNSPST19A-C30 | M23-MSNSPST19A-A30 |
| | 3m | crimp | M23-MSSSCPST19A-C30 | M23-MSSSCPST19A-A30 | M23-MSNSCPST19A-C30 | M23-MSNSCPST19A-A30 |

# M23 Signal

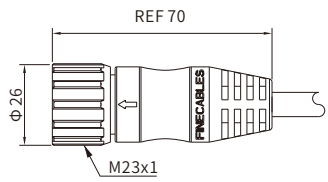
## M23 Straight Connector, Molded Cable, Female Unshielded, Coupling screw/nut

Coupling screw




CE RoHS IP68

Coupling nut




CE RoHS IP68

## Specifications

| Contacts | 6A | 7A | 9A | 9B | 9C | 12A | 12B | 16A | 17A | 17B | 19A | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pin layout(Female) | | | | | | | | | | | | |
| Connector overmold | TPU | | | | | | | | | | | |
| Connector insert | PA | | | | | | | | | | | |
| Connector contacts | Brass with gold plated | | | | | | | | | | | |
| Coupling nut/screw | Brass with nickel plated | | | | | | | | | | | |
| Seal/O-ring | FKM or NBR | | | | | | | | | | | |
| Mating Endurance | >800 | | | | | | | | | | | |
| Insulation resistance | ⩾100MΩ | | | | | | | | | | | |
| Contact resistance | ⩽5mΩ | | | | | | | | | | | |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | | | | | | | | | | | |
| Shielding | Unavailable | | | | | | | | | | | |
| IP rating | IP67, IP68 in locked condition | | | | | | | | | | | |
| Cable OD range | 2.0~13mm | | | | | | | | | | | |
| Number of positions | 6,7 | | 9(8+1)/(6+3) | | | 12 | | 16 | 17 | | 19(16+3) | |
| Contacts | 6,7 | | 8 / 6 | | 1 / 3 | 12 | | 16 | 17 | | 16 | 3 |
| Contact OD(mm) | 2.0(14AWG) | | 1.0(18AWG) | | 2.0(14AWG) | 1.0(18AWG) | | 1.0(18AWG) | 1.0(18AWG) | | 1.0(18AWG) | 1.5(16AWG) |
| Rated current @ 20°C(A) | 20 | | 8 | | 20 | 8 | | 8 | 8 | | 8 | 10 |
| Rated Voltage(V) | 300 | | 300 | | 300 | 160 | | 160 | 160 | | 160 | 160 |
| Impulse voltage(V) | 2500 | | 2500 | | 2500 | 1500 | | 1500 | 1500 | | 1500 | 1500 |
| Overvoltage category | II | | | | | | | | | | | |
| Pollution Degree | III | | | | | | | | | | | |
| Default wire colors | Refer to page 509 | | | | | | | | | | | |

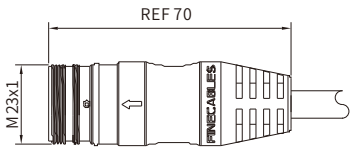
## Part Number

| Pins | Cable length | Connection Type | Coupling screw | | Coupling nut | |
|---|---|---|---|---|---|---|
| | | | PVC | PUR | PVC | PUR |
| 6A | 3m | solder | M23-MSSSST06A-C30 | M23-MSSSST06A-A30 | M23-MSNSST06A-C30 | M23-MSNSST06A-A30 |
| | 3m | crimp | M23-MSSCSST06A-C30 | M23-MSSCSST06A-A30 | M23-MSNCSST06A-C30 | M23-MSNCSST06A-A30 |
| 7A | 3m | solder | M23-MSSSST07A-C30 | M23-MSSSST07A-A30 | M23-MSNSST07A-C30 | M23-MSNSST07A-A30 |
| | 3m | crimp | M23-MSSCSST07A-C30 | M23-MSSCSST07A-A30 | M23-MSNCSST07A-C30 | M23-MSNCSST07A-A30 |
| 9A | 3m | solder | M23-MSSSST09A-C30 | M23-MSSSST09A-A30 | M23-MSNSST09A-C30 | M23-MSNSST09A-A30 |
| | 3m | crimp | M23-MSSCSST09A-C30 | M23-MSSCSST09A-A30 | M23-MSNCSST09A-C30 | M23-MSNCSST09A-A30 |
| 9B | 3m | solder | M23-MSSSST09B-C30 | M23-MSSSST09B-A30 | M23-MSNSST09B-C30 | M23-MSNSST09B-A30 |
| | 3m | crimp | M23-MSSCSST09B-C30 | M23-MSSCSST09B-A30 | M23-MSNCSST09B-C30 | M23-MSNCSST09B-A30 |
| 9C | 3m | solder | M23-MSSSST09C-C30 | M23-MSSSST09C-A30 | M23-MSNSST09C-C30 | M23-MSNSST09C-A30 |
| | 3m | crimp | M23-MSSSSST09C-C30 | M23-MSSSSST09C-A30 | M23-MSNCSST09C-C30 | M23-MSNCSST09C-A30 |
| 12A | 3m | solder | M23-MSSSST12A-C30 | M23-MSSSST12A-A30 | M23-MSNSST12A-C30 | M23-MSNSST12A-A30 |
| | 3m | crimp | M23-MSSSSST12A-C30 | M23-MSSSSST12A-A30 | M23-MSNCSST12A-C30 | M23-MSNCSST12A-A30 |
| 12B | 3m | solder | M23-MSSSST12B-C30 | M23-MSSSST12B-A30 | M23-MSNSST12B-C30 | M23-MSNSST12B-A30 |
| | 3m | crimp | M23-MSSSSST12B-C30 | M23-MSSSSST12B-A30 | M23-MSNCSST12B-C30 | M23-MSNCSST12B-A30 |
| 16A | 3m | solder | M23-MSSSST16A-C30 | M23-MSSSST16A-A30 | M23-MSNSST16A-C30 | M23-MSNSST16A-A30 |
| | 3m | crimp | M23-MSSCSST16A-C30 | M23-MSSCSST16A-A30 | M23-MSNCSST16A-C30 | M23-MSNCSST16A-A30 |
| 17A | 3m | solder | M23-MSSSST17A-C30 | M23-MSSSST17A-A30 | M23-MSNSST17A-C30 | M23-MSNSST17A-A30 |
| | 3m | crimp | M23-MSSCSST17A-C30 | M23-MSSCSST17A-A30 | M23-MSNCSST17A-C30 | M23-MSNCSST17A-A30 |
| 17B | 3m | solder | M23-MSSSST17B-C30 | M23-MSSSST17B-A30 | M23-MSNSST17B-C30 | M23-MSNSST17B-A30 |
| | 3m | crimp | M23-MSSCSST17B-C30 | M23-MSSCSST17B-A30 | M23-MSNCSST17B-C30 | M23-MSNCSST17B-A30 |
| 19A | 3m | solder | M23-MSSSST19A-C30 | M23-MSSSST19A-A30 | M23-MSNSST19A-C30 | M23-MSNSST19A-A30 |
| | 3m | crimp | M23-MSSCSST19A-C30 | M23-MSSCSST19A-A30 | M23-MSNCSST19A-C30 | M23-MSNCSST19A-A30 |

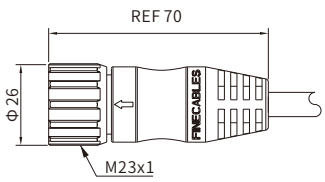
# M23 Signal

## M23 Straight Connector, Molded Cable, Female, Shielded, Coupling screw/nut

Coupling screw




Coupling nut




CE RoHS IP68

CE RoHS IP68

## Specifications

| Contacts | 6A | 7A | 9A | 9B | 9C | 12A | 12B | 16A | 17A | 17B | 19A |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Pin layout(Female) | | | | | | | | | | | |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Connector overmold | TPU | | | | | | | | | | |
| Connector insert | PA | | | | | | | | | | |
| Connector contacts | Brass with gold plated | | | | | | | | | | |
| Coupling nut/screw | Brass with nickel plated | | | | | | | | | | |
| Seal/O-ring | FKM or NBR | | | | | | | | | | |
| Mating Endurance | >800 | | | | | | | | | | |
| Insulation resistance | ≥100MΩ | | | | | | | | | | |
| Contact resistance | ≤5mΩ | | | | | | | | | | |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | | | | | | | | | | |
| Shielding | Available | | | | | | | | | | |
| IP rating | IP67, IP68 in locked condition | | | | | | | | | | |
| Cable OD range | 2.0~13mm | | | | | | | | | | |
| Number of positions | 6,7 | 9(8+1)/(6+3) | | | | 12 | | 16 | 17 | 19(16+3) | |
| Contacts | 6,7 | 8 / 6 | 1 / 3 | | | 12 | | 16 | 17 | 16 | 3 |
| Contact OD(mm) | 2.0(14AWG) | 1.0(18AWG) | 2.0(14AWG) | | | 1.0(18AWG) | | 1.0(18AWG) | 1.0(18AWG) | 1.0(18AWG) | 1.5(16AWG) |
| Rated current @ 20°C(A) | 20 | 8 | 20 | | | 8 | | 8 | 8 | 8 | 10 |
| Rated Voltage(V) | 300 | 300 | 300 | | | 160 | | 160 | 160 | 160 | 160 |
| Impulse voltage(V) | 2500 | 2500 | 2500 | | | 1500 | | 1500 | 1500 | 1500 | 1500 |
| Overvoltage category | II | | | | | | | | | | |
| Pollution Degree | III | | | | | | | | | | |
| Default wire colors | Refer to page 509 | | | | | | | | | | |

## Part Number

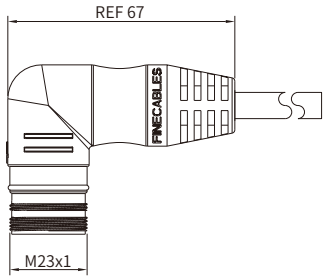
| Pins | Cable length | Connection Type | Coupling screw | | Coupling nut | |
|---|---|---|---|---|---|---|
| | | | PVC | PUR | PVC | PUR |
| 6A | 3m | solder | M23-MSSSSST06A-C30 | M23-MSSSSST06A-A30 | M23-MSNSSST06A-C30 | M23-MSNSSST06A-A30 |
| | 3m | crimp | M23-MSSSCSST06A-C30 | M23-MSSSCSST06A-A30 | M23-MSNSCSST06A-C30 | M23-MSNSCSST06A-A30 |
| 7A | 3m | solder | M23-MSSSSST07A-C30 | M23-MSSSSST07A-A30 | M23-MSNSSST07A-C30 | M23-MSNSSST07A-A30 |
| | 3m | crimp | M23-MSSSCSST07A-C30 | M23-MSSSCSST07A-A30 | M23-MSNSCSST07A-C30 | M23-MSNSCSST07A-A30 |
| 9A | 3m | solder | M23-MSSSSST09A-C30 | M23-MSSSSST09A-A30 | M23-MSNSSST09A-C30 | M23-MSNSSST09A-A30 |
| | 3m | crimp | M23-MSSSCSST09A-C30 | M23-MSSSCSST09A-A30 | M23-MSNSCSST09A-C30 | M23-MSNSCSST09A-A30 |
| 9B | 3m | solder | M23-MSSSSST09B-C30 | M23-MSSSSST09B-A30 | M23-MSNSSST09B-C30 | M23-MSNSSST09B-A30 |
| | 3m | crimp | M23-MSSSCSST09B-C30 | M23-MSSSCSST09B-A30 | M23-MSNSCSST09B-C30 | M23-MSNSCSST09B-A30 |
| 9C | 3m | solder | M23-MSSSSST09C-C30 | M23-MSSSSST09C-A30 | M23-MSNSSST09C-C30 | M23-MSNSSST09C-A30 |
| | 3m | crimp | M23-MSSSCSST09C-C30 | M23-MSSSCSST09C-A30 | M23-MSNSCSST09C-C30 | M23-MSNSCSST09C-A30 |
| 12A | 3m | solder | M23-MSSSSST12A-C30 | M23-MSSSSST12A-A30 | M23-MSNSSST12A-C30 | M23-MSNSSST12A-A30 |
| | 3m | crimp | M23-MSSSCSST12A-C30 | M23-MSSSCSST12A-A30 | M23-MSNSCSST12A-C30 | M23-MSNSCSST12A-A30 |
| 12B | 3m | solder | M23-MSSSSST12B-C30 | M23-MSSSSST12B-A30 | M23-MSNSSST12B-C30 | M23-MSNSSST12B-A30 |
| | 3m | crimp | M23-MSSSCSST12B-C30 | M23-MSSSCSST12B-A30 | M23-MSNSCSST12B-C30 | M23-MSNSCSST12B-A30 |
| 16A | 3m | solder | M23-MSSSSST16A-C30 | M23-MSSSSST16A-A30 | M23-MSNSSST16A-C30 | M23-MSNSSST16A-A30 |
| | 3m | crimp | M23-MSSSCSST16A-C30 | M23-MSSSCSST16A-A30 | M23-MSNSCSST16A-C30 | M23-MSNSCSST16A-A30 |
| 17A | 3m | solder | M23-MSSSSST17A-C30 | M23-MSSSSST17A-A30 | M23-MSNSSST17A-C30 | M23-MSNSSST17A-A30 |
| | 3m | crimp | M23-MSSSCSST17A-C30 | M23-MSSSCSST17A-A30 | M23-MSNSCSST17A-C30 | M23-MSNSCSST17A-A30 |
| 17B | 3m | solder | M23-MSSSSST17B-C30 | M23-MSSSSST17B-A30 | M23-MSNSSST17B-C30 | M23-MSNSSST17B-A30 |
| | 3m | crimp | M23-MSSSCSST17B-C30 | M23-MSSSCSST17B-A30 | M23-MSNSCSST17B-C30 | M23-MSNSCSST17B-A30 |
| 19A | 3m | solder | M23-MSSSSST19A-C30 | M23-MSSSSST19A-A30 | M23-MSNSSST19A-C30 | M23-MSNSSST19A-A30 |
| | 3m | crimp | M23-MSSSCSST19A-C30 | M23-MSSSCSST19A-A30 | M23-MSNSCSST19A-C30 | M23-MSNSCSST19A-A30 |

# M23 Signal

## M23 Right Angle Connector, Molded Cable, Male Unshielded, Coupling screw/nut

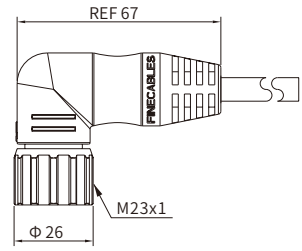
Coupling screw

CE RoHS




Coupling nut

CE RoHS




## Specifications

| Contacts | 6A | 7A | 9A | 9B | 9C | 12A | 12B | 16A | 17A | 17B | 19A |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Pin layout(Male) | | | | | | | | | | | |
| Connector overmold | TPU | | | | | | | | | | |
| Connector insert | PA | | | | | | | | | | |
| Connector contacts | Brass with gold plated | | | | | | | | | | |
| Coupling nut/screw | Brass with nickel plated | | | | | | | | | | |
| Seal/O-ring | FKM or NBR | | | | | | | | | | |
| Mating Endurance | >800 | | | | | | | | | | |
| Insulation resistance | ⩾100MΩ | | | | | | | | | | |
| Contact resistance | ⩽5mΩ | | | | | | | | | | |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | | | | | | | | | | |
| Shielding | Unavailable | | | | | | | | | | |
| IP rating | IP67, IP68 in locked condition | | | | | | | | | | |
| Cable OD range | 2.0~13mm | | | | | | | | | | |
| Number of positions | 6,7 | 9(8+1)/(6+3) | | 12 | 16 | 17 | 19(16+3) | | | | |
| Contacts | 6,7 | 8 / 6 | 1 / 3 | 12 | 16 | 17 | 16 | 3 | | | |
| Contact OD(mm) | 2.0(14AWG) | 1.0(18AWG) | 2.0(14AWG) | 1.0(18AWG) | 1.0(18AWG) | 1.0(18AWG) | 1.0(18AWG) | 1.5(16AWG) | | | |
| Rated current @ 20°C(A) | 20 | 8 | 20 | 8 | 8 | 8 | 8 | 10 | | | |
| Rated Voltage(V) | 300 | 300 | 300 | 160 | 160 | 160 | 160 | 160 | | | |
| Impulse voltage(V) | 2500 | 2500 | 2500 | 1500 | 1500 | 1500 | 1500 | 1500 | | | |
| Overvoltage category | II | | | | | | | | | | |
| Pollution Degree | III | | | | | | | | | | |
| Default wire colors | Refer to page 509 | | | | | | | | | | |

## Part Number

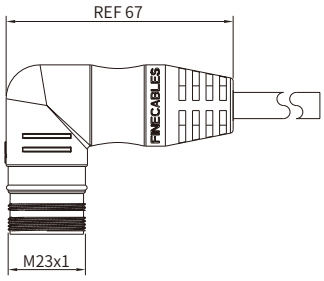
| Pins | Cable length | Connection Type | Coupling screw | | Coupling nut | |
|---|---|---|---|---|---|---|
| | | | PVC | PUR | PVC | PUR |
| 6A | 3m | solder | M23-MSSPRA06A-C30 | M23-MSSPRA06A-A30 | M23-MSNPRA06A-C30 | M23-MSNPRA06A-A30 |
| | 3m | crimp | M23-MSSCPRA06A-C30 | M23-MSSCPRA06A-A30 | M23-MSNCPRA06A-C30 | M23-MSNCPRA06A-A30 |
| 7A | 3m | solder | M23-MSSPRA07A-C30 | M23-MSSPRA07A-A30 | M23-MSNPRA07A-C30 | M23-MSNPRA07A-A30 |
| | 3m | crimp | M23-MSSCPRA07A-C30 | M23-MSSCPRA07A-A30 | M23-MSNCPRA07A-C30 | M23-MSNCPRA07A-A30 |
| 9A | 3m | solder | M23-MSSPRA09A-C30 | M23-MSSPRA09A-A30 | M23-MSNPRA09A-C30 | M23-MSNPRA09A-A30 |
| | 3m | crimp | M23-MSSCPRA09A-C30 | M23-MSSCPRA09A-A30 | M23-MSNCPRA09A-C30 | M23-MSNCPRA09A-A30 |
| 9B | 3m | solder | M23-MSSPRA09B-C30 | M23-MSSPRA09B-A30 | M23-MSNPRA09B-C30 | M23-MSNPRA09B-A30 |
| | 3m | crimp | M23-MSSCPRA09B-C30 | M23-MSSCPRA09B-A30 | M23-MSNCPRA09B-C30 | M23-MSNCPRA09B-A30 |
| 9C | 3m | solder | M23-MSSPRA09C-C30 | M23-MSSPRA09C-A30 | M23-MSNPRA09C-C30 | M23-MSNPRA09C-A30 |
| | 3m | crimp | M23-MSSSPRA09C-C30 | M23-MSSSPRA09C-A30 | M23-MSNCPRA09C-C30 | M23-MSNCPRA09C-A30 |
| 12A | 3m | solder | M23-MSSPRA12A-C30 | M23-MSSPRA12A-A30 | M23-MSNPRA12A-C30 | M23-MSNPRA12A-A30 |
| | 3m | crimp | M23-MSSSPRA12A-C30 | M23-MSSSPRA12A-A30 | M23-MSNCPRA12A-C30 | M23-MSNCPRA12A-A30 |
| 12B | 3m | solder | M23-MSSPRA12B-C30 | M23-MSSPRA12B-A30 | M23-MSNPRA12B-C30 | M23-MSNPRA12B-A30 |
| | 3m | crimp | M23-MSSSPRA12B-C30 | M23-MSSSPRA12B-A30 | M23-MSNCPRA12B-C30 | M23-MSNCPRA12B-A30 |
| 16A | 3m | solder | M23-MSSPRA16A-C30 | M23-MSSPRA16A-A30 | M23-MSNPRA16A-C30 | M23-MSNPRA16A-A30 |
| | 3m | crimp | M23-MSSCPRA16A-C30 | M23-MSSCPRA16A-A30 | M23-MSNCPRA16A-C30 | M23-MSNCPRA16A-A30 |
| 17A | 3m | solder | M23-MSSPRA17A-C30 | M23-MSSPRA17A-A30 | M23-MSNPRA17A-C30 | M23-MSNPRA17A-A30 |
| | 3m | crimp | M23-MSSCPRA17A-C30 | M23-MSSCPRA17A-A30 | M23-MSNCPRA17A-C30 | M23-MSNCPRA17A-A30 |
| 17B | 3m | solder | M23-MSSPRA17B-C30 | M23-MSSPRA17B-A30 | M23-MSNPRA17B-C30 | M23-MSNPRA17B-A30 |
| | 3m | crimp | M23-MSSCPRA17B-C30 | M23-MSSCPRA17B-A30 | M23-MSNCPRA17B-C30 | M23-MSNCPRA17B-A30 |
| 19A | 3m | solder | M23-MSSPRA19A-C30 | M23-MSSPRA19A-A30 | M23-MSNPRA19A-C30 | M23-MSNPRA19A-A30 |
| | 3m | crimp | M23-MSSCPRA19A-C30 | M23-MSSCPRA19A-A30 | M23-MSNCPRA19A-C30 | M23-MSNCPRA19A-A30 |

# M23 Signal

## M23 Right Angle Connector, Molded Cable, Male, Shielded, Coupling screw/nut

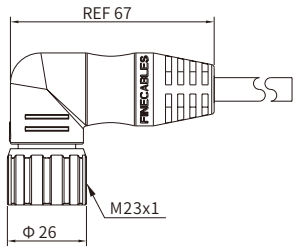
Coupling screw

CE RoHS IP68




Coupling nut

CE RoHS IP68




## Specifications

| Contacts | 6A | 7A | 9A | 9B | 9C | 12A | 12B | 16A | 17A | 17B | 19A |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Pin layout(Male) | | | | | | | | | | | |
| Connector overmold | TPU | | | | | | | | | | |
| Connector insert | PA | | | | | | | | | | |
| Connector contacts | Brass with gold plated | | | | | | | | | | |
| Coupling nut/screw | Brass with nickel plated | | | | | | | | | | |
| Seal/O-ring | FKM or NBR | | | | | | | | | | |
| Mating Endurance | >800 | | | | | | | | | | |
| Insulation resistance | ⩾100MΩ | | | | | | | | | | |
| Contact resistance | ⩽5mΩ | | | | | | | | | | |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | | | | | | | | | | |
| Shielding | Available | | | | | | | | | | |
| IP rating | IP67, IP68 in locked condition | | | | | | | | | | |
| Cable OD range | 2.0~13mm | | | | | | | | | | |
| Number of positions | 6,7 | 9(8+1)/(6+3) | | | | 12 | | 16 | 17 | 19(16+3) | |
| Contacts | 6,7 | 8 / 6 | 1 / 3 | | | 12 | | 16 | 17 | 16 | 3 |
| Contact OD(mm) | 2.0(14AWG) | 1.0(18AWG) | 2.0(14AWG) | | | 1.0(18AWG) | | 1.0(18AWG) | 1.0(18AWG) | 1.0(18AWG) | 1.5(16AWG) |
| Rated current @ 20°C(A) | 20 | 8 | 20 | | | 8 | | 8 | 8 | 8 | 10 |
| Rated Voltage(V) | 300 | 300 | 300 | | | 160 | | 160 | 160 | 160 | 160 |
| Impulse voltage(V) | 2500 | 2500 | 2500 | | | 1500 | | 1500 | 1500 | 1500 | 1500 |
| Overvoltage category | II | | | | | | | | | | |
| Pollution Degree | III | | | | | | | | | | |
| Default wire colors | Refer to page 509 | | | | | | | | | | |

## Part Number

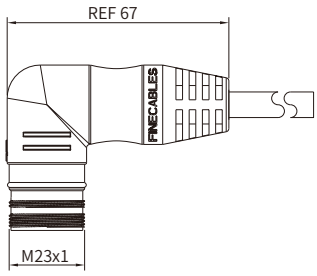
| Pins | Cable length | Connection Type | Coupling screw | | Coupling nut | |
|---|---|---|---|---|---|---|
| | | | PVC | PUR | PVC | PUR |
| 6A | 3m | solder | M23-MSSSPRA06A-C30 | M23-MSSSPRA06A-A30 | M23-MSNSPRA06A-C30 | M23-MSNSPRA06A-A30 |
| | 3m | crimp | M23-MSSSCPRA06A-C30 | M23-MSSSCPRA06A-A30 | M23-MSNSCPRA06A-C30 | M23-MSNSCPRA06A-A30 |
| 7A | 3m | solder | M23-MSSSPRA07A-C30 | M23-MSSSPRA07A-A30 | M23-MSNSPRA07A-C30 | M23-MSNSPRA07A-A30 |
| | 3m | crimp | M23-MSSSCPRA07A-C30 | M23-MSSSCPRA07A-A30 | M23-MSNSCPRA07A-C30 | M23-MSNSCPRA07A-A30 |
| 9A | 3m | solder | M23-MSSSPRA09A-C30 | M23-MSSSPRA09A-A30 | M23-MSNSPRA09A-C30 | M23-MSNSPRA09A-A30 |
| | 3m | crimp | M23-MSSSCPRA09A-C30 | M23-MSSSCPRA09A-A30 | M23-MSNSCPRA09A-C30 | M23-MSNSCPRA09A-A30 |
| 9B | 3m | solder | M23-MSSSPRA09B-C30 | M23-MSSSPRA09B-A30 | M23-MSNSPRA09B-C30 | M23-MSNSPRA09B-A30 |
| | 3m | crimp | M23-MSSSCPRA09B-C30 | M23-MSSSCPRA09B-A30 | M23-MSNSCPRA09B-C30 | M23-MSNSCPRA09B-A30 |
| 9C | 3m | solder | M23-MSSSPRA09C-C30 | M23-MSSSPRA09C-A30 | M23-MSNSPRA09C-C30 | M23-MSNSPRA09C-A30 |
| | 3m | crimp | M23-MSSSCPRA09C-C30 | M23-MSSSCPRA09C-A30 | M23-MSNSCPRA09C-C30 | M23-MSNSCPRA09C-A30 |
| 12A | 3m | solder | M23-MSSSPRA12A-C30 | M23-MSSSPRA12A-A30 | M23-MSNSPRA12A-C30 | M23-MSNSPRA12A-A30 |
| | 3m | crimp | M23-MSSSCPRA12A-C30 | M23-MSSSCPRA12A-A30 | M23-MSNSCPRA12A-C30 | M23-MSNSCPRA12A-A30 |
| 12B | 3m | solder | M23-MSSSPRA12B-C30 | M23-MSSSPRA12B-A30 | M23-MSNSPRA12B-C30 | M23-MSNSPRA12B-A30 |
| | 3m | crimp | M23-MSSSCPRA12B-C30 | M23-MSSSCPRA12B-A30 | M23-MSNSCPRA12B-C30 | M23-MSNSCPRA12B-A30 |
| 16A | 3m | solder | M23-MSSSPRA16A-C30 | M23-MSSSPRA16A-A30 | M23-MSNSPRA16A-C30 | M23-MSNSPRA16A-A30 |
| | 3m | crimp | M23-MSSSCPRA16A-C30 | M23-MSSSCPRA16A-A30 | M23-MSNSCPRA16A-C30 | M23-MSNSCPRA16A-A30 |
| 17A | 3m | solder | M23-MSSSPRA17A-C30 | M23-MSSSPRA17A-A30 | M23-MSNSPRA17A-C30 | M23-MSNSPRA17A-A30 |
| | 3m | crimp | M23-MSSSCPRA17A-C30 | M23-MSSSCPRA17A-A30 | M23-MSNSCPRA17A-C30 | M23-MSNSCPRA17A-A30 |
| 17B | 3m | solder | M23-MSSSPRA17B-C30 | M23-MSSSPRA17B-A30 | M23-MSNSPRA17B-C30 | M23-MSNSPRA17B-A30 |
| | 3m | crimp | M23-MSSSCPRA17B-C30 | M23-MSSSCPRA17B-A30 | M23-MSNSCPRA17B-C30 | M23-MSNSCPRA17B-A30 |
| 19A | 3m | solder | M23-MSSSPRA19A-C30 | M23-MSSSPRA19A-A30 | M23-MSNSPRA19A-C30 | M23-MSNSPRA19A-A30 |
| | 3m | crimp | M23-MSSSCPRA19A-C30 | M23-MSSSCPRA19A-A30 | M23-MSNSCPRA19A-C30 | M23-MSNSCPRA19A-A30 |

# M23 Signal

## M23 Right Angle Connector, Molded Cable, Female Unshielded, Coupling screw/nut

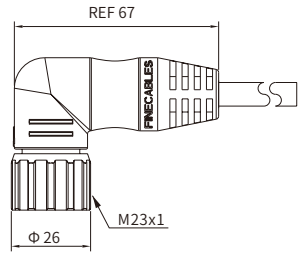
Coupling screw

CE RoHS IP68




Coupling nut

CE RoHS IP68




## Specifications

| Contacts | 6A | 7A | 9A | 9B | 9C | 12A | 12B | 16A | 17A | 17B | 19A |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Pin layout(Female) | | | | | | | | | | | |
| Connector overmold | TPU | | | | | | | | | | |
| Connector insert | PA | | | | | | | | | | |
| Connector contacts | Brass with gold plated | | | | | | | | | | |
| Coupling nut/screw | Brass with nickel plated | | | | | | | | | | |
| Seal/O-ring | FKM or NBR | | | | | | | | | | |
| Mating Endurance | >800 | | | | | | | | | | |
| Insulation resistance | ⩾100MΩ | | | | | | | | | | |
| Contact resistance | ⩽5mΩ | | | | | | | | | | |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | | | | | | | | | | |
| Shielding | Unavailable | | | | | | | | | | |
| IP rating | IP67, IP68 in locked condition | | | | | | | | | | |
| Cable OD range | 2.0~13mm | | | | | | | | | | |
| Number of positions | 6,7 | 9(8+1)/(6+3) | | | | 12 | | 16 | 17 | 19(16+3) | |
| Contacts | 6,7 | 8 / 6 | | 1 / 3 | | 12 | | 16 | 17 | 16 | 3 |
| Contact OD(mm) | 2.0(14AWG) | 1.0(18AWG) | | 2.0(14AWG) | | 1.0(18AWG) | | 1.0(18AWG) | 1.0(18AWG) | 1.0(18AWG) | 1.5(16AWG) |
| Rated current @ 20°C(A) | 20 | 8 | | 20 | | 8 | | 8 | 8 | 8 | 10 |
| Rated Voltage(V) | 300 | 300 | | 300 | | 160 | | 160 | 160 | 160 | 160 |
| Impulse voltage(V) | 2500 | 2500 | | 2500 | | 1500 | | 1500 | 1500 | 1500 | 1500 |
| Overvoltage category | II | | | | | | | | | | |
| Pollution Degree | III | | | | | | | | | | |
| Default wire colors | Refer to page 509 | | | | | | | | | | |

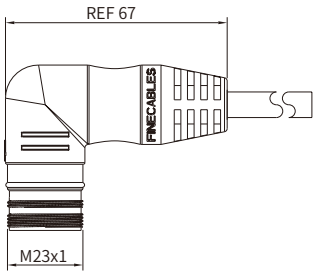
## Part Number

| Pins | Cable length | Connection Type | Coupling screw | | Coupling nut | |
|---|---|---|---|---|---|---|
| | | | PVC | PUR | PVC | PUR |
| 6A | 3m | solder | M23-MSSSRA06A-C30 | M23-MSSSRA06A-A30 | M23-MSNSRA06A-C30 | M23-MSNSRA06A-A30 |
| | 3m | crimp | M23-MSSCSRA06A-C30 | M23-MSSCSRA06A-A30 | M23-MSNCSRA06A-C30 | M23-MSNCSRA06A-A30 |
| 7A | 3m | solder | M23-MSSSRA07A-C30 | M23-MSSSRA07A-A30 | M23-MSNSRA07A-C30 | M23-MSNSRA07A-A30 |
| | 3m | crimp | M23-MSSCSRA07A-C30 | M23-MSSCSRA07A-A30 | M23-MSNCSRA07A-C30 | M23-MSNCSRA07A-A30 |
| 9A | 3m | solder | M23-MSSSRA09A-C30 | M23-MSSSRA09A-A30 | M23-MSNSRA09A-C30 | M23-MSNSRA09A-A30 |
| | 3m | crimp | M23-MSSCSRA09A-C30 | M23-MSSCSRA09A-A30 | M23-MSNCSRA09A-C30 | M23-MSNCSRA09A-A30 |
| 9B | 3m | solder | M23-MSSSRA09B-C30 | M23-MSSSRA09B-A30 | M23-MSNSRA09B-C30 | M23-MSNSRA09B-A30 |
| | 3m | crimp | M23-MSSCSRA09B-C30 | M23-MSSCSRA09B-A30 | M23-MSNCSRA09B-C30 | M23-MSNCSRA09B-A30 |
| 9C | 3m | solder | M23-MSSSRA09C-C30 | M23-MSSSRA09C-A30 | M23-MSNSRA09C-C30 | M23-MSNSRA09C-A30 |
| | 3m | crimp | M23-MSSSSRA09C-C30 | M23-MSSSSRA09C-A30 | M23-MSNCSRA09C-C30 | M23-MSNCSRA09C-A30 |
| 12A | 3m | solder | M23-MSSSRA12A-C30 | M23-MSSSRA12A-A30 | M23-MSNSRA12A-C30 | M23-MSNSRA12A-A30 |
| | 3m | crimp | M23-MSSSSRA12A-C30 | M23-MSSSSRA12A-A30 | M23-MSNCSRA12A-C30 | M23-MSNCSRA12A-A30 |
| 12B | 3m | solder | M23-MSSSRA12B-C30 | M23-MSSSRA12B-A30 | M23-MSNSRA12B-C30 | M23-MSNSRA12B-A30 |
| | 3m | crimp | M23-MSSSSRA12B-C30 | M23-MSSSSRA12B-A30 | M23-MSNCSRA12B-C30 | M23-MSNCSRA12B-A30 |
| 16A | 3m | solder | M23-MSSSRA16A-C30 | M23-MSSSRA16A-A30 | M23-MSNSRA16A-C30 | M23-MSNSRA16A-A30 |
| | 3m | crimp | M23-MSSCSRA16A-C30 | M23-MSSCSRA16A-A30 | M23-MSNCSRA16A-C30 | M23-MSNCSRA16A-A30 |
| 17A | 3m | solder | M23-MSSSRA17A-C30 | M23-MSSSRA17A-A30 | M23-MSNSRA17A-C30 | M23-MSNSRA17A-A30 |
| | 3m | crimp | M23-MSSCSRA17A-C30 | M23-MSSCSRA17A-A30 | M23-MSNCSRA17A-C30 | M23-MSNCSRA17A-A30 |
| 17B | 3m | solder | M23-MSSSRA17B-C30 | M23-MSSSRA17B-A30 | M23-MSNSRA17B-C30 | M23-MSNSRA17B-A30 |
| | 3m | crimp | M23-MSSCSRA17B-C30 | M23-MSSCSRA17B-A30 | M23-MSNCSRA17B-C30 | M23-MSNCSRA17B-A30 |
| 19A | 3m | solder | M23-MSSSRA19A-C30 | M23-MSSSRA19A-A30 | M23-MSNSRA19A-C30 | M23-MSNSRA19A-A30 |
| | 3m | crimp | M23-MSSCSRA19A-C30 | M23-MSSCSRA19A-A30 | M23-MSNCSRA19A-C30 | M23-MSNCSRA19A-A30 |

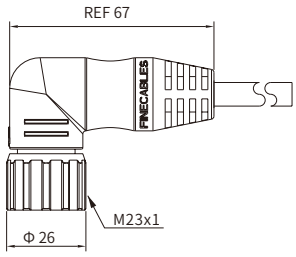
# M23 Signal

## M23 Right Angle Connector, Molded Cable, Female, Shielded, Coupling screw/nut

Coupling screw




Coupling nut




## Specifications

| Contacts | 6A | 7A | 9A | 9B | 9C | 12A | 12B | 16A | 17A | 17B | 19A |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Pin layout(Female) | | | | | | | | | | | |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Connector overmold | TPU | | | | | | | | | | |
| Connector insert | PA | | | | | | | | | | |
| Connector contacts | Brass with gold plated | | | | | | | | | | |
| Coupling nut/screw | Brass with nickel plated | | | | | | | | | | |
| Seal/O-ring | FKM or NBR | | | | | | | | | | |
| Mating Endurance | >800 | | | | | | | | | | |
| Insulation resistance | ⩾100MΩ | | | | | | | | | | |
| Contact resistance | ⩽5mΩ | | | | | | | | | | |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | | | | | | | | | | |
| Shielding | Available | | | | | | | | | | |
| IP rating | IP67, IP68 in locked condition | | | | | | | | | | |
| Cable OD range | 2.0~13mm | | | | | | | | | | |
| Number of positions | 6,7 | 9(8+1)/(6+3) | | | | 12 | | 16 | 17 | 19(16+3) | |
| Contacts | 6,7 | 8 / 6 | 1 / 3 | | | 12 | | 16 | 17 | 16 | 3 |
| Contact OD(mm) | 2.0(14AWG) | 1.0(18AWG) | 2.0(14AWG) | | | 1.0(18AWG) | | 1.0(18AWG) | 1.0(18AWG) | 1.0(18AWG) | 1.5(16AWG) |
| Rated current @ 20°C(A) | 20 | 8 | 20 | | | 8 | | 8 | 8 | 8 | 10 |
| Rated Voltage(V) | 300 | 300 | 300 | | | 160 | | 160 | 160 | 160 | 160 |
| Impulse voltage(V) | 2500 | 2500 | 2500 | | | 1500 | | 1500 | 1500 | 1500 | 1500 |
| Overvoltage category | II | | | | | | | | | | |
| Pollution Degree | III | | | | | | | | | | |
| Default wire colors | Refer to page 509 | | | | | | | | | | |

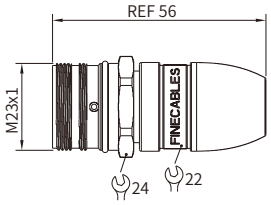
## Part Number

| Pins | Cable length | Connection Type | Coupling screw | | Coupling nut | |
|---|---|---|---|---|---|---|
| | | | PVC | PUR | PVC | PUR |
| 6A | 3m | solder | M23-MSSSSRA06A-C30 | M23-MSSSSRA06A-A30 | M23-MSNSSRA06A-C30 | M23-MSNSSRA06A-A30 |
| | 3m | crimp | M23-MSSSCSRA06A-C30 | M23-MSSSCSRA06A-A30 | M23-MSNSCSRA06A-C30 | M23-MSNSCSRA06A-A30 |
| 7A | 3m | solder | M23-MSSSSRA07A-C30 | M23-MSSSSRA07A-A30 | M23-MSNSSRA07A-C30 | M23-MSNSSRA07A-A30 |
| | 3m | crimp | M23-MSSSCSRA07A-C30 | M23-MSSSCSRA07A-A30 | M23-MSNSCSRA07A-C30 | M23-MSNSCSRA07A-A30 |
| 9A | 3m | solder | M23-MSSSSRA09A-C30 | M23-MSSSSRA09A-A30 | M23-MSNSSRA09A-C30 | M23-MSNSSRA09A-A30 |
| | 3m | crimp | M23-MSSSCSRA09A-C30 | M23-MSSSCSRA09A-A30 | M23-MSNSCSRA09A-C30 | M23-MSNSCSRA09A-A30 |
| 9B | 3m | solder | M23-MSSSSRA09B-C30 | M23-MSSSSRA09B-A30 | M23-MSNSSRA09B-C30 | M23-MSNSSRA09B-A30 |
| | 3m | crimp | M23-MSSSCSRA09B-C30 | M23-MSSSCSRA09B-A30 | M23-MSNSCSRA09B-C30 | M23-MSNSCSRA09B-A30 |
| 9C | 3m | solder | M23-MSSSSRA09C-C30 | M23-MSSSSRA09C-A30 | M23-MSNSSRA09C-C30 | M23-MSNSSRA09C-A30 |
| | 3m | crimp | M23-MSSSCSRA09C-C30 | M23-MSSSCSRA09C-A30 | M23-MSNSCSRA09C-C30 | M23-MSNSCSRA09C-A30 |
| 12A | 3m | solder | M23-MSSSSRA12A-C30 | M23-MSSSSRA12A-A30 | M23-MSNSSRA12A-C30 | M23-MSNSSRA12A-A30 |
| | 3m | crimp | M23-MSSSCSRA12A-C30 | M23-MSSSCSRA12A-A30 | M23-MSNSCSRA12A-C30 | M23-MSNSCSRA12A-A30 |
| 12B | 3m | solder | M23-MSSSSRA12B-C30 | M23-MSSSSRA12B-A30 | M23-MSNSSRA12B-C30 | M23-MSNSSRA12B-A30 |
| | 3m | crimp | M23-MSSSCSRA12B-C30 | M23-MSSSCSRA12B-A30 | M23-MSNSCSRA12B-C30 | M23-MSNSCSRA12B-A30 |
| 16A | 3m | solder | M23-MSSSSRA16A-C30 | M23-MSSSSRA16A-A30 | M23-MSNSSRA16A-C30 | M23-MSNSSRA16A-A30 |
| | 3m | crimp | M23-MSSSCSRA16A-C30 | M23-MSSSCSRA16A-A30 | M23-MSNSCSRA16A-C30 | M23-MSNSCSRA16A-A30 |
| 17A | 3m | solder | M23-MSSSSRA17A-C30 | M23-MSSSSRA17A-A30 | M23-MSNSSRA17A-C30 | M23-MSNSSRA17A-A30 |
| | 3m | crimp | M23-MSSSCSRA17A-C30 | M23-MSSSCSRA17A-A30 | M23-MSNSCSRA17A-C30 | M23-MSNSCSRA17A-A30 |
| 17B | 3m | solder | M23-MSSSSRA17B-C30 | M23-MSSSSRA17B-A30 | M23-MSNSSRA17B-C30 | M23-MSNSSRA17B-A30 |
| | 3m | crimp | M23-MSSSCSRA17B-C30 | M23-MSSSCSRA17B-A30 | M23-MSNSCSRA17B-C30 | M23-MSNSCSRA17B-A30 |
| 19A | 3m | solder | M23-MSSSSRA19A-C30 | M23-MSSSSRA19A-A30 | M23-MSNSSRA19A-C30 | M23-MSNSSRA19A-A30 |
| | 3m | crimp | M23-MSSSCSRA19A-C30 | M23-MSSSCSRA19A-A30 | M23-MSNSCSRA19A-C30 | M23-MSNSCSRA19A-A30 |

# M23 Signal

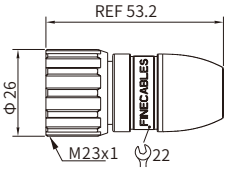
## M23 Straight Connector, Assembly, Male, Shielded, Coupling screw/nut

Coupling screw




CE RoHS IP68

Coupling nut




CE RoHS IP68

## Specifications

| Contacts | 6A | 7A | 9A | 9B | 9C | 12A | 12B | 16A | 17A | 17B | 19A |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Certification | c UL us ECBT2(ECBT8).E473386 | | | | | | | | | | |
| Pin layout(Male) | | | | | | | | | | | |
| Connector insert | PA | | | | | | | | | | |
| Connector contacts | Brass with gold plated | | | | | | | | | | |
| Coupling nut/screw | Brass with nickel plated | | | | | | | | | | |
| Connector body | Brass/Zinc alloy with nickel plated | | | | | | | | | | |
| Seal/O-ring | FKM or NBR | | | | | | | | | | |
| Mating Endurance | >800 | | | | | | | | | | |
| Insulation resistance | ≥100MΩ | | | | | | | | | | |
| Contact resistance | ≤5mΩ | | | | | | | | | | |
| Ambient temperature | -40°C ~ +125°C | | | | | | | | | | |
| Shielding | Available | | | | | | | | | | |
| IP rating | IP67, IP68 in locked condition | | | | | | | | | | |
| Cable OD range | 2.0~11.4mm | | | | | | | | | | |
| Assembly Instruction | Refer to page 510~512 | | | | | | | | | | |
| Number of positions | 6,7 | | 9(8+1)/(6+3) | | | 12 | | 16 | 17 | | 19(16+3) |
| Contacts | 6,7 | | 8 / 6 | | 1 / 3 | 12 | | 16 | 17 | | 16 / 3 |
| Contact OD(mm) | 2.0(14AWG) | | 1.0(18AWG) | | 2.0(14AWG) | 1.0(18AWG) | | 1.0(18AWG) | 1.0(18AWG) | | 1.0(18AWG) / 1.5(16AWG) |
| Rated current @ 20°C(A) | 20 | | 8 | | 20 | 8 | | 8 | 8 | | 8 / 10 |
| Rated Voltage(V) | 300 | | 300 | | 300 | 160 | | 160 | 160 | | 160 / 160 |
| Impulse voltage(V) | 2500 | | 2500 | | 2500 | 1500 | | 1500 | 1500 | | 1500 / 1500 |
| Overvoltage category | II | | | | | | | | | | |
| Pollution Degree | III | | | | | | | | | | |

## Part Number

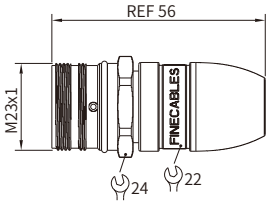
Note: XX for cable OD. 01: 5.0-6.0; 02: 6.0-7.0; 03: 7.0-8.0; 04: 8.0-9.0; 05: 9.0-10.0; 06: 10.0-11.0

| Pins | Coupling screw | | Coupling nut | |
|---|---|---|---|---|
| | Solder | Crimp | Solder | Crimp |
| 6A | M23-SSSPST06A-XX | M23-SSSCPST06A-XX | M23-SNSPST06A-XX | M23-SNSCPST06A-XX |
| 7A | M23-SSSPST07A-XX | M23-SSSCPST07A-XX | M23-SNSPST07A-XX | M23-SNSCPST07A-XX |
| 9A | M23-SSSPST09A-XX | M23-SSSCPST09A-XX | M23-SNSPST09A-XX | M23-SNSCPST09A-XX |
| 9B | M23-SSSPST09B-XX | M23-SSSCPST09B-XX | M23-SNSPST09B-XX | M23-SNSCPST09B-XX |
| 9C | M23-SSSPST09C-XX | M23-SSSCPST09C-XX | M23-SNSPST09C-XX | M23-SNSCPST09C-XX |
| 12A | M23-SSSPST12A-XX | M23-SSSCPST12A-XX | M23-SNSPST12A-XX | M23-SNSCPST12A-XX |
| 12B | M23-SSSPST12B-XX | M23-SSSCPST12B-XX | M23-SNSPST12B-XX | M23-SNSCPST12B-XX |
| 16A | M23-SSSPST16A-XX | M23-SSSCPST16A-XX | M23-SNSPST16A-XX | M23-SNSCPST16A-XX |
| 17A | M23-SSSPST17A-XX | M23-SSSCPST17A-XX | M23-SNSPST17A-XX | M23-SNSCPST17A-XX |
| 17B | M23-SSSPST17B-XX | M23-SSSCPST17B-XX | M23-SNSPST17B-XX | M23-SNSCPST17B-XX |
| 19A | M23-SSSPST19A-XX | M23-SSSCPST19A-XX | M23-SNSPST19A-XX | M23-SNSCPST19A-XX |

# M23 Signal

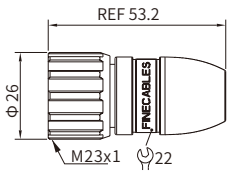
## M23 Straight Connector, Assembly, Female, Coupling screw/nut

Coupling screw



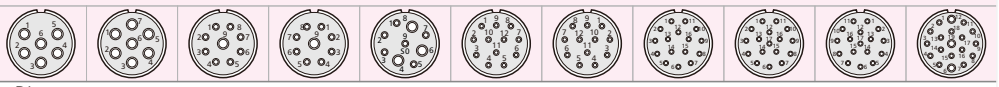

CE RoHS

Coupling nut




CE RoHS

## Specifications

| Contacts | 6A | 7A | 9A | 9B | 9C | 12A | 12B | 16A | 17A | 17B | 19A |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Certification | c UL us ECBT2(ECBT8).E473386 | | | | | | | | | | |
| Pin layout(Female) |  | | | | | | | | | | |
| Connector insert | PA | | | | | | | | | | |
| Connector contacts | Brass with gold plated | | | | | | | | | | |
| Coupling nut/screw | Brass with nickel plated | | | | | | | | | | |
| Connector body | Brass/Zinc alloy with nickel plated | | | | | | | | | | |
| Seal/O-ring | FKM or NBR | | | | | | | | | | |
| Mating Endurance | >800 | | | | | | | | | | |
| Insulation resistance | ≥100MΩ | | | | | | | | | | |
| Contact resistance | ≤5mΩ | | | | | | | | | | |
| Ambient temperature | -40°C ~ +125°C | | | | | | | | | | |
| Shielding | Available | | | | | | | | | | |
| IP rating | IP67, IP68 in locked condition | | | | | | | | | | |
| Cable OD range | 2.0~11.4mm | | | | | | | | | | |
| Assembly Instruction | Refer to page 510~512 | | | | | | | | | | |
| Number of positions | 6,7 | | 9(8+1)//(6+3) | | | 12 | | 16 | 17 | 19(16+3) | |
| Contacts | 6,7 | | 8 / 6 | 1 / 3 | | 12 | | 16 | 17 | 16 | 3 |
| Contact OD(mm) | 2.0(14AWG) | | 1.0(18AWG) | 2.0(14AWG) | | 1.0(18AWG) | | 1.0(18AWG) | 1.0(18AWG) | 1.0(18AWG) | 1.5(16AWG) |
| Rated current @ 20°C(A) | 20 | | 8 | 20 | | 8 | | 8 | 8 | 8 | 10 |
| Rated Voltage(V) | 300 | | 300 | 300 | | 160 | | 160 | 160 | 160 | 160 |
| Impulse voltage(V) | 2500 | | 2500 | 2500 | | 1500 | | 1500 | 1500 | 1500 | 1500 |
| Overvoltage category | II | | | | | | | | | | |
| Pollution Degree | III | | | | | | | | | | |

## Part Number

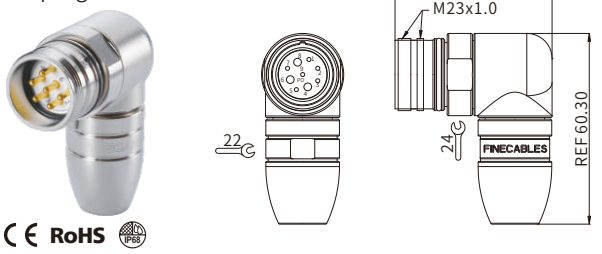
Note: XX for cable OD. 01: 5.0-6.0; 02: 6.0-7.0; 03: 7.0-8.0; 04: 8.0-9.0; 05: 9.0-10.0; 06: 10.0-11.0

| Pins | Coupling screw | | Coupling nut | |
|---|---|---|---|---|
| | Solder | Crimp | Solder | Crimp |
| 6A | M23-SSSST06A-XX | M23-SSSCSST06A-XX | M23-SNSST06A-XX | M23-SNSCSST06A-XX |
| 7A | M23-SSSST07A-XX | M23-SSSCSST07A-XX | M23-SNSST07A-XX | M23-SNSCSST07A-XX |
| 9A | M23-SSSST09A-XX | M23-SSSCSST09A-XX | M23-SNSST09A-XX | M23-SNSCSST09A-XX |
| 9B | M23-SSSST09B-XX | M23-SSSCSST09B-XX | M23-SNSST09B-XX | M23-SNSCSST09B-XX |
| 9C | M23-SSSST09C-XX | M23-SSSCSST09C-XX | M23-SNSST09C-XX | M23-SNSCSST09C-XX |
| 12A | M23-SSSST12A-XX | M23-SSSCSST12A-XX | M23-SNSST12A-XX | M23-SNSCSST12A-XX |
| 12B | M23-SSSST12B-XX | M23-SSSCSST12B-XX | M23-SNSST12B-XX | M23-SNSCSST12B-XX |
| 16A | M23-SSSST16A-XX | M23-SSSCSST16A-XX | M23-SNSST16A-XX | M23-SNSCSST16A-XX |
| 17A | M23-SSSST17A-XX | M23-SSSCSST17A-XX | M23-SNSST17A-XX | M23-SNSCSST17A-XX |
| 17B | M23-SSSST17B-XX | M23-SSSCSST17B-XX | M23-SNSST17B-XX | M23-SNSCSST17B-XX |
| 19A | M23-SSSST19A-XX | M23-SSSCSST19A-XX | M23-SNSST19A-XX | M23-SNSCSST19A-XX |

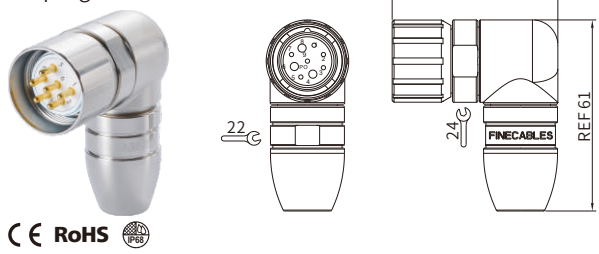
# M23 Signal

## M23 Right Angle Connector, Assembly, Coupling screw

Coupling screw




Coupling nut




## Specifications

| Contacts | 6A | 7A | 9A | 9B | 9C | 12A | 12B | 16A | 17A | 17B | 19A |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Certification | cULus ECBT2(ECBT8).E473386 | | | | | | | | | | |
| Pin layout(Male) | | | | | | | | | | | |
| Connector insert | PA | | | | | | | | | | |
| Connector contacts | Brass with gold plated | | | | | | | | | | |
| Coupling nut/screw | Brass with nickel plated | | | | | | | | | | |
| Connector body | Zinc alloy with nickel plated | | | | | | | | | | |
| Seal/O-ring | FKM or NBR | | | | | | | | | | |
| Mating Endurance | >800 | | | | | | | | | | |
| Insulation resistance | ≥100MΩ | | | | | | | | | | |
| Contact resistance | ≤5mΩ | | | | | | | | | | |
| Ambient temperature | -40°C ~ +125°C | | | | | | | | | | |
| Shielding | Available | | | | | | | | | | |
| IP rating | IP67, IP68 in locked condition | | | | | | | | | | |
| Cable OD range | 2.0~11.4mm | | | | | | | | | | |
| Assembly Instruction | Refer to page 512~513 | | | | | | | | | | |
| Number of positions | 6,7 | | 9(8+1)/(6+3) | | | 12 | | 16 | 17 | | 19(16+3) |
| Contacts | 6,7 | | 8 / 6 | | 1 / 3 | 12 | | 16 | 17 | 16 | 3 |
| Contact OD(mm) | 2.0(14AWG) | | 1.0(18AWG) | | 2.0(14AWG) | 1.0(18AWG) | | 1.0(18AWG) | 1.0(18AWG) | 1.0(18AWG) | 1.5(16AWG) |
| Rated current @ 20°C(A) | 20 | | 8 | | 20 | 8 | | 8 | 8 | 8 | 10 |
| Rated Voltage(V) | 300 | | 300 | | 300 | 160 | | 160 | 160 | 160 | 160 |
| Impulse voltage(V) | 2500 | | 2500 | | 2500 | 1500 | | 1500 | 1500 | 1500 | 1500 |
| Overvoltage category | II | | | | | | | | | | |
| Pollution Degree | III | | | | | | | | | | |

## Part Number

Note: *XX* for cable OD. 01: 5.0-6.0; 02: 6.0-7.0; 03: 7.0-8.0; 04: 8.0-9.0; 05: 9.0-10.0; 06: 10.0-11.0

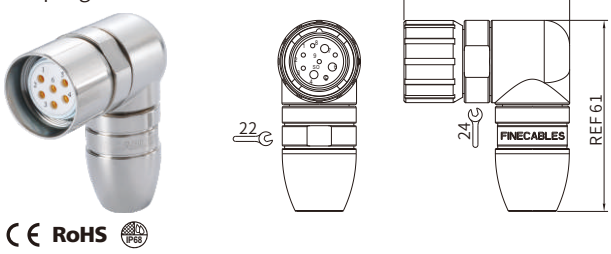
| Pins | Coupling screw | | Coupling nut | |
|---|---|---|---|---|
| | Solder | Crimp | Solder | Crimp |
| 6A | M23-SSSPRA06A-*XX* | M23-SSSCPRA06A-*XX* | M23-SNSPRA06A-*XX* | M23-SNSCPRA06A-*XX* |
| 7A | M23-SSSPRA07A-*XX* | M23-SSSCPRA07A-*XX* | M23-SNSPRA07A-*XX* | M23-SNSCPRA07A-*XX* |
| 9A | M23-SSSPRA09A-*XX* | M23-SSSCPRA09A-*XX* | M23-SNSPRA09A-*XX* | M23-SNSCPRA09A-*XX* |
| 9B | M23-SSSPRA09B-*XX* | M23-SSSCPRA09B-*XX* | M23-SNSPRA09B-*XX* | M23-SNSCPRA09B-*XX* |
| 9C | M23-SSSPRA09C-*XX* | M23-SSSCPRA09C-*XX* | M23-SNSPRA09C-*XX* | M23-SNSCPRA09C-*XX* |
| 12A | M23-SSSPRA12A-*XX* | M23-SSSCPRA12A-*XX* | M23-SNSPRA12A-*XX* | M23-SNSCPRA12A-*XX* |
| 12B | M23-SSSPRA12B-*XX* | M23-SSSCPRA12B-*XX* | M23-SNSPRA12B-*XX* | M23-SNSCPRA12B-*XX* |
| 16A | M23-SSSPRA16A-*XX* | M23-SSSCPRA16A-*XX* | M23-SNSPRA16A-*XX* | M23-SNSCPRA16A-*XX* |
| 17A | M23-SSSPRA17A-*XX* | M23-SSSCPRA17A-*XX* | M23-SNSPRA17A-*XX* | M23-SNSCPRA17A-*XX* |
| 17B | M23-SSSPRA17B-*XX* | M23-SSSCPRA17B-*XX* | M23-SNSPRA17B-*XX* | M23-SNSCPRA17B-*XX* |
| 19A | M23-SSSPRA19A-*XX* | M23-SSSCPRA19A-*XX* | M23-SNSPRA19A-*XX* | M23-SNSCPRA19A-*XX* |

# M23 Signal

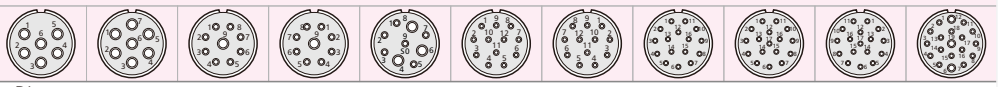
## M23 Right Angle Connector, Assembly, Coupling nut

Coupling screw

Coupling nut




## Specifications

| Contacts | 6A | 7A | 9A | 9B | 9C | 12A | 12B | 16A | 17A | 17B | 19A |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Certification | c UL us ECBT2(ECBT8).E473386 | | | | | | | | | | |
| Pin layout(Female) |  | | | | | | | | | | |
| Connector insert | PA | | | | | | | | | | |
| Connector contacts | Brass with gold plated | | | | | | | | | | |
| Coupling nut/screw | Brass with nickel plated | | | | | | | | | | |
| Connector body | Zinc alloy with nickel plated | | | | | | | | | | |
| Seal/O-ring | FKM or NBR | | | | | | | | | | |
| Mating Endurance | >800 | | | | | | | | | | |
| Insulation resistance | ≥100MΩ | | | | | | | | | | |
| Contact resistance | ≤5mΩ | | | | | | | | | | |
| Ambient temperature | -40°C ~ +125°C | | | | | | | | | | |
| Shielding | Available | | | | | | | | | | |
| IP rating | IP67, IP68 in locked condition | | | | | | | | | | |
| Cable OD range | 2.0~11.4mm | | | | | | | | | | |
| Assembly Instruction | Refer to page 512~513 | | | | | | | | | | |
| Number of positions | 6,7 | | 9(8+1)//(6+3) | | | 12 | | 16 | 17 | 19(16+3) | |
| Contacts | 6,7 | | 8 / 6 | 1 / 3 | | 12 | | 16 | 17 | 16 | 3 |
| Contact OD(mm) | 2.0(14AWG) | | 1.0(18AWG) | 2.0(14AWG) | | 1.0(18AWG) | | 1.0(18AWG) | 1.0(18AWG) | 1.0(18AWG) | 1.5(16AWG) |
| Rated current @ 20°C(A) | 20 | | 8 | 20 | | 8 | | 8 | 8 | 8 | 10 |
| Rated Voltage(V) | 300 | | 300 | 300 | | 160 | | 160 | 160 | 160 | 160 |
| Impulse voltage(V) | 2500 | | 2500 | 2500 | | 1500 | | 1500 | 1500 | 1500 | 1500 |
| Overvoltage category | II | | | | | | | | | | |
| Pollution Degree | III | | | | | | | | | | |

## Part Number

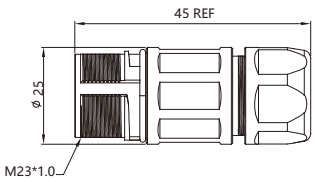
Note: XX for cable OD. 01: 5.0-6.0; 02: 6.0-7.0; 03: 7.0-8.0; 04: 8.0-9.0; 05: 9.0-10.0; 06: 10.0-11.0

| Pins | Coupling screw | | Coupling nut | |
|---|---|---|---|---|
| | Solder | Crimp | Solder | Crimp |
| 6A | M23-SSSSRA06A-XX | M23-SSSCSRA06A-XX | M23-SNSSRA06A-XX | M23-SNSCSRA06A-XX |
| 7A | M23-SSSSRA07A-XX | M23-SSSCSRA07A-XX | M23-SNSSRA07A-XX | M23-SNSCSRA07A-XX |
| 9A | M23-SSSSRA09A-XX | M23-SSSCSRA09A-XX | M23-SNSSRA09A-XX | M23-SNSCSRA09A-XX |
| 9B | M23-SSSSRA09B-XX | M23-SSSCSRA09B-XX | M23-SNSSRA09B-XX | M23-SNSCSRA09B-XX |
| 9C | M23-SSSSRA09C-XX | M23-SSSCSRA09C-XX | M23-SNSSRA09C-XX | M23-SNSCSRA09C-XX |
| 12A | M23-SSSSRA12A-XX | M23-SSSCSRA12A-XX | M23-SNSSRA12A-XX | M23-SNSCSRA12A-XX |
| 12B | M23-SSSSRA12B-XX | M23-SSSCSRA12B-XX | M23-SNSSRA12B-XX | M23-SNSCSRA12B-XX |
| 16A | M23-SSSSRA16A-XX | M23-SSSCSRA16A-XX | M23-SNSSRA16A-XX | M23-SNSCSRA16A-XX |
| 17A | M23-SSSSRA17A-XX | M23-SSSCSRA17A-XX | M23-SNSSRA17A-XX | M23-SNSCSRA17A-XX |
| 17B | M23-SSSSRA17B-XX | M23-SSSCSRA17B-XX | M23-SNSSRA17B-XX | M23-SNSCSRA17B-XX |
| 19A | M23-SSSSRA19A-XX | M23-SSSCSRA19A-XX | M23-SNSSRA19A-XX | M23-SNSCSRA19A-XX |

# M23 Signal

## M23 Straight Connector, Field Wirable Assembly, Crimp Type, Shielded

Coupling screw




CE RoHS IP68

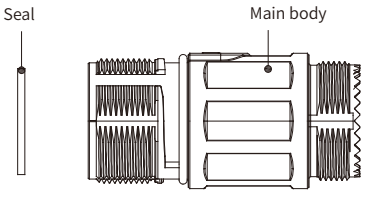
## Specifications

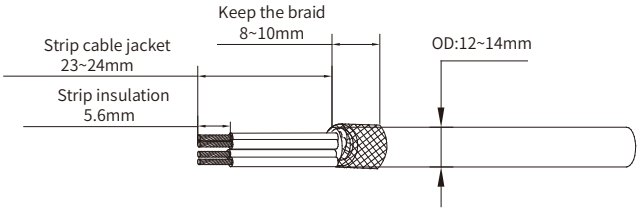
| Contacts | 6A | 7A | 9A | 9B | 9C | 12A | 12B | 16A | 17A | 17B | 19A | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pin layout(Male) | | | | | | | | | | | | |
| Connector insert | PA | | | | | | | | | | | |
| Connector contacts | Brass with gold plated | | | | | | | | | | | |
| Coupling nut/screw | Brass with nickel plated | | | | | | | | | | | |
| Connector body | Brass/Zinc alloy with nickel plated | | | | | | | | | | | |
| Seal/O-ring | FKM or NBR | | | | | | | | | | | |
| Mating Endurance | >800 | | | | | | | | | | | |
| Insulation resistance | ⩾100MΩ | | | | | | | | | | | |
| Contact resistance | ⩽5mΩ | | | | | | | | | | | |
| Ambient temperature | -40°C ~ +125°C | | | | | | | | | | | |
| Shielding | Available | | | | | | | | | | | |
| IP rating | IP67, IP68 in locked condition | | | | | | | | | | | |
| Cable range | 12~14mm | | | | | | | | | | | |
| Number of positions | 6,7 | | 9(8+1)/(6+3) | | | 12 | | 16 | 17 | | 19(16+3) | |
| Contacts | 6,7 | | 8 / 6 | | 1 / 3 | 12 | | 16 | 17 | | 16 | 3 |
| Contact OD(mm) | 2.0(14AWG) | | 1.0(18AWG) | | 2.0(14AWG) | 1.0(18AWG) | | 1.0(18AWG) | 1.0(18AWG) | | 1.0(18AWG) | 1.5(16AWG) |
| Rated current @ 20°C(A) | 20 | | 8 | | 20 | 8 | | 8 | 8 | | 8 | 10 |
| Rated Voltage(V) | 300 | | 300 | | 300 | 160 | | 160 | 160 | | 160 | 160 |
| Impulse voltage(V) | 2500 | | 2500 | | 2500 | 1500 | | 1500 | 1500 | | 1500 | 1500 |
| Overvoltage category | II | | | | | | | | | | | |
| Pollution Degree | III | | | | | | | | | | | |

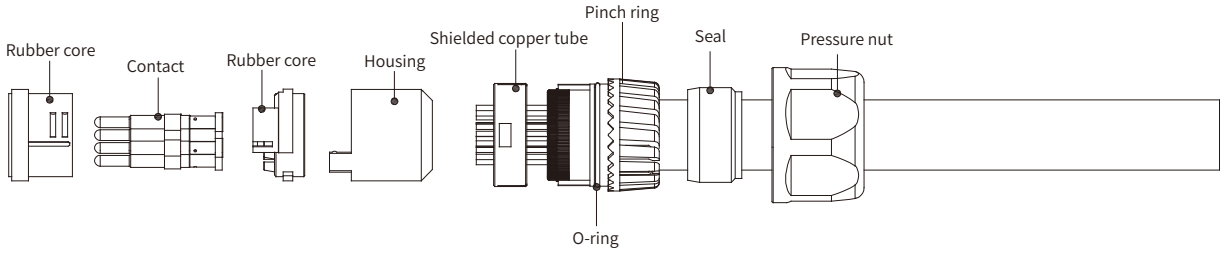
## Part Number

| Pins | Coupling screw |
|---|---|
| 6A | M23-SQSSCPST06A-07 |
| 7A | M23-SQSSCPST07A-07 |
| 9A | M23-SQSSCPST09A-07 |
| 9B | M23-SQSSCPST09B-07 |
| 9C | M23-SQSSCPST09C-07 |
| 12A | M23-SQSSCPST12A-07 |
| 12B | M23-SQSSCPST12B-07 |
| 16A | M23-SQSSCPST16A-07 |
| 17A | M23-SQSSCPST17A-07 |
| 17B | M23-SQSSCPST17B-07 |
| 19A | M23-SQSSCPST19A-07 |

## Assembly Instruction



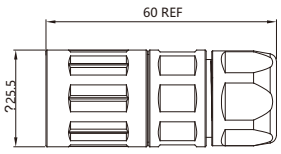



# M23 Signal

## M23 Straight Connector, Quick-lock, Field Wirable Assembly, Crimp Type, Shielded

Coupling nut




CE RoHS IP68

## Specifications

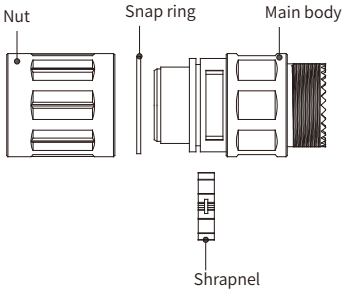
| Contacts | 6A | 7A | 9A | 9B | 9C | 12A | 12B | 16A | 17A | 17B | 19A |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Pin layout(Female) | | | | | | | | | | | |

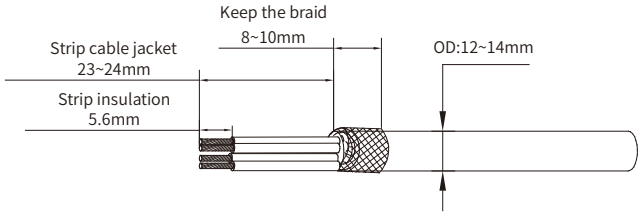
| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Connector insert | PA | | | | | | | | | | |
| Connector contacts | Brass with gold plated | | | | | | | | | | |
| Coupling nut/screw | Brass with nickel plated | | | | | | | | | | |
| Connector body | Brass/Zinc alloy with nickel plated | | | | | | | | | | |
| Seal/O-ring | FKM or NBR | | | | | | | | | | |
| Mating Endurance | >800 | | | | | | | | | | |
| Insulation resistance | ⩾100MΩ | | | | | | | | | | |
| Contact resistance | ⩽5mΩ | | | | | | | | | | |
| Ambient temperature | -40°C ~ +125°C | | | | | | | | | | |
| Shielding | Available | | | | | | | | | | |
| IP rating | IP67, IP68 in locked condition | | | | | | | | | | |
| Cable range | 12~14mm | | | | | | | | | | |
| Number of positions | 6,7 | 9(8+1)/(6+3) | | | | 12 | 16 | 17 | 19(16+3) | | |
| Contacts | 6,7 | 8 / 6 | 1 / 3 | | | 12 | 16 | 17 | 16 | 3 | |
| Contact OD(mm) | 2.0(14AWG) | 1.0(18AWG) | 2.0(14AWG) | | | 1.0(18AWG) | 1.0(18AWG) | 1.0(18AWG) | 1.0(18AWG) | 1.5(16AWG) | |
| Rated current @ 20°C(A) | 20 | 8 | 20 | | | 8 | 8 | 8 | 8 | 10 | |
| Rated Voltage(V) | 300 | 300 | 300 | | | 160 | 160 | 160 | 160 | 160 | |
| Impulse voltage(V) | 2500 | 2500 | 2500 | | | 1500 | 1500 | 1500 | 1500 | 1500 | |
| Overvoltage category | II | | | | | | | | | | |
| Pollution Degree | III | | | | | | | | | | |

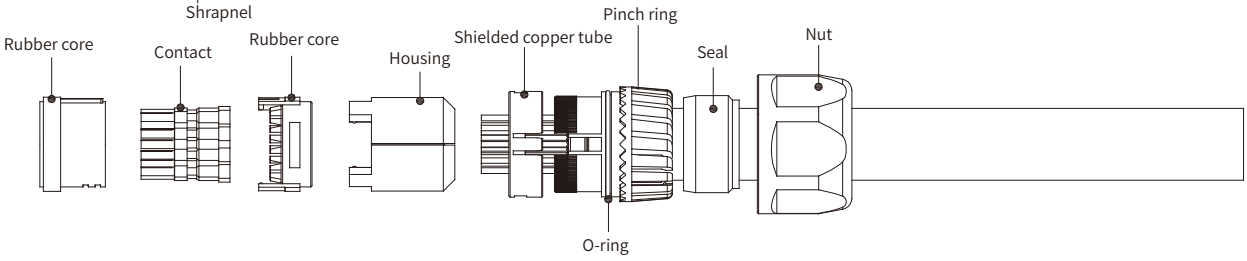
## Part Number

| Pins | Coupling nut |
|---|---|
| 6A | M23-SQNSCSST06A-07 |
| 7A | M23-SQNSCSST07A-07 |
| 9A | M23-SQNSCSST09A-07 |
| 9B | M23-SQNSCSST09B-07 |
| 9C | M23-SQNSCSST09C-07 |
| 12A | M23-SQNSCSST12A-07 |
| 12B | M23-SQNSCSST12B-07 |
| 16A | M23-SQNSCSST16A-07 |
| 17A | M23-SQNSCSST17A-07 |
| 17B | M23-SQNSCSST17B-07 |
| 19A | M23-SQNSCSST19A-07 |

## Assembly Instruction



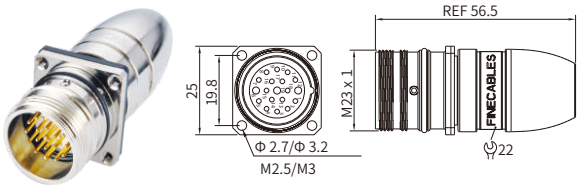



# M23 Signal

## M23 Straight Connector, Panel Mount with Flange, Coupling Screw, Assembly type

Male

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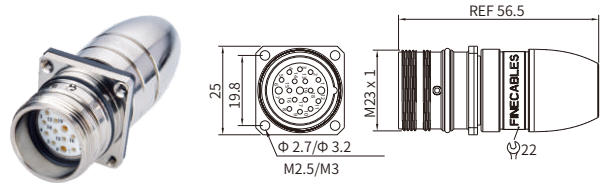
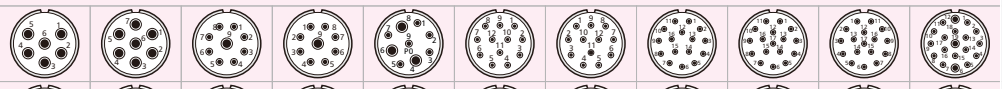
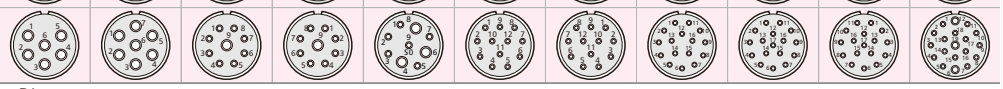
Female




CE RoHS

## Specifications

| Contacts | 6A | 7A | 9A | 9B | 9C | 12A | 12B | 16A | 17A | 17B | 19A |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Certification | cULus ECBT2(ECBT8).E473386 | | | | | | | | | | |
| Pin layout(Male) |  | | | | | | | | | | |
| Pin layout(Female) |  | | | | | | | | | | |
| Connector insert | PA | | | | | | | | | | |
| Connector contacts | Brass with gold plated | | | | | | | | | | |
| Coupling nut/screw | Brass with nickel plated | | | | | | | | | | |
| Connector body | Brass with nickel plated | | | | | | | | | | |
| Seal/O-ring | FKM or NBR | | | | | | | | | | |
| Mating Endurance | >800 | | | | | | | | | | |
| Insulation resistance | ≥100MΩ | | | | | | | | | | |
| Contact resistance | ≤5mΩ | | | | | | | | | | |
| Ambient temperature | -40°C ~ +125°C | | | | | | | | | | |
| Shielding | Available | | | | | | | | | | |
| IP rating | IP67, IP68 in locked condition | | | | | | | | | | |
| Cable OD range | 2.0~11.4mm | | | | | | | | | | |
| Assembly Instruction | Refer to page 510~513 | | | | | | | | | | |
| Number of positions | 6,7 | 9(8+1)/(6+3) | | | | 12 | | 16 | 17 | | 19(16+3) | |
| Contacts | 6,7 | 8 / 6 | | 1 / 3 | | 12 | | 16 | 17 | | 16 | 3 |
| Contact OD(mm) | 2.0(14AWG) | 1.0(18AWG) | | 2.0(14AWG) | | 1.0(18AWG) | | 1.0(18AWG) | 1.0(18AWG) | | 1.0(18AWG) | 1.5(16AWG) |
| Rated current @ 20°C(A) | 20 | 8 | | 20 | | 8 | | 8 | 8 | | 8 | 10 |
| Rated Voltage(V) | 300 | 300 | | 300 | | 160 | | 160 | 160 | | 160 | 160 |
| Impulse voltage(V) | 2500 | 2500 | | 2500 | | 1500 | | 1500 | 1500 | | 1500 | 1500 |
| Overvoltage category | II | | | | | | | | | | | |
| Pollution Degree | III | | | | | | | | | | | |

## Part Number (Solder)

| Pins | Male | | Female | |
|---|---|---|---|---|
| | UL 1007 | UL 1015 | UL 1007 | UL 1015 |
| 6A | M23-SSSPSTFA*Fx*06A-*XX* I *XXX* | M23-SSSPSTFA*Fx*06A-*XX* II *XXX* | M23-SSSSSTFA*Fx*06A-*XX* I *XXX* | M23-SSSSSTFA*Fx*06A-*XX* II *XXX* |
| 7A | M23-SSSPSTFA*Fx*07A-*XX* I *XXX* | M23-SSSPSTFA*Fx*07A-*XX* II *XXX* | M23-SSSSSTFA*Fx*07A-*XX* I *XXX* | M23-SSSSSTFA*Fx*07A-*XX* II *XXX* |
| 9A | M23-SSSPSTFA*Fx*09A-*XX* I *XXX* | M23-SSSPSTFA*Fx*09A-*XX* II *XXX* | M23-SSSSSTFA*Fx*09A-*XX* I *XXX* | M23-SSSSSTFA*Fx*09A-*XX* II *XXX* |
| 9B | M23-SSSPSTFA*Fx*09B-*XX* I *XXX* | M23-SSSPSTFA*Fx*09B-*XX* II *XXX* | M23-SSSSSTFA*Fx*09B-*XX* I *XXX* | M23-SSSSSTFA*Fx*09B-*XX* II *XXX* |
| 9C | M23-SSSPSTFA*Fx*09C-*XX* I *XXX* | M23-SSSPSTFA*Fx*09C-*XX* II *XXX* | M23-SSSSSTFA*Fx*09C-*XX* I *XXX* | M23-SSSSSTFA*Fx*09C-*XX* II *XXX* |
| 12A | M23-SSSPSTFA*Fx*12A-*XX* I *XXX* | M23-SSSPSTFA*Fx*12A-*XX* II *XXX* | M23-SSSSSTFA*Fx*12A-*XX* I *XXX* | M23-SSSSSTFA*Fx*12A-*XX* II *XXX* |
| 12B | M23-SSSPSTFA*Fx*12B-*XX* I *XXX* | M23-SSSPSTFA*Fx*12B-*XX* II *XXX* | M23-SSSSSTFA*Fx*12B-*XX* I *XXX* | M23-SSSSSTFA*Fx*12B-*XX* II *XXX* |
| 16A | M23-SSSPSTFA*Fx*16A-*XX* I *XXX* | M23-SSSPSTFA*Fx*16A-*XX* II *XXX* | M23-SSSSSTFA*Fx*16A-*XX* I *XXX* | M23-SSSSSTFA*Fx*16A-*XX* II *XXX* |
| 17A | M23-SSSPSTFA*Fx*17A-*XX* I *XXX* | M23-SSSPSTFA*Fx*17A-*XX* II *XXX* | M23-SSSSSTFA*Fx*17A-*XX* I *XXX* | M23-SSSSSTFA*Fx*17A-*XX* II *XXX* |
| 17B | M23-SSSPSTFA*Fx*17B-*XX* I *XXX* | M23-SSSPSTFA*Fx*17B-*XX* II *XXX* | M23-SSSSSTFA*Fx*17B-*XX* I *XXX* | M23-SSSSSTFA*Fx*17B-*XX* II *XXX* |
| 19A | M23-SSSPSTFA*Fx*19A-*XX* I *XXX* | M23-SSSPSTFA*Fx*19A-*XX* II *XXX* | M23-SSSSSTFA*Fx*19A-*XX* I *XXX* | M23-SSSSSTFA*Fx*19A-*XX* II *XXX* |

Note: *FX* refer to panel mount hole F1:Φ2.7; F2: M2.5;F3:Φ3.2; F4: M3.0, Note: *XX* for cable OD. 01: 5.0-6.0; 02: 6.0-7.0; 03: 7.0-8.0; 04: 8.0-9.0; 05: 9.0-10.0; 06: 10.0~11.0

Note: *XXX* wire length 03=0.3m; 10=1m; 100=10m

## Part Number (Crimp)

| Pins | Male | | Female | |
|---|---|---|---|---|
| | UL 1007 | UL 1015 | UL 1007 | UL 1015 |
| 6A | M23-SSSCPSTFA*Fx*06A-*XX* I *XXX* | M23-SSSCPSTFA*Fx*06A-*XX* II *XXX* | M23-SSSCSSTFA*Fx*06A-*XX* I *XXX* | M23-SSSCSSTFA*Fx*06A-*XX* II *XXX* |
| 7A | M23-SSSCPSTFA*Fx*07A-*XX* I *XXX* | M23-SSSCPSTFA*Fx*07A-*XX* II *XXX* | M23-SSSCSSTFA*Fx*07A-*XX* I *XXX* | M23-SSSCSSTFA*Fx*07A-*XX* II *XXX* |
| 9A | M23-SSSCPSTFA*Fx*09A-*XX* I *XXX* | M23-SSSCPSTFA*Fx*09A-*XX* II *XXX* | M23-SSSCSSTFA*Fx*09A-*XX* I *XXX* | M23-SSSCSSTFA*Fx*09A-*XX* II *XXX* |
| 9B | M23-SSSCPSTFA*Fx*09B-*XX* I *XXX* | M23-SSSCPSTFA*Fx*09B-*XX* II *XXX* | M23-SSSCSSTFA*Fx*09B-*XX* I *XXX* | M23-SSSCSSTFA*Fx*09B-*XX* II *XXX* |
| 9C | M23-SSSCPSTFA*Fx*09C-*XX* I *XXX* | M23-SSSCPSTFA*Fx*09C-*XX* II *XXX* | M23-SSSCSSTFA*Fx*09C-*XX* I *XXX* | M23-SSSCSSTFA*Fx*09C-*XX* II *XXX* |
| 12A | M23-SSSCPSTFA*Fx*12A-*XX* I *XXX* | M23-SSSCPSTFA*Fx*12A-*XX* II *XXX* | M23-SSSCSSTFA*Fx*12A-*XX* I *XXX* | M23-SSSCSSTFA*Fx*12A-*XX* II *XXX* |
| 12B | M23-SSSCPSTFA*Fx*12B-*XX* I *XXX* | M23-SSSCPSTFA*Fx*12B-*XX* II *XXX* | M23-SSSCSSTFA*Fx*12B-*XX* I *XXX* | M23-SSSCSSTFA*Fx*12B-*XX* II *XXX* |
| 16A | M23-SSSCPSTFA*Fx*16A-*XX* I *XXX* | M23-SSSCPSTFA*Fx*16A-*XX* II *XXX* | M23-SSSCSSTFA*Fx*16A-*XX* I *XXX* | M23-SSSCSSTFA*Fx*16A-*XX* II *XXX* |
| 17A | M23-SSSCPSTFA*Fx*17A-*XX* I *XXX* | M23-SSSCPSTFA*Fx*17A-*XX* II *XXX* | M23-SSSCSSTFA*Fx*17A-*XX* I *XXX* | M23-SSSCSSTFA*Fx*17A-*XX* II *XXX* |
| 17B | M23-SSSCPSTFA*Fx*17B-*XX* I *XXX* | M23-SSSCPSTFA*Fx*17B-*XX* II *XXX* | M23-SSSCSSTFA*Fx*17B-*XX* I *XXX* | M23-SSSCSSTFA*Fx*17B-*XX* II *XXX* |
| 19A | M23-SSSCPSTFA*Fx*19A-*XX* I *XXX* | M23-SSSCPSTFA*Fx*19A-*XX* II *XXX* | M23-SSSCSSTFA*Fx*19A-*XX* I *XXX* | M23-SSSCSSTFA*Fx*19A-*XX* II *XXX* |

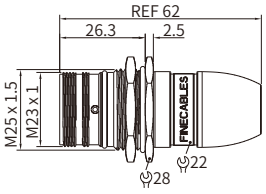
Note: *FX* refer to panel mount hole F1:Φ2.7; F2: M2.5;F3:Φ3.2; F4: M3.0, Note: *XX* for cable OD. 01: 5.0-6.0; 02: 6.0-7.0; 03: 7.0-8.0; 04: 8.0-9.0; 05: 9.0-10.0; 06: 10.0~11.0

Note: *XXX* wire length 03=0.3m; 10=1m; 100=10m

# M23 Signal

## M23 Straight Connector, Panel Mount, Coupling Screw, Assembly type

Male

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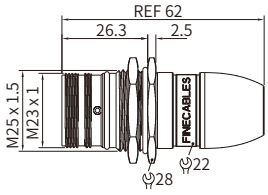
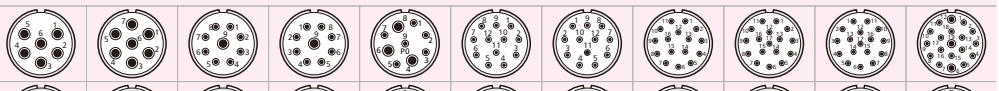
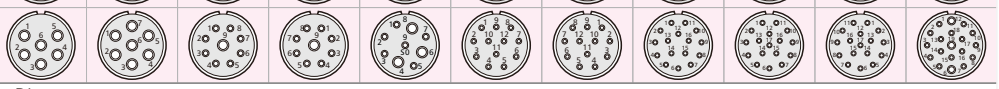
Female




CE RoHS IP68

## Specifications

| Contacts | 6A | 7A | 9A | 9B | 9C | 12A | 12B | 16A | 17A | 17B | 19A |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Certification | c UL us ECBT2(ECBT8).E473386 | | | | | | | | | | |
| Pin layout(Male) |  | | | | | | | | | | |
| Pin layout(Female) |  | | | | | | | | | | |
| Connector insert | PA | | | | | | | | | | |
| Connector contacts | Brass with gold plated | | | | | | | | | | |
| Coupling nut/screw | Brass with nickel plated | | | | | | | | | | |
| Connector body | Brass with nickel plated | | | | | | | | | | |
| Seal/O-ring | FKM or NBR | | | | | | | | | | |
| Mating Endurance | >800 | | | | | | | | | | |
| Insulation resistance | ⩾100MΩ | | | | | | | | | | |
| Contact resistance | ⩽5mΩ | | | | | | | | | | |
| Ambient temperature | -40°C ~ +125°C | | | | | | | | | | |
| Shielding | Available | | | | | | | | | | |
| IP rating | IP67, IP68 in locked condition | | | | | | | | | | |
| Cable OD range | 2.0~11.4mm | | | | | | | | | | |
| Assembly Instruction | Refer to page 510~513 | | | | | | | | | | |
| Number of positions | 6,7 | | 9(8+1)/(6+3) | | | 12 | | 16 | 17 | 19(16+3) | |
| Contacts | 6,7 | | 8 / 6 | 1 / 3 | | 12 | | 16 | 17 | 16 | 3 |
| Contact OD(mm) | 2.0(14AWG) | | 1.0(18AWG) | 2.0(14AWG) | | 1.0(18AWG) | | 1.0(18AWG) | 1.0(18AWG) | 1.0(18AWG) | 1.5(16AWG) |
| Rated current @ 20°C(A) | 20 | | 8 | 20 | | 8 | | 8 | 8 | 8 | 10 |
| Rated Voltage(V) | 300 | | 300 | 300 | | 160 | | 160 | 160 | 160 | 160 |
| Impulse voltage(V) | 2500 | | 2500 | 2500 | | 1500 | | 1500 | 1500 | 1500 | 1500 |
| Overvoltage category | II | | | | | | | | | | |
| Pollution Degree | III | | | | | | | | | | |

## Part Number (Solder)

| Pins | Male | | Female | |
|---|---|---|---|---|
| | UL 1007 | UL 1015 | UL 1007 | UL 1015 |
| 6A | M23-SSSPSTFA*Sx*06A-*XX* I *XXX* | M23-SSSPSTFA*Sx*06A-*XX* II *XXX* | M23-SSSSSTFA*Sx*06A-*XX* I *XXX* | M23-SSSSSTFA*Sx*06A-*XX* II *XXX* |
| 7A | M23-SSSPSTFA*Sx*07A-*XX* I *XXX* | M23-SSSPSTFA*Sx*07A-*XX* II *XXX* | M23-SSSSSTFA*Sx*07A-*XX* I *XXX* | M23-SSSSSTFA*Sx*07A-*XX* II *XXX* |
| 9A | M23-SSSPSTFA*Sx*09A-*XX* I *XXX* | M23-SSSPSTFA*Sx*09A-*XX* II *XXX* | M23-SSSSSTFA*Sx*09A-*XX* I *XXX* | M23-SSSSSTFA*Sx*09A-*XX* II *XXX* |
| 9B | M23-SSSPSTFA*Sx*09B-*XX* I *XXX* | M23-SSSPSTFA*Sx*09B-*XX* II *XXX* | M23-SSSSSTFA*Sx*09B-*XX* I *XXX* | M23-SSSSSTFA*Sx*09B-*XX* II *XXX* |
| 9C | M23-SSSPSTFA*Sx*09C-*XX* I *XXX* | M23-SSSPSTFA*Sx*09C-*XX* II *XXX* | M23-SSSSSTFA*Sx*09C-*XX* I *XXX* | M23-SSSSSTFA*Sx*09C-*XX* II *XXX* |
| 12A | M23-SSSPSTFA*Sx*12A-*XX* I *XXX* | M23-SSSPSTFA*Sx*12A-*XX* II *XXX* | M23-SSSSSTFA*Sx*12A-*XX* I *XXX* | M23-SSSSSTFA*Sx*12A-*XX* II *XXX* |
| 12B | M23-SSSPSTFA*Sx*12B-*XX* I *XXX* | M23-SSSPSTFA*Sx*12B-*XX* II *XXX* | M23-SSSSSTFA*Sx*12B-*XX* I *XXX* | M23-SSSSSTFA*Sx*12B-*XX* II *XXX* |
| 16A | M23-SSSPSTFA*Sx*16A-*XX* I *XXX* | M23-SSSPSTFA*Sx*16A-*XX* II *XXX* | M23-SSSSSTFA*Sx*16A-*XX* I *XXX* | M23-SSSSSTFA*Sx*16A-*XX* II *XXX* |
| 17A | M23-SSSPSTFA*Sx*17A-*XX* I *XXX* | M23-SSSPSTFA*Sx*17A-*XX* II *XXX* | M23-SSSSSTFA*Sx*17A-*XX* I *XXX* | M23-SSSSSTFA*Sx*17A-*XX* II *XXX* |
| 17B | M23-SSSPSTFA*Sx*17B-*XX* I *XXX* | M23-SSSPSTFA*Sx*17B-*XX* II *XXX* | M23-SSSSSTFA*Sx*17B-*XX* I *XXX* | M23-SSSSSTFA*Sx*17B-*XX* II *XXX* |
| 19A | M23-SSSPSTFA*Sx*19A-*XX* I *XXX* | M23-SSSPSTFA*Sx*19A-*XX* II *XXX* | M23-SSSSSTFA*Sx*19A-*XX* I *XXX* | M23-SSSSSTFA*Sx*19A-*XX* II *XXX* |

Note: *SX* refer to panel mount hole S1:PG13.5; S2:M25x1.0; S3:M25x1.5, Note: *XX* for cable OD. 01: 5.0-6.0; 02: 6.0-7.0; 03: 7.0-8.0; 04: 8.0-9.0; 05: 9.0-10.0; 06: 10.0~11.0

Note: *XXX* wire length 03=0.3m; 10=1m; 100=10m

## Part Number (Crimp)

| Pins | Male | | Female | |
|---|---|---|---|---|
| | UL 1007 | UL 1015 | UL 1007 | UL 1015 |
| 6A | M23-SSSCPSTFA*Sx*06A-*XX* I *XXX* | M23-SSSCPSTFA*Sx*06A-*XX* II *XXX* | M23-SSSCSSTFA*Sx*06A-*XX* I *XXX* | M23-SSSCSSTFA*Sx*06A-*XX* II *XXX* |
| 7A | M23-SSSCPSTFA*Sx*07A-*XX* I *XXX* | M23-SSSCPSTFA*Sx*07A-*XX* II *XXX* | M23-SSSCSSTFA*Sx*07A-*XX* I *XXX* | M23-SSSCSSTFA*Sx*07A-*XX* II *XXX* |
| 9A | M23-SSSCPSTFA*Sx*09A-*XX* I *XXX* | M23-SSSCPSTFA*Sx*09A-*XX* II *XXX* | M23-SSSCSSTFA*Sx*09A-*XX* I *XXX* | M23-SSSCSSTFA*Sx*09A-*XX* II *XXX* |
| 9B | M23-SSSCPSTFA*Sx*09B-*XX* I *XXX* | M23-SSSCPSTFA*Sx*09B-*XX* II *XXX* | M23-SSSCSSTFA*Sx*09B-*XX* I *XXX* | M23-SSSCSSTFA*Sx*09B-*XX* II *XXX* |
| 9C | M23-SSSCPSTFA*Sx*09C-*XX* I *XXX* | M23-SSSCPSTFA*Sx*09C-*XX* II *XXX* | M23-SSSCSSTFA*Sx*09C-*XX* I *XXX* | M23-SSSCSSTFA*Sx*09C-*XX* II *XXX* |
| 12A | M23-SSSCPSTFA*Sx*12A-*XX* I *XXX* | M23-SSSCPSTFA*Sx*12A-*XX* II *XXX* | M23-SSSCSSTFA*Sx*12A-*XX* I *XXX* | M23-SSSCSSTFA*Sx*12A-*XX* II *XXX* |
| 12B | M23-SSSCPSTFA*Sx*12B-*XX* I *XXX* | M23-SSSCPSTFA*Sx*12B-*XX* II *XXX* | M23-SSSCSSTFA*Sx*12B-*XX* I *XXX* | M23-SSSCSSTFA*Sx*12B-*XX* II *XXX* |
| 16A | M23-SSSCPSTFA*Sx*16A-*XX* I *XXX* | M23-SSSCPSTFA*Sx*16A-*XX* II *XXX* | M23-SSSCSSTFA*Sx*16A-*XX* I *XXX* | M23-SSSCSSTFA*Sx*16A-*XX* II *XXX* |
| 17A | M23-SSSCPSTFA*Sx*17A-*XX* I *XXX* | M23-SSSCPSTFA*Sx*17A-*XX* II *XXX* | M23-SSSCSSTFA*Sx*17A-*XX* I *XXX* | M23-SSSCSSTFA*Sx*17A-*XX* II *XXX* |
| 17B | M23-SSSCPSTFA*Sx*17B-*XX* I *XXX* | M23-SSSCPSTFA*Sx*17B-*XX* II *XXX* | M23-SSSCSSTFA*Sx*17B-*XX* I *XXX* | M23-SSSCSSTFA*Sx*17B-*XX* II *XXX* |
| 19A | M23-SSSCPSTFA*Sx*19A-*XX* I *XXX* | M23-SSSCPSTFA*Sx*19A-*XX* II *XXX* | M23-SSSCSSTFA*Sx*19A-*XX* I *XXX* | M23-SSSCSSTFA*Sx*19A-*XX* II *XXX* |

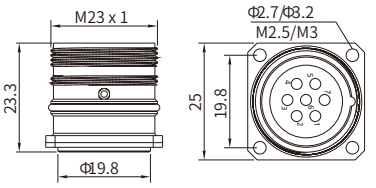
Note: *SX* refer to panel mount hole S1:PG13.5; S2:M25x1.0; S3:M25x1.5, Note: *XX* for cable OD. 01: 5.0-6.0; 02: 6.0-7.0; 03: 7.0-8.0; 04: 8.0-9.0; 05: 9.0-10.0; 06: 10.0~11.0

Note: *XXX* wire length 03=0.3m; 10=1m; 100=10m

# M23 Signal

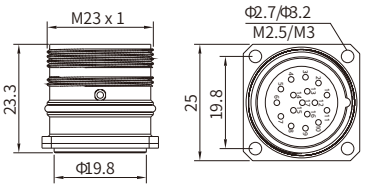
## M23 Straight Connector, Panel Mount, Solder, Front fastened, Coupling screw, with Flange

Male



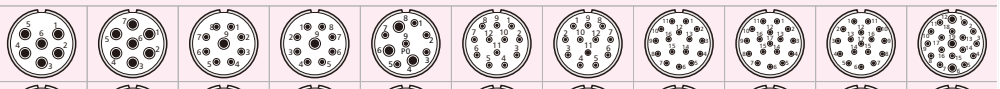

CE RoHS IP68

Female




CE RoHS IP68

## Specifications

| Contacts | 6A | 7A | 9A | 9B | 9C | 12A | 12B | 16A | 17A | 17B | 19A |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Certification | cULus ECBT2(ECBT8).E473386 | | | | | | | | | | |
| Pin layout(Male) |  | | | | | | | | | | |
| Pin layout(Female) | | | | | | | | | | | |
| Connector insert | PA | | | | | | | | | | |
| Connector contacts | Brass with gold plated | | | | | | | | | | |
| Coupling nut/screw | Brass with nickel plated | | | | | | | | | | |
| Seal/O-ring | FKM or NBR | | | | | | | | | | |
| Mating Endurance | >800 | | | | | | | | | | |
| Insulation resistance | ⩾100MΩ | | | | | | | | | | |
| Contact resistance | ⩽5mΩ | | | | | | | | | | |
| Ambient temperature | -40°C ~ +125°C | | | | | | | | | | |
| Shielding | Unavailable | | | | | | | | | | |
| IP rating | IP67, IP68 in locked condition | | | | | | | | | | |
| Panel cut-out | Refer to page 517 | | | | | | | | | | |
| Number of positions | 6,7 | 9(8+1)/(6+3) | | | | 12 | | 16 | 17 | 19(16+3) | |
| Contacts | 6,7 | 8 / 6 | | 1 / 3 | | 12 | | 16 | 17 | 16 | 3 |
| Contact OD(mm) | 2.0(14AWG) | 1.0(18AWG) | | 2.0(14AWG) | | 1.0(18AWG) | | 1.0(18AWG) | 1.0(18AWG) | 1.0(18AWG) | 1.5(16AWG) |
| Rated current @ 20°C(A) | 20 | 8 | | 20 | | 8 | | 8 | 8 | 8 | 10 |
| Rated Voltage(V) | 300 | 300 | | 300 | | 160 | | 160 | 160 | 160 | 160 |
| Impulse voltage(V) | 2500 | 2500 | | 2500 | | 1500 | | 1500 | 1500 | 1500 | 1500 |
| Overvoltage category | II | | | | | | | | | | |
| Pollution Degree | III | | | | | | | | | | |

## Part Number

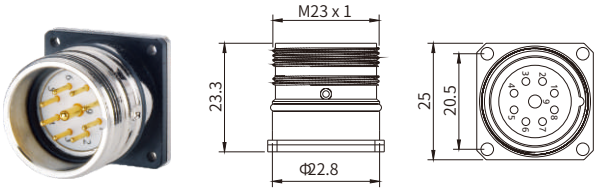
Note: *FX* refer to panel mount hole F1:Φ2.7; F2: M2.5;F3:Φ3.2; F4: M3.0

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | UL1007 | UL1015 | UL1007 | UL1015 |
| 6A | 0.3m | M23-SSPSTF*Fx*06A- I 03 | M23-SSPSTF*Fx*06A- II 03 | M23-SSSSTF*Fx*06A- I 03 | M23-SSSSTF*Fx*06A- II 03 |
| 7A | 0.3m | M23-SSPSTF*Fx*07A- I 03 | M23-SSPSTF*Fx*07A- II 03 | M23-SSSSTF*Fx*07A- I 03 | M23-SSSSTF*Fx*07A- II 03 |
| 9A | 0.3m | M23-SSPSTF*Fx*09A- I 03 | M23-SSPSTF*Fx*09A- II 03 | M23-SSSSTF*Fx*09A- I 03 | M23-SSSSTF*Fx*09A- II 03 |
| 9B | 0.3m | M23-SSPSTF*Fx*09B- I 03 | M23-SSPSTF*Fx*09B- II 03 | M23-SSSSTF*Fx*09B- I 03 | M23-SSSSTF*Fx*09B- II 03 |
| 9C | 0.3m | M23-SSPSTF*Fx*09C- I 03 | M23-SSPSTF*Fx*09C- II 03 | M23-SSSSTF*Fx*09C- I 03 | M23-SSSSTF*Fx*09C- II 03 |
| 12A | 0.3m | M23-SSPSTF*Fx*12A- I 03 | M23-SSPSTF*Fx*12A- II 03 | M23-SSSSTF*Fx*12A- I 03 | M23-SSSSTF*Fx*12A- II 03 |
| 12B | 0.3m | M23-SSPSTF*Fx*12B- I 03 | M23-SSPSTF*Fx*12B- II 03 | M23-SSSSTF*Fx*12B- I 03 | M23-SSSSTF*Fx*12B- II 03 |
| 16A | 0.3m | M23-SSPSTF*Fx*16A- I 03 | M23-SSPSTF*Fx*16A- II 03 | M23-SSSSTF*Fx*16A- I 03 | M23-SSSSTF*Fx*16A- II 03 |
| 17A | 0.3m | M23-SSPSTF*Fx*17A- I 03 | M23-SSPSTF*Fx*17A- II 03 | M23-SSSSTF*Fx*17A- I 03 | M23-SSSSTF*Fx*17A- II 03 |
| 17B | 0.3m | M23-SSPSTF*Fx*17B- I 03 | M23-SSPSTF*Fx*17B- II 03 | M23-SSSSTF*Fx*17B- I 03 | M23-SSSSTF*Fx*17B- II 03 |
| 19A | 0.3m | M23-SSPSTF*Fx*19A- I 03 | M23-SSPSTF*Fx*19A- II 03 | M23-SSSSTF*Fx*19A- I 03 | M23-SSSSTF*Fx*19A- II 03 |

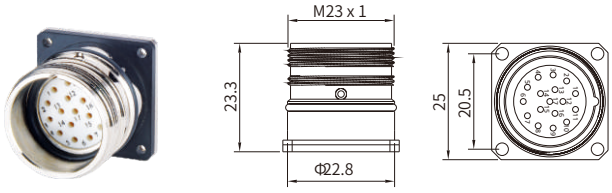
# M23 Signal

## M23 Straight Connector, Panel Mount, Solder, Rear fastened, Coupling screw, with Flange

Male



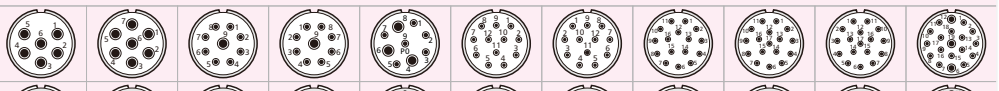
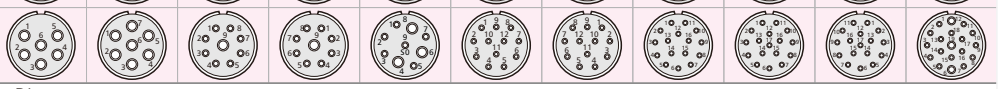

Female




CE RoHS IP68

CE RoHS IP68

## Specifications

| Contacts | 6A | 7A | 9A | 9B | 9C | 12A | 12B | 16A | 17A | 17B | 19A |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Certification | c UL us ECBT2(ECBT8).E473386 | | | | | | | | | | |
| Pin layout(Male) |  | | | | | | | | | | |
| Pin layout(Female) |  | | | | | | | | | | |
| Connector insert | PA | | | | | | | | | | |
| Connector contacts | Brass with gold plated | | | | | | | | | | |
| Coupling nut/screw | Brass with nickel plated | | | | | | | | | | |
| Seal/O-ring | FKM or NBR | | | | | | | | | | |
| Mating Endurance | >800 | | | | | | | | | | |
| Insulation resistance | ⩾100MΩ | | | | | | | | | | |
| Contact resistance | ⩽5mΩ | | | | | | | | | | |
| Ambient temperature | -40°C ~ +125°C | | | | | | | | | | |
| Shielding | Unavailable | | | | | | | | | | |
| IP rating | IP67, IP68 in locked condition | | | | | | | | | | |
| Panel cut-out | Refer to page 517 | | | | | | | | | | |
| Number of positions | 6,7 | | 9(8+1)/(6+3) | | | 12 | | 16 | 17 | 19(16+3) | |
| Contacts | 6,7 | | 8 / 6 | | 1 / 3 | 12 | | 16 | 17 | 16 | 3 |
| Contact OD(mm) | 2.0(14AWG) | | 1.0(18AWG) | | 2.0(14AWG) | 1.0(18AWG) | | 1.0(18AWG) | 1.0(18AWG) | 1.0(18AWG) | 1.5(16AWG) |
| Rated current @ 20°C(A) | 20 | | 8 | | 20 | 8 | | 8 | 8 | 8 | 10 |
| Rated Voltage(V) | 300 | | 300 | | 300 | 160 | | 160 | 160 | 160 | 160 |
| Impulse voltage(V) | 2500 | | 2500 | | 2500 | 1500 | | 1500 | 1500 | 1500 | 1500 |
| Overvoltage category | II | | | | | | | | | | |
| Pollution Degree | III | | | | | | | | | | |

## Part Number

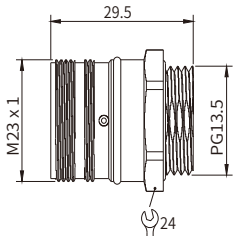
Note: *FX* refer to panel mount hole F1:Φ2.7; F2: M2.5;F3:Φ3.2; F4: M3.0

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | UL1007 | UL1015 | UL1007 | UL1015 |
| 6A | 0.3m | M23-SSPSTR*Fx*06A- I 03 | M23-SSPSTR*Fx*06A- II 03 | M23-SSSSTR*Fx*06A- I 03 | M23-SSSSTR*Fx*06A- II 03 |
| 7A | 0.3m | M23-SSPSTR*Fx*07A- I 03 | M23-SSPSTR*Fx*07A- II 03 | M23-SSSSTR*Fx*07A- I 03 | M23-SSSSTR*Fx*07A- II 03 |
| 9A | 0.3m | M23-SSPSTR*Fx*09A- I 03 | M23-SSPSTR*Fx*09A- II 03 | M23-SSSSTR*Fx*09A- I 03 | M23-SSSSTR*Fx*09A- II 03 |
| 9B | 0.3m | M23-SSPSTR*Fx*09B- I 03 | M23-SSPSTR*Fx*09B- II 03 | M23-SSSSTR*Fx*09B- I 03 | M23-SSSSTR*Fx*09B- II 03 |
| 9C | 0.3m | M23-SSPSTR*Fx*09C- I 03 | M23-SSPSTR*Fx*09C- II 03 | M23-SSSSTR*Fx*09C- I 03 | M23-SSSSTR*Fx*09C- II 03 |
| 12A | 0.3m | M23-SSPSTR*Fx*12A- I 03 | M23-SSPSTR*Fx*12A- II 03 | M23-SSSSTR*Fx*12A- I 03 | M23-SSSSTR*Fx*12A- II 03 |
| 12B | 0.3m | M23-SSPSTR*Fx*12B- I 03 | M23-SSPSTR*Fx*12B- II 03 | M23-SSSSTR*Fx*12B- I 03 | M23-SSSSTR*Fx*12B- II 03 |
| 16A | 0.3m | M23-SSPSTR*Fx*16A- I 03 | M23-SSPSTR*Fx*16A- II 03 | M23-SSSSTR*Fx*16A- I 03 | M23-SSSSTR*Fx*16A- II 03 |
| 17A | 0.3m | M23-SSPSTR*Fx*17A- I 03 | M23-SSPSTR*Fx*17A- II 03 | M23-SSSSTR*Fx*17A- I 03 | M23-SSSSTR*Fx*17A- II 03 |
| 17B | 0.3m | M23-SSPSTR*Fx*17B- I 03 | M23-SSPSTR*Fx*17B- II 03 | M23-SSSSTR*Fx*17B- I 03 | M23-SSSSTR*Fx*17B- II 03 |
| 19A | 0.3m | M23-SSPSTR*Fx*19A- I 03 | M23-SSPSTR*Fx*19A- II 03 | M23-SSSSTR*Fx*19A- I 03 | M23-SSSSTR*Fx*19A- II 03 |

# M23 Signal

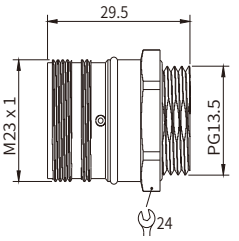
## M23 Straight Connector, Panel Mount, Solder, Rear mount, Coupling screw

Male



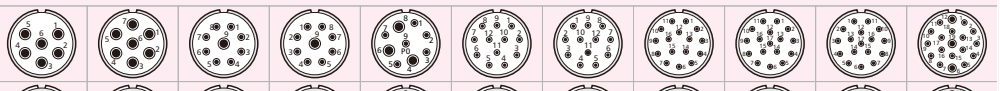

CE RoHS

Female




CE RoHS

## Specifications

| Contacts | 6A | 7A | 9A | 9B | 9C | 12A | 12B | 16A | 17A | 17B | 19A |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Certification | c UL us ECBT2(ECBT8).E473386 | | | | | | | | | | |
| Pin layout(Male) |  | | | | | | | | | | |
| Pin layout(Female) | | | | | | | | | | | |
| Connector insert | PA | | | | | | | | | | |
| Connector contacts | Brass with gold plated | | | | | | | | | | |
| Coupling nut/screw | Brass with nickel plated | | | | | | | | | | |
| Seal/O-ring | FKM or NBR | | | | | | | | | | |
| Mating Endurance | >800 | | | | | | | | | | |
| Insulation resistance | ⩾100MΩ | | | | | | | | | | |
| Contact resistance | ⩽5mΩ | | | | | | | | | | |
| Ambient temperature | -40°C ~ +125°C | | | | | | | | | | |
| Shielding | Unavailable | | | | | | | | | | |
| IP rating | IP67, IP68 in locked condition | | | | | | | | | | |
| Assembly Instruction | Refer to page 509 | | | | | | | | | | |
| Panel cut-out | Refer to page 517 | | | | | | | | | | |
| Number of positions | 6,7 | 9(8+1)/(6+3) | | | | 12 | | 16 | 17 | 19(16+3) | |
| Contacts | 6,7 | 8 / 6 | | 1 / 3 | | 12 | | 16 | 17 | 16 | 3 |
| Contact OD(mm) | 2.0(14AWG) | 1.0(18AWG) | | 2.0(14AWG) | | 1.0(18AWG) | | 1.0(18AWG) | 1.0(18AWG) | 1.0(18AWG) | 1.5(16AWG) |
| Rated current @ 20°C(A) | 20 | 8 | | 20 | | 8 | | 8 | 8 | 8 | 10 |
| Rated Voltage(V) | 300 | 300 | | 300 | | 160 | | 160 | 160 | 160 | 160 |
| Impulse voltage(V) | 2500 | 2500 | | 2500 | | 1500 | | 1500 | 1500 | 1500 | 1500 |
| Overvoltage category | II | | | | | | | | | | |
| Pollution Degree | III | | | | | | | | | | |

## Part Number

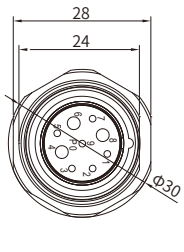
Note: *SX* refer to panel mount hole S1:PG13.5; S2:M25x1.0; S3:M25x1.5

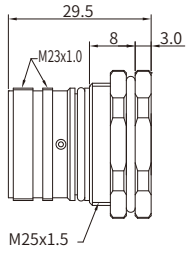
| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | UL1007 | UL1015 | UL1007 | UL1015 |
| 6A | 0.3m | M23-SSPSTR*Sx*06A- I 03 | M23-SSPSTR*Sx*06A- II 03 | M23-SSSSTR*Sx*06A- I 03 | M23-SSSSTR*Sx*06A- II 03 |
| 7A | 0.3m | M23-SSPSTR*Sx*07A- I 03 | M23-SSPSTR*Sx*07A- II 03 | M23-SSSSTR*Sx*07A- I 03 | M23-SSSSTR*Sx*07A- II 03 |
| 9A | 0.3m | M23-SSPSTR*Sx*09A- I 03 | M23-SSPSTR*Sx*09A- II 03 | M23-SSSSTR*Sx*09A- I 03 | M23-SSSSTR*Sx*09A- II 03 |
| 9B | 0.3m | M23-SSPSTR*Sx*09B- I 03 | M23-SSPSTR*Sx*09B- II 03 | M23-SSSSTR*Sx*09B- I 03 | M23-SSSSTR*Sx*09B- II 03 |
| 9C | 0.3m | M23-SSPSTR*Sx*09C- I 03 | M23-SSPSTR*Sx*09C- II 03 | M23-SSSSTR*Sx*09C- I 03 | M23-SSSSTR*Sx*09C- II 03 |
| 12A | 0.3m | M23-SSPSTR*Sx*12A- I 03 | M23-SSPSTR*Sx*12A- II 03 | M23-SSSSTR*Sx*12A- I 03 | M23-SSSSTR*Sx*12A- II 03 |
| 12B | 0.3m | M23-SSPSTR*Sx*12B- I 03 | M23-SSPSTR*Sx*12B- II 03 | M23-SSSSTR*Sx*12B- I 03 | M23-SSSSTR*Sx*12B- II 03 |
| 16A | 0.3m | M23-SSPSTR*Sx*16A- I 03 | M23-SSPSTR*Sx*16A- II 03 | M23-SSSSTR*Sx*16A- I 03 | M23-SSSSTR*Sx*16A- II 03 |
| 17A | 0.3m | M23-SSPSTR*Sx*17A- I 03 | M23-SSPSTR*Sx*17A- II 03 | M23-SSSSTR*Sx*17A- I 03 | M23-SSSSTR*Sx*17A- II 03 |
| 17B | 0.3m | M23-SSPSTR*Sx*17B- I 03 | M23-SSPSTR*Sx*17B- II 03 | M23-SSSSTR*Sx*17B- I 03 | M23-SSSSTR*Sx*17B- II 03 |
| 19A | 0.3m | M23-SSPSTR*Sx*19A- I 03 | M23-SSPSTR*Sx*19A- II 03 | M23-SSSSTR*Sx*19A- I 03 | M23-SSSSTR*Sx*19A- II 03 |

# M23 Signal

## M23 Straight Connector, Panel Mount, Solder, Front fastened, Coupling screw

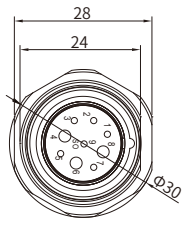
Male

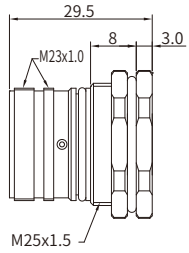



CE RoHS IP68

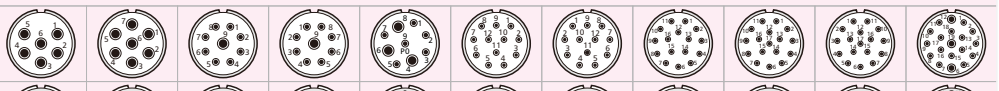
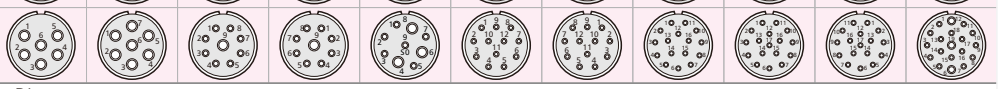
Female




CE RoHS IP68

## Specifications

| Contacts | 6A | 7A | 9A | 9B | 9C | 12A | 12B | 16A | 17A | 17B | 19A |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Certification | c UL us ECBT2(ECBT8).E473386 | | | | | | | | | | |
| Pin layout(Male) |  | | | | | | | | | | |
| Pin layout(Female) |  | | | | | | | | | | |
| Connector insert | PA | | | | | | | | | | |
| Connector contacts | Brass with gold plated | | | | | | | | | | |
| Coupling nut/screw | Brass with nickel plated | | | | | | | | | | |
| Seal/O-ring | FKM or NBR | | | | | | | | | | |
| Mating Endurance | >800 | | | | | | | | | | |
| Insulation resistance | ⩾100MΩ | | | | | | | | | | |
| Contact resistance | ⩽5mΩ | | | | | | | | | | |
| Ambient temperature | -40°C ~ +125°C | | | | | | | | | | |
| Shielding | Unavailable | | | | | | | | | | |
| IP rating | IP67, IP68 in locked condition | | | | | | | | | | |
| Assembly Instruction | Refer to page 509 | | | | | | | | | | |
| Panel cut-out | Refer to page 517 | | | | | | | | | | |
| Number of positions | 6,7 | | 9(8+1)/(6+3) | | | 12 | | 16 | 17 | 19(16+3) | |
| Contacts | 6,7 | | 8 / 6 | 1 / 3 | | 12 | | 16 | 17 | 16 | 3 |
| Contact OD(mm) | 2.0(14AWG) | | 1.0(18AWG) | 2.0(14AWG) | | 1.0(18AWG) | | 1.0(18AWG) | 1.0(18AWG) | 1.0(18AWG) | 1.5(16AWG) |
| Rated current @ 20°C(A) | 20 | | 8 | 20 | | 8 | | 8 | 8 | 8 | 10 |
| Rated Voltage(V) | 300 | | 300 | 300 | | 160 | | 160 | 160 | 160 | 160 |
| Impulse voltage(V) | 2500 | | 2500 | 2500 | | 1500 | | 1500 | 1500 | 1500 | 1500 |
| Overvoltage category | II | | | | | | | | | | |
| Pollution Degree | III | | | | | | | | | | |

## Part Number

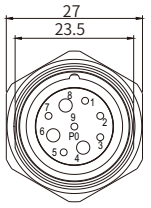
Note: *SX* refer to panel mount hole S1:PG13.5; S2:M25x1.0; S3:M25x1.5

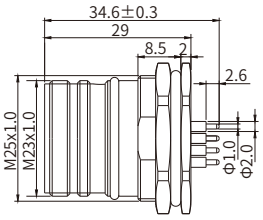
| Pins | Male | Female |
|---|---|---|
| 6A | M23-SSPSTF*Sx*06A | M23-SSSSTF*Sx*06A |
| 7A | M23-SSPSTF*Sx*07A | M23-SSSSTF*Sx*07A |
| 9A | M23-SSPSTF*Sx*09A | M23-SSSSTF*Sx*09A |
| 9B | M23-SSPSTF*Sx*09B | M23-SSSSTF*Sx*09B |
| 9C | M23-SSPSTF*Sx*09C | M23-SSSSTF*Sx*09C |
| 12A | M23-SSPSTF*Sx*12A | M23-SSSSTF*Sx*12A |
| 12B | M23-SSPSTF*Sx*12B | M23-SSSSTF*Sx*12B |
| 16A | M23-SSPSTF*Sx*16A | M23-SSSSTF*Sx*16A |
| 17A | M23-SSPSTF*Sx*17A | M23-SSSSTF*Sx*17A |
| 17B | M23-SSPSTF*Sx*17B | M23-SSSSTF*Sx*17B |
| 19A | M23-SSPSTF*Sx*19A | M23-SSSSTF*Sx*19A |

# M23 Signal

## M23 Straight Connector, Panel Mount, PCB, Front fastened, Coupling screw

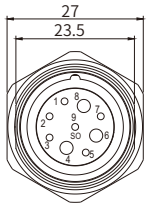
Male

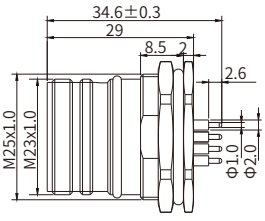



CE RoHS IP68

Female




CE RoHS IP68

## Specifications

| Contacts | 6A | 7A | 9A | 9B | 9C | 12A | 12B | 16A | 17A | 17B | 19A |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Pin layout(Male) | | | | | | | | | | | |
| Pin layout(Female) | | | | | | | | | | | |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Connector insert | PA | | | | | | | | | | |
| Connector contacts | Brass with gold plated | | | | | | | | | | |
| Coupling nut/screw | Brass with nickel plated | | | | | | | | | | |
| Seal/O-ring | FKM or NBR | | | | | | | | | | |
| Mating Endurance | >800 | | | | | | | | | | |
| Insulation resistance | ≥100MΩ | | | | | | | | | | |
| Contact resistance | ≤5mΩ | | | | | | | | | | |
| Ambient temperature | -40°C ~ +125°C | | | | | | | | | | |
| Shielding | Unavailable | | | | | | | | | | |
| IP rating | IP67, IP68 in locked condition | | | | | | | | | | |
| Panel cut-out | Refer to page 517 | | | | | | | | | | |
| PCB layout | Refer to page 517 | | | | | | | | | | |
| Number of positions | 6,7 | 9(8+1)/(6+3) | | | | 12 | | 16 | 17 | 19(16+3) | |
| Contacts | 6,7 | 8 / 6 | 1 / 3 | | | 12 | | 16 | 17 | 16 | 3 |
| Contact OD(mm) | 2.0(14AWG) | 1.0(18AWG) | 2.0(14AWG) | | | 1.0(18AWG) | | 1.0(18AWG) | 1.0(18AWG) | 1.0(18AWG) | 1.5(16AWG) |
| Rated current @ 20°C(A) | 20 | 8 | 20 | | | 8 | | 8 | 8 | 8 | 10 |
| Rated Voltage(V) | 300 | 300 | 300 | | | 160 | | 160 | 160 | 160 | 160 |
| Impulse voltage(V) | 2500 | 2500 | 2500 | | | 1500 | | 1500 | 1500 | 1500 | 1500 |
| Overvoltage category | II | | | | | | | | | | |
| Pollution Degree | III | | | | | | | | | | |

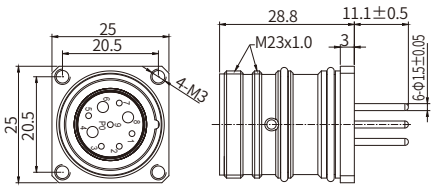
## Part Number

| Pins | Male | Female |
|---|---|---|
| 6A | M23-SSPPSTFS206A | M23-SSPSSTFS206A |
| 7A | M23-SSPPSTFS207A | M23-SSPSSTFS207A |
| 9A | M23-SSPPSTFS209A | M23-SSPSSTFS209A |
| 9B | M23-SSPPSTFS209B | M23-SSPSSTFS209B |
| 9C | M23-SSPPSTFS209C | M23-SSPSSTFS209C |
| 12A | M23-SSPPSTFS212A | M23-SSPSSTFS212A |
| 12B | M23-SSPPSTFS212B | M23-SSPSSTFS212B |
| 16A | M23-SSPPSTFS216A | M23-SSPSSTFS216A |
| 17A | M23-SSPPSTFS217A | M23-SSPSSTFS217A |
| 17B | M23-SSPPSTFS217B | M23-SSPSSTFS217B |
| 19A | M23-SSPPSTFS219A | M23-SSPSSTFS219A |

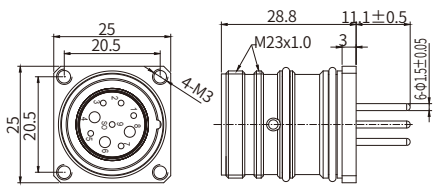
# M23 Signal

## M23 Straight Connector, Panel Mount, PCB, Front fastened, Coupling screw, with Flange

Male



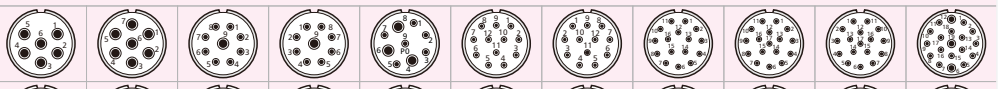
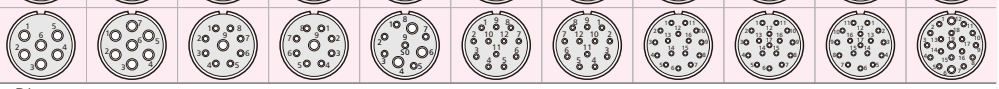

Female




CE RoHS IP68

CE RoHS IP68

## Specifications

| Contacts | 6A | 7A | 9A | 9B | 9C | 12A | 12B | 16A | 17A | 17B | 19A |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Certification | c UL us ECBT2(ECBT8).E473386 | | | | | | | | | | |
| Pin layout(Male) |  | | | | | | | | | | |
| Pin layout(Female) |  | | | | | | | | | | |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Connector insert | PA | | | | | | | | | | |
| Connector contacts | Brass with gold plated | | | | | | | | | | |
| Coupling nut/screw | Brass with nickel plated | | | | | | | | | | |
| Seal/O-ring | FKM or NBR | | | | | | | | | | |
| Mating Endurance | >800 | | | | | | | | | | |
| Insulation resistance | ⩾100MΩ | | | | | | | | | | |
| Contact resistance | ⩽5mΩ | | | | | | | | | | |
| Ambient temperature | -40°C ~ +125°C | | | | | | | | | | |
| Shielding | Unavailable | | | | | | | | | | |
| IP rating | IP67, IP68 in locked condition | | | | | | | | | | |
| Panel cut-out | Refer to page 517 | | | | | | | | | | |
| PCB layout | Refer to page 517 | | | | | | | | | | |
| Number of positions | 6,7 | | 9(8+1)/(6+3) | | | 12 | | 16 | 17 | 19(16+3) | |
| Contacts | 6,7 | | 8 / 6 | 1 / 3 | | 12 | | 16 | 17 | 16 | 3 |
| Contact OD(mm) | 2.0(14AWG) | | 1.0(18AWG) | 2.0(14AWG) | | 1.0(18AWG) | | 1.0(18AWG) | 1.0(18AWG) | 1.0(18AWG) | 1.5(16AWG) |
| Rated current @ 20°C(A) | 20 | | 8 | 20 | | 8 | | 8 | 8 | 8 | 10 |
| Rated Voltage(V) | 300 | | 300 | 300 | | 160 | | 160 | 160 | 160 | 160 |
| Impulse voltage(V) | 2500 | | 2500 | 2500 | | 1500 | | 1500 | 1500 | 1500 | 1500 |
| Overvoltage category | II | | | | | | | | | | |
| Pollution Degree | III | | | | | | | | | | |

## Part Number

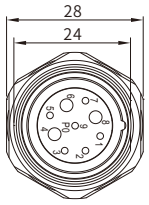
Note: *FX* refer to panel mount hole F1:Φ2.7; F2: M2.5;F3:Φ3.2; F4: M3.0

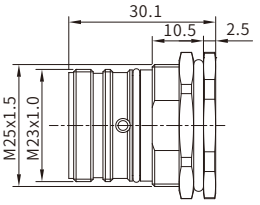
| Pins | Male | Female |
|---|---|---|
| 6A | M23-SSPPSTF*Fx*06A | M23-SSPSSTF*Fx*06A |
| 7A | M23-SSPPSTF*Fx*07A | M23-SSPSSTF*Fx*07A |
| 9A | M23-SSPPSTF*Fx*09A | M23-SSPSSTF*Fx*09A |
| 9B | M23-SSPPSTF*Fx*09B | M23-SSPSSTF*Fx*09B |
| 9C | M23-SSPPSTF*Fx*09C | M23-SSPSSTF*Fx*09C |
| 12A | M23-SSPPSTF*Fx*12A | M23-SSPSSTF*Fx*12A |
| 12B | M23-SSPPSTF*Fx*12B | M23-SSPSSTF*Fx*12B |
| 16A | M23-SSPPSTF*Fx*16A | M23-SSPSSTF*Fx*16A |
| 17A | M23-SSPPSTF*Fx*17A | M23-SSPSSTF*Fx*17A |
| 17B | M23-SSPPSTF*Fx*17B | M23-SSPSSTF*Fx*17B |
| 19A | M23-SSPPSTF*Fx*19A | M23-SSPSSTF*Fx*19A |

# M23 Signal

## M23 Straight Connector, Panel Mount, Crimp, Front fastened, Coupling screw

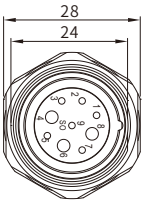
Male

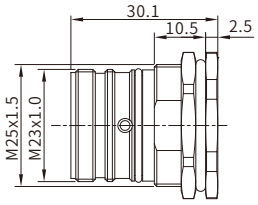



CE RoHS IP68

Female




CE RoHS IP68

## Specifications

| Contacts | 6A | 7A | 9A | 9B | 9C | 12A | 12B | 16A | 17A | 17B | 19A | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pin layout(Male) | | | | | | | | | | | | |
| Pin layout(Female) | | | | | | | | | | | | |
| Connector insert | PA | | | | | | | | | | | |
| Connector contacts | Brass with gold plated | | | | | | | | | | | |
| Coupling nut/screw | Brass with nickel plated | | | | | | | | | | | |
| Seal/O-ring | FKM or NBR | | | | | | | | | | | |
| Mating Endurance | >800 | | | | | | | | | | | |
| Insulation resistance | ⩾100MΩ | | | | | | | | | | | |
| Contact resistance | ⩽5mΩ | | | | | | | | | | | |
| Ambient temperature | -40°C ~ +125°C | | | | | | | | | | | |
| Shielding | Unavailable | | | | | | | | | | | |
| IP rating | IP67, IP68 in locked condition | | | | | | | | | | | |
| Panel cut-out | Refer to page 517 | | | | | | | | | | | |
| Number of positions | 6,7 | | 9(8+1)/(6+3) | | | 12 | | 16 | 17 | | 19(16+3) | |
| Contacts | 6,7 | | 8 / 6 | | 1 / 3 | 12 | | 16 | 17 | | 16 | 3 |
| Contact OD(mm) | 2.0(14AWG) | | 1.0(18AWG) | | 2.0(14AWG) | 1.0(18AWG) | | 1.0(18AWG) | 1.0(18AWG) | | 1.0(18AWG) | 1.5(16AWG) |
| Rated current @ 20°C(A) | 20 | | 8 | | 20 | 8 | | 8 | 8 | | 8 | 10 |
| Rated Voltage(V) | 300 | | 300 | | 300 | 160 | | 160 | 160 | | 160 | 160 |
| Impulse voltage(V) | 2500 | | 2500 | | 2500 | 1500 | | 1500 | 1500 | | 1500 | 1500 |
| Overvoltage category | II | | | | | | | | | | | |
| Pollution Degree | III | | | | | | | | | | | |

## Part Number

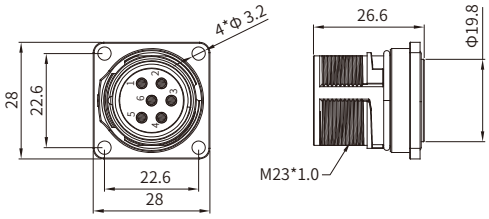
Note: *SX* refer to panel mount hole S1:PG13.5; S2:M25x1.0; S3:M25x1.5

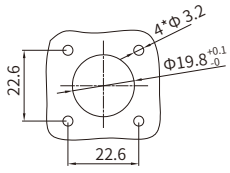
| Pins | Male | Female |
|---|---|---|
| 6A | M23-SSCPSTF*Sx*06A | M23-SSCSSTF*Sx*06A |
| 7A | M23-SSCPSTF*Sx*07A | M23-SSCSSTF*Sx*07A |
| 9A | M23-SSCPSTF*Sx*09A | M23-SSCSSTF*Sx*09A |
| 9B | M23-SSCPSTF*Sx*09B | M23-SSCSSTF*Sx*09B |
| 9C | M23-SSCPSTF*Sx*09C | M23-SSCSSTF*Sx*09C |
| 12A | M23-SSCPSTF*Sx*12A | M23-SSCSSTF*Sx*12A |
| 12B | M23-SSCPSTF*Sx*12B | M23-SSCSSTF*Sx*12B |
| 16A | M23-SSCPSTF*Sx*16A | M23-SSCSSTF*Sx*16A |
| 17A | M23-SSCPSTF*Sx*17A | M23-SSCSSTF*Sx*17A |
| 17B | M23-SSCPSTF*Sx*17B | M23-SSCSSTF*Sx*17B |
| 19A | M23-SSCPSTF*Sx*19A | M23-SSCSSTF*Sx*19A |

# M23 Signal

## M23 Straight Connector, Panel Mount, Crimp type, Front fastened

Male




Installation dimensions

CE RoHS IP68

## Specifications

| Contacts | 6A | 7A | 9A | 9B | 9C | 12A | 12B | 16A | 17A | 17B | 19A |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Pin layout(Male) | | | | | | | | | | | |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Connector insert | PA | | | | | | | | | | | |
| Connector contacts | Brass with gold plated | | | | | | | | | | | |
| Coupling nut/screw | Brass with nickel plated | | | | | | | | | | | |
| Seal/O-ring | FKM or NBR | | | | | | | | | | | |
| Mating Endurance | >800 | | | | | | | | | | | |
| Insulation resistance | ⩾100MΩ | | | | | | | | | | | |
| Contact resistance | ⩽5mΩ | | | | | | | | | | | |
| Ambient temperature | -40°C ~ +125°C | | | | | | | | | | | |
| Shielding | Unavailable | | | | | | | | | | | |
| IP rating | IP67, IP68 in locked condition | | | | | | | | | | | |
| Number of positions | 6,7 | 9(8+1)/(6+3) | | | | 12 | | 16 | 17 | | 19(16+3) | |
| Contacts | 6,7 | 8 / 6 | 1 / 3 | | | 12 | | 16 | 17 | | 16 | 3 |
| Contact OD(mm) | 2.0(14AWG) | 1.0(18AWG) | 2.0(14AWG) | | | 1.0(18AWG) | | 1.0(18AWG) | 1.0(18AWG) | | 1.0(18AWG) | 1.5(16AWG) |
| Rated current @ 20°C(A) | 20 | 8 | 20 | | | 8 | | 8 | 8 | | 8 | 10 |
| Rated Voltage(V) | 300 | 300 | 300 | | | 160 | | 160 | 160 | | 160 | 160 |
| Impulse voltage(V) | 2500 | 2500 | 2500 | | | 1500 | | 1500 | 1500 | | 1500 | 1500 |
| Overvoltage category | II | | | | | | | | | | | |
| Pollution Degree | III | | | | | | | | | | | |

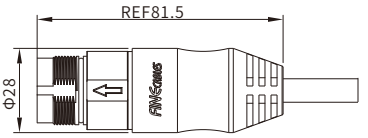
## Part Number

| Pins | Male |
|---|---|
| 6A | M23-SSCPSTFF306A |
| 7A | M23-SSCPSTFF307A |
| 9A | M23-SSCPSTFF309A |
| 9B | M23-SSCPSTFF309B |
| 9C | M23-SSCPSTFF309C |
| 12A | M23-SSCPSTFF312A |
| 12B | M23-SSCPSTFF312B |
| 16A | M23-SSCPSTFF316A |
| 17A | M23-SSCPSTFF317A |
| 17B | M23-SSCPSTFF317B |
| 19A | M23-SSCPSTFF319A |

# M23 Power

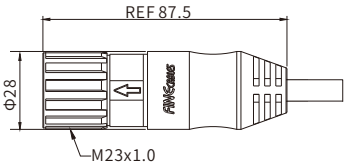
## M23 Straight Connector, Molded Cable, Crimp Coupling screw/nut

Male




CE RoHS

Female




CE RoHS

## Specifications

| Contacts | 6(5+PE) | 8(4+3+PE) | | |
|---|---|---|---|---|
| Pin layout(Male) | | | | |
| Pin layout(Female) | | | | |
| Connector overmold | TPU | | | |
| Connector insert | PA | | | |
| Connector contacts | Brass with gold plated | | | |
| Coupling screw | Zinc alloy with nickel plated | | | |
| Seal / O-ring | FKM or NBR | | | |
| Mating Endurance | >800 | | | |
| Insulation resistance | ⩾1000MΩ | | | |
| Contact resistance | ⩽5mΩ | | | |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | | | |
| Shielding | Available/Unavailable | | | |
| IP rating | IP68 in locked condition | | | |
| Cable OD range | 2.0~13 | | | |
| Number of positions | 6(5+PE) | 8(4+3+PE) | | |
| Contacts | 5+PE | 4 | 3 | PE |
| Contact OD(mm) | 2.0(0.25~4.0mm²) | 1.0(0.08~1.0mm²) | 2.0(0.25~4.0mm²) | |
| Rated current @ 20°C(A) | 30 | 9 | 30 | |
| Rated Voltage(V) | 630 | 250 | 630 | |
| Impulse voltage(V) | 6000 | 4000 | 6000 | |
| Overvoltage category | II | | | |
| Pollution Degree | III | | | |
| Default wire colors | Refer to page 509 | | | |

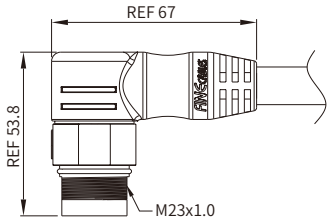
## Part Number

| Pins | Cable length | Connection Type | Male | | Female | |
|---|---|---|---|---|---|---|
| | | | PVC | PUR | PVC | PUR |
| 6(5+PE) | 3m | Unshielded | M23-MPSPST06A-C30 | M23-MPSPST06A-A30 | M23-MPNSST06A-C30 | M23-MPNSST06A-A30 |
| | 3m | Shielded | M23-MPSSPST06A-C30 | M23-MPSSPST06A-A30 | M23-MPNSSST06A-C30 | M23-MPNSSST06A-A30 |
| 8(4+3+PE) | 3m | Unshielded | M23-MPSPST08A-C30 | M23-MPSPST08A-A30 | M23-MPNSST08A-C30 | M23-MPNSST08A-A30 |
| | 3m | Shielded | M23-MPSSPST08A-C30 | M23-MPSSPST08A-A30 | M23-MPNSSST08A-C30 | M23-MPNSSST08A-A30 |

# M23 Power

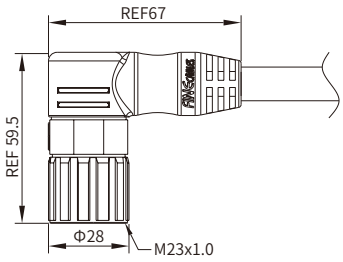
## M23 Right Angle Connector, Molded Cable, Crimp Coupling screw/nut

Male




CE RoHS

Female




CE RoHS

## Specifications

| Contacts | 6(5+PE) | 8(4+3+PE) | | |
|---|---|---|---|---|
| Pin layout(Male) | | | | |
| Pin layout(Female) | | | | |
| Connector overmold | TPU | | | |
| Connector insert | PA | | | |
| Connector contacts | Brass with gold plated | | | |
| Coupling screw | Zinc alloy with nickel plated | | | |
| Seal / O-ring | FKM or NBR | | | |
| Mating Endurance | >800 | | | |
| Insulation resistance | ⩾1000MΩ | | | |
| Contact resistance | ⩽5mΩ | | | |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | | | |
| Shielding | Available/Unavailable | | | |
| IP rating | IP68 in locked condition | | | |
| Cable OD range | 2.0~13 | | | |
| Number of positions | 6(5+PE) | 8(4+3+PE) | | |
| Contacts | 5+PE | 4 | 3 | PE |
| Contact OD(mm) | 2.0(0.25~4.0mm$^2$) | 1.0(0.08~1.0mm$^2$) | 2.0(0.25~4.0mm$^2$) | |
| Rated current @ 20°C(A) | 30 | 9 | 30 | |
| Rated Voltage(V) | 630 | 250 | 630 | |
| Impulse voltage(V) | 6000 | 4000 | 6000 | |
| Overvoltage category | II | | | |
| Pollution Degree | III | | | |
| Default wire colors | Refer to page 509 | | | |

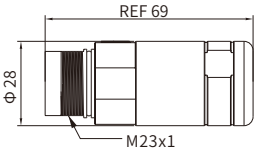
## Part Number

| Pins | Cable length | Connection Type | Male | | Female | |
|---|---|---|---|---|---|---|
| | | | PVC | PUR | PVC | PUR |
| 6(5+PE) | 3m | Unshielded | M23-MPSPRA06A-C30 | M23-MPSPRA06A-A30 | M23-MPNSRA06A-C30 | M23-MPNSRA06A-A30 |
| | 3m | Shielded | M23-MPSSPRA06A-C30 | M23-MPSSPRA06A-A30 | M23-MPNSSRA06A-C30 | M23-MPNSSRA06A-A30 |
| 8(4+3+PE) | 3m | Unshielded | M23-MPSPRA08A-C30 | M23-MPSPRA08A-A30 | M23-MPNSRA08A-C30 | M23-MPNSRA08A-A30 |
| | 3m | Shielded | M23-MPSSPRA08A-C30 | M23-MPSSPRA08A-A30 | M23-MPNSSRA08A-C30 | M23-MPNSSRA08A-A30 |

# M23 Power

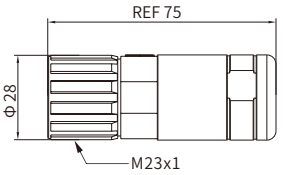
## M23 Straight Connector, Assembly, Crimp Coupling screw/nut

Male




CE RoHS

Female




CE RoHS

## Specifications

| Contacts | 6(5+PE) | 8(4+3+PE) | | |
|---|---|---|---|---|
| Certification | cULus ECBT2(ECBT8).E473386 | | | |
| Pin layout(Male) | | | | |
| Pin layout(Female) | | | | |
| Connector insert | PA | | | |
| Connector contacts | Brass with gold plated | | | |
| Coupling nut/screw | Zinc alloy with nickel plated | | | |
| Connector body | Zinc alloy with nickel plated | | | |
| Seal / O-ring | FKM or NBR | | | |
| Mating Endurance | >800 | | | |
| Insulation resistance | ⩾1000MΩ | | | |
| Contact resistance | ⩽5mΩ | | | |
| Ambient temperature | -40°C ~ +125°C | | | |
| Shielding | Available | | | |
| IP rating | IP68 in locked condition | | | |
| Cable OD range | 2.0~16 | | | |
| Assembly Instruction | Refer to page 513~514 | | | |
| Number of positions | 6(5+PE) | 8(4+3+PE) | | |
| Contacts | 5+PE | 4 | 3 | PE |
| Contact OD(mm) | 2.0(0.25~4.0mm²) | 1.0(0.08~1.0mm²) | 2.0(0.25~4.0mm²) | |
| Rated current @ 20°C(A) | 30 | 9 | 30 | |
| Rated Voltage(V) | 630 | 250 | 630 | |
| Impulse voltage(V) | 6000 | 4000 | 6000 | |
| Overvoltage category | II | | | |
| Pollution Degree | III | | | |

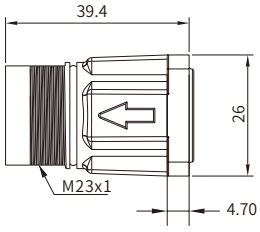
## Part Number

| Pins | Cable OD Range | Male | Female |
|---|---|---|---|
| 6(5+PE) | 5.0~6.0 | M23-PSSPST06A-01 | M23-PNSSST06A-01 |
| | 6.0~7.0 | M23-PSSPST06A-02 | M23-PNSSST06A-02 |
| | 7.0~8.0 | M23-PSSPST06A-03 | M23-PNSSST06A-03 |
| | 8.0~9.0 | M23-PSSPST06A-04 | M23-PNSSST06A-04 |
| | 9.0~10.0 | M23-PSSPST06A-05 | M23-PNSSST06A-05 |
| 8(4+3+PE) | 5.0~6.0 | M23-PSSPST08A-01 | M23-PNSSST08A-01 |
| | 6.0~7.0 | M23-PSSPST08A-02 | M23-PNSSST08A-02 |
| | 7.0~8.0 | M23-PSSPST08A-03 | M23-PNSSST08A-03 |
| | 8.0~9.0 | M23-PSSPST08A-04 | M23-PNSSST08A-04 |
| | 9.0~10.0 | M23-PSSPST08A-05 | M23-PNSSST08A-05 |

# M23 Power

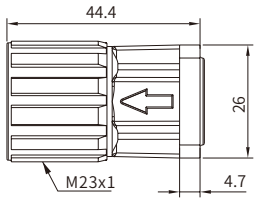
## M23 Straight Connector, Panel Mount, Crimp, Coupling screw/nut

Male




CE RoHS

Female




CE RoHS

## Specifications

| Contacts | 6(5+PE) | 8(4+3+PE) | | |
|---|---|---|---|---|
| Certification | c UL us ECBT2(ECBT8).E473386 | | | |
| Pin layout(Male) | | | | |
| Pin layout(Female) | | | | |
| Connector insert | PA | | | |
| Connector contacts | Brass with gold plated | | | |
| Coupling nut/screw | Zinc alloy with nickel plated | | | |
| Connector body | Zinc alloy with nickel plated | | | |
| Seal / O-ring | FKM or NBR | | | |
| Mating Endurance | >800 | | | |
| Insulation resistance | ⩾1000MΩ | | | |
| Contact resistance | ⩽5mΩ | | | |
| Ambient temperature | -40°C ~ +125°C | | | |
| Shielding | Unavailable | | | |
| IP rating | IP68 in locked condition | | | |
| Cable OD range | 2.0~16 | | | |
| Assembly Instruction | Refer to page 514~515 | | | |
| Number of positions | 6(5+PE) | 8(4+3+PE) | | |
| Contacts | 5+PE | 4 | 3 | PE |
| Contact OD(mm) | 2.0(0.25~4.0mm²) | 1.0(0.08~1.0mm²) | 2.0(0.25~4.0mm²) | |
| Rated current @ 20°C(A) | 30 | 9 | 30 | |
| Rated Voltage(V) | 630 | 250 | 630 | |
| Impulse voltage(V) | 6000 | 4000 | 6000 | |
| Overvoltage category | II | | | |
| Pollution Degree | III | | | |

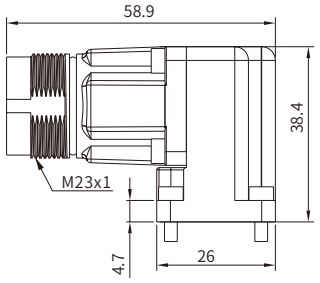
## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | UL1007 | UL1015 | UL1007 | UL1015 |
| 6(5+PE) | 0.3m | M23-PSPSTFF306A- I 03 | M23-PSPSSTFF306A- II 03 | M23-PNSSTFF306A- I 03 | M23-PNSSTFF306A- II 03 |
| 8(4+3+PE) | 0.3m | M23-PSPSTFF308A- I 03 | M23-PSPSSTFF308A- II 03 | M23-PNSSTFF308A- I 03 | M23-PNSSTFF308A- II 03 |

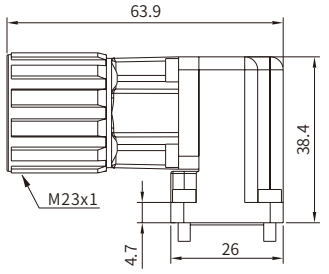
# M23 Power

## M23 Right Angle Connector, Panel Mount, Crimp, Coupling screw/nut

Male




Female




## Specifications

| Contacts | 6(5+PE) | 8(4+3+PE) | | |
|---|---|---|---|---|
| Certification | ECBT2(ECBT8).E473386 | | | |
| Pin layout(Male) | | | | |
| Pin layout(Female) | | | | |
| Connector insert | PA | | | |
| Connector contacts | Brass with gold plated | | | |
| Coupling nut/screw | Zinc alloy with nickel plated | | | |
| Connector body | Zinc alloy with nickel plated | | | |
| Seal / O-ring | FKM or NBR | | | |
| Mating Endurance | >800 | | | |
| Insulation resistance | ⩾1000MΩ | | | |
| Contact resistance | ⩽5mΩ | | | |
| Ambient temperature | -40°C ~ +125°C | | | |
| Shielding | Unavailable | | | |
| IP rating | IP68 in locked condition | | | |
| Cable OD range | 2.0~16 | | | |
| Assembly Instruction | Refer to page 515~516 | | | |
| Number of positions | 6(5+PE) | 8(4+3+PE) | | |
| Contacts | 5+PE | 4 | 3 | PE |
| Contact OD(mm) | 2.0(0.25~4.0mm²) | 1.0(0.08~1.0mm²) | 2.0(0.25~4.0mm²) | |
| Rated current @ 20°C(A) | 30 | 9 | 30 | |
| Rated Voltage(V) | 630 | 250 | 630 | |
| Impulse voltage(V) | 6000 | 4000 | 6000 | |
| Overvoltage category | II | | | |
| Pollution Degree | III | | | |

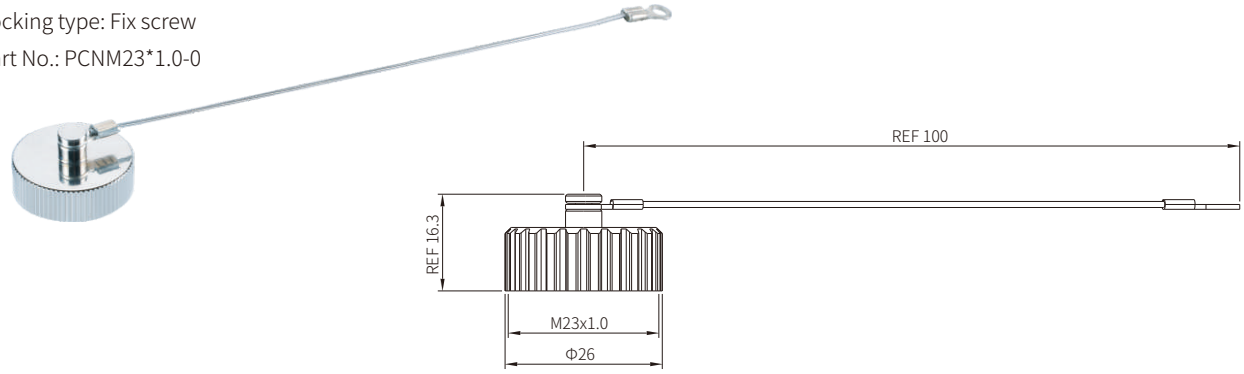
## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | UL1007 | UL1015 | UL1007 | UL1015 |
| 6(5+PE) | 0.3m | M23-PSPRAFF306A- I 03 | M23-PSPSRAFF306A- II 03 | M23-PNSRAFF306A- I 03 | M23-PNSRAFF306A- II 03 |
| 8(4+3+PE) | 0.3m | M23-PSPRAFF308A- I 03 | M23-PSPSRAFF308A- II 03 | M23-PNSRAFF308A- I 03 | M23-PNSRAFF308A- II 03 |

# M23 Protection Cap

## ■ M23 Metal Protection Cap for male

- Connector series: M23
- Gender: Male
- Locking type: Fix screw
- Part No.: PCNM23*1.0-0

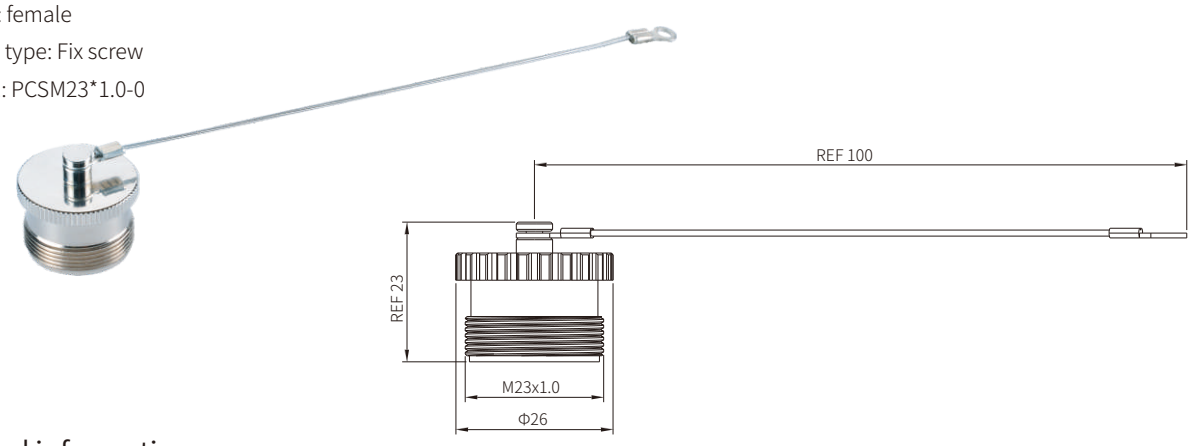



## ■ General information

| | |
|---|---|
| Cap: | Aluminium alloy with nickel plated |
| Dowel: | Ferrum with nickel plated |
| Wire: | Stainless steel wire |
| Terminal : | M3 R type terminal (RNB1-3.2) |
| Gasket: | Black NBR |
| IP rating: | IP68 in locked condition |

## ■ M23 Metal Protection Cap for female

- Connector series: M23
- Gender: female
- Locking type: Fix screw
- Part No.: PCSM23*1.0-0




## ■ General information

| | |
|---|---|
| Cap: | Aluminium alloy with nickel plated |
| Dowel: | Ferrum with nickel plated |
| Wire: | Stainless steel wire |
| Terminal : | M3 R type terminal (RNB1-3.2) |
| O-Ring: | FKM |
| IP rating: | IP68 in locked condition |

# M23 Signal Connector Accessories

| Type | Part number | Accessories |
| --- | --- | --- |
| Assembly tool for M23 singal connectors<br>For connectors with female thread | M23-TOOL-1 | |

| Type | Part number | Accessories |
| --- | --- | --- |
| Assembly tool for M23 singal connectors<br>For connectors with male thread | M23-TOOL-2 | |

# M23 Default wire colors

## ■ M23 Signal Default wire colors（Molded&Panel Connector）

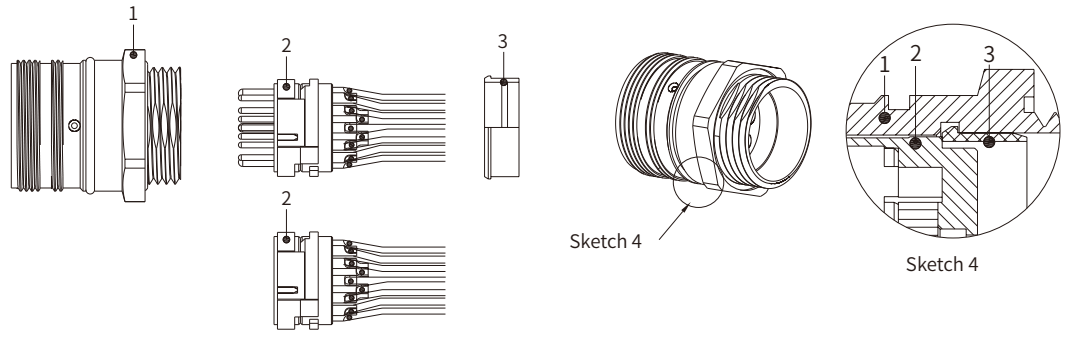
| Pin No. | | | | | | | |
|---|---|---|---|---|---|---|---|
| Pin 1 | RD | WH | BN | WH | VT | BN | VT |
| Pin 2 | BK | GN | WH | BN | RD | BU | RD |
| Pin 3 | WH | YE | BU | GN | GY | WH | GY |
| Pin 4 | GN | GY | BK | YE | RD/BU | GN | RD/BU |
| Pin 5 | GY | PK | GY | GY | GN | PK | GN |
| Pin 6 | PK | RD | YE | PK | BU | YE | BU |
| Pin 7 | | BK | GN | BU | GY/PL | BK | GU/PK |
| Pin 8 | | | RD | RD | WH/GN | GY | GN/WH |
| Pin 9 | | | PK | OR | WH/YE | RD | YE/WH |
| Pin 10 | | | | VT | WH/GY | VT | GY/WH |
| Pin 11 | | | | BK | BK | GY/PK | BK |
| Pin 12 | | | | TP | GN/YE | RD/BU | GN/YE |
| Pin 13 | | | | | YE/BN | WH/GN | PK |
| Pin 14 | | | | | WH | BN/YE | BN/GY |
| Pin 15 | | | | | YE | WH/YE | BN/YE |
| Pin 16 | | | | | | YE/BN | BN/GN |
| Pin 17 | | | | | | WH/GY | WH |
| Pin 18 | | | | | | | YE |
| Pin 19 | | | | | | | BN |

## ■ M23 Power Default wire colors（Molded&Panel Connector）

| Pin No. | | Pin No. | |
|---|---|---|---|
| Pin 1 | OR | Pin 1 | BN |
| Pin 2 | BN | PE | WH |
| PE | GN | Pin 3 | BU |
| Pin 4 | RD | Pin 4 | BK |
| Pin 5 | YE | A | YE |
| Pin 6 | BK | B | GN |
| | | C | GY |
| | | D | RD |

# M23 Signal Assembly Instruction

## ■ M23 Signal Solder Panel Type Assembly Instruction



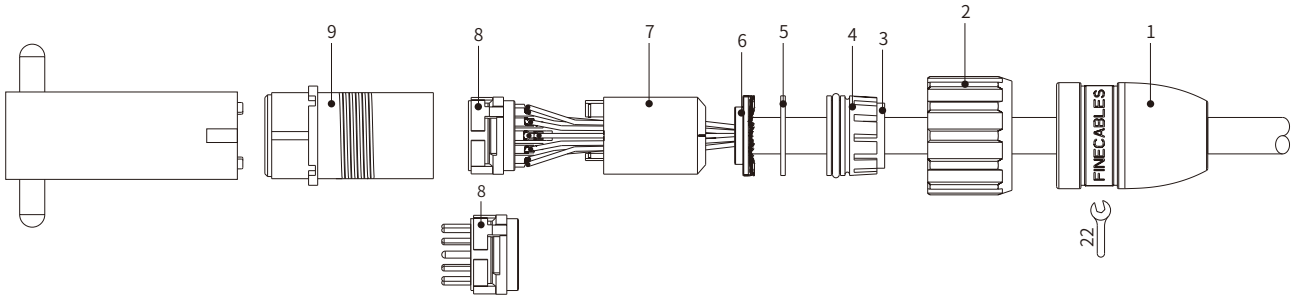

Assembly Instructions:

a,Solder the wires to contact cup.

b,Guide the insert 2 into the screw 1.

c,Push the Fastening 3 into the screw 1 to reach snap-fit locking as per sketch 4.

## ■ Straight Connector, Female Thread, Solder type




Assembly instructions:

a.Push the adapter 1nut 2 and the sealing element 4 with gasket 3 and metallic gasket 5 over the cable sheath;

b.Strip the external sheath to a length of 24mm;

c.Push back the shielding screen such that it stands out at 90 ° and cut it flush with the outer diameter of the shield  disc 6;

d.Strip the wires to a length of 2.5mm,twist and tin plate;

e.Solder the wires to the contacts;

f.Insert the spacer sleeve 7;

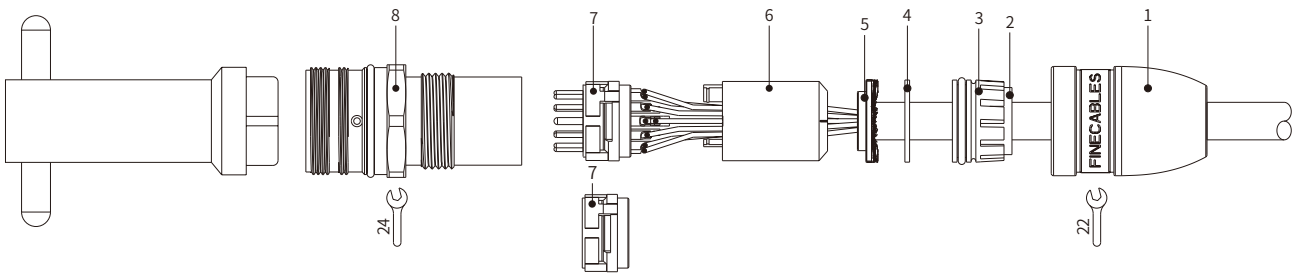
g.Guide the insert 8 and spacer sleeve 7 into the insert sleeve 9;

h.Press in the cable with the shield and sealing unit;

i.Screw the adapter 1 as tight as possible;

# M23 Signal Assembly Instruction

## ■ Straight Connector, Male Thread, Solder type




**Assembly instructions:**

a.Push the adapter 1 and the sealing element 3 with gasket 2 and metallic gasket 4 over the cable sheath;

b.Strip the external sheath to a length of 24mm;

c.Push back the shielding screen such that it stands out at 90° and cut it flush with the outer diameter of the shield disc 5;

d.Strip the wires to a length of 2.5mm,twist and tin plate;

e.Solder the wires to the contacts;

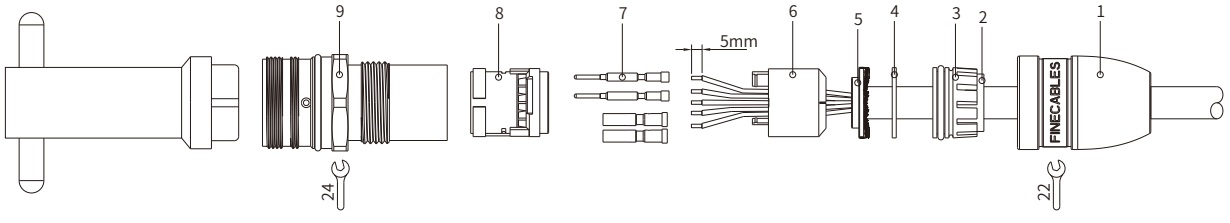
f.Insert the spacer sleeve 6;

g.Guide the insert 7 and spacer sleeve 6 into the insert sleeve 8;

h.Press in the cable with the shield and sealing unit;

i.Screw the adapter 1 as tight as possible;

## ■ Straight Connector, Male Thread, Crimp type




**Assembly instructions:**

a.Push the adapter 1 and the sealing element 3 with gasket 2 and metallic gasket 4 over the cable sheath;

b.Strip the external sheath to a length of 20mm;

c.Push back the shielding screen such that it stands out at 90°and cut it flush with the outer diameter of the shield disc 5;

d.Strip the wires to a length of 5.0mm;

e.Crimp the wires to the contacts 7;

f.Insert the spacer sleeve 6;

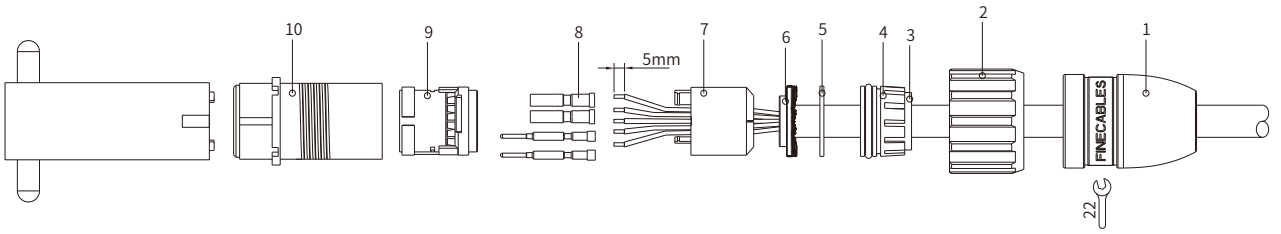
g.Guide the insert 8 and spacer sleeve 6 into the insert sleeve 9;

h.Press in the cable with the shield and sealing unit;

i.Screw the adapter 1 as tight as possible;

# M23 Signal Assembly Instruction

## Straight Connector, Female Thread, Crimp type




**Assembly instructions:**

a.Push the adapter 1nut 2 and the sealing element 4 with gasket 3 and metallic gasket 5 over the cable sheath;

b.Strip the external sheath to a length of 20mm;

c.Push back the shielding screen such that it stands out at 90°and cut it flush with the outer diameter of the shield  disc 6;

d.Strip the wires to a length of 5.0mm;

e.Cripm the wires to the contacts 8;

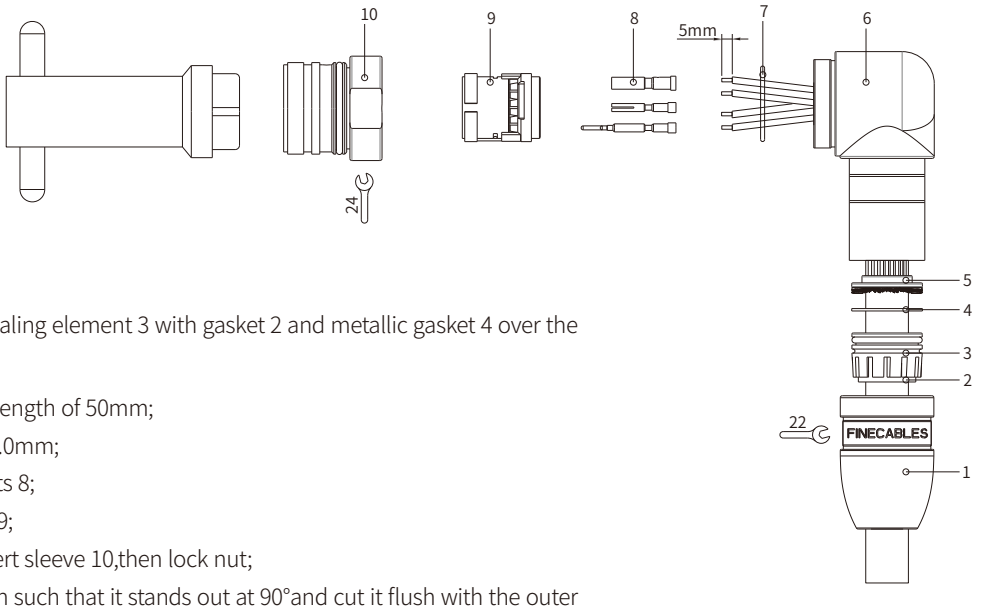
f.Insert the spacer sleeve 7;

g.Guide the insert 9 and spacer sleeve 7 into the insert sleeve 10;

h.Press in the cable with the shield and sealing unit;

i.Screw the adapter 1 as tight as possible;

## Right Angle Connector, Male Thread, Crimp type




**Assembly instructions:**

a. Push the adapter 1 and the sealing element 3 with gasket 2 and metallic gasket 4 over the cable sheath;

b. Strip the external sheath to a length of 50mm;

c. Strip the wires to a length of 5.0mm;

d. Cripm the wires to the contacts 8;

e. Contacts 8 insert the housing 9;

f. Guide the insert  9 into the insert sleeve 10,then lock nut;

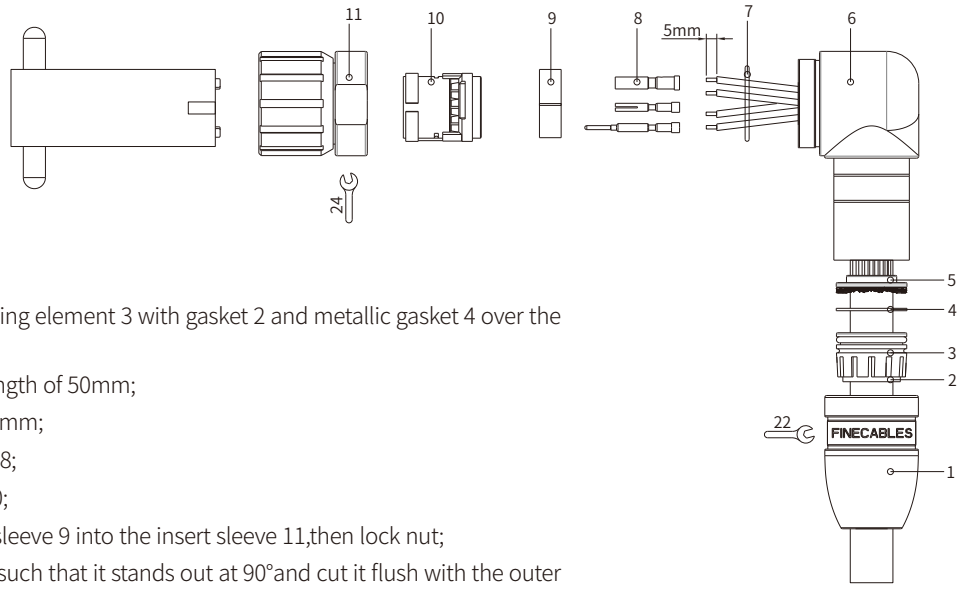
g. Push back the shielding screen such that it stands out at 90°and cut it flush with the outer diameter of the shield  disc 5;

h. Press in the cable with the shield and sealing unit;

I. Screw the adapter 1 as tight as possible;

# M23 Signal Assembly Instruction

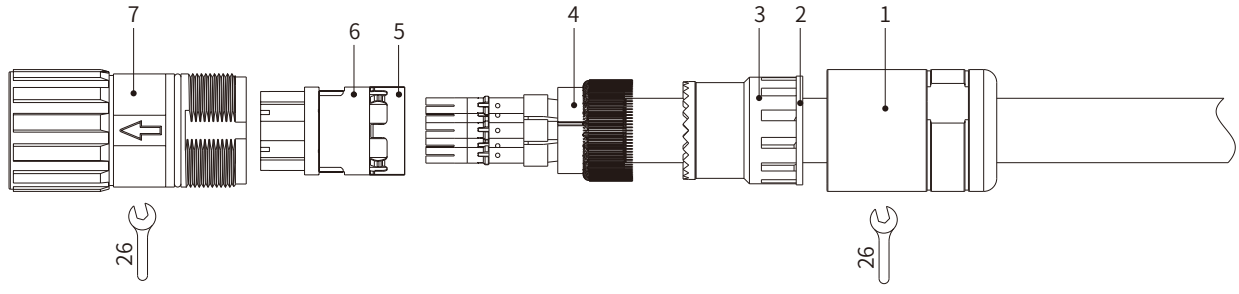
## ■ Right Angle Connector, Female Thread, Crimp type




### Assembly instructions:

a. Push the adapter 1 and the sealing element 3 with gasket 2 and metallic gasket 4 over the cable sheath;
b. Strip the external sheath to a length of 50mm;
c. Strip the wires to a length of 5.0mm;
d. Cripm the wires to the contacts 8;
e. Contacts 8 insert the housing 10;
f. Guide the insert 10 and spacer sleeve 9 into the insert sleeve 11,then lock nut;
g. Push back the shielding screen such that it stands out at 90°and cut it flush with the outer diameter of the shield disc 5;
h. Press in the cable with the shield and sealing unit;
i. Screw the adapter 1 as tight as possible;

## ■ M23 Power Straight Connector, Female Thread, Crimp type

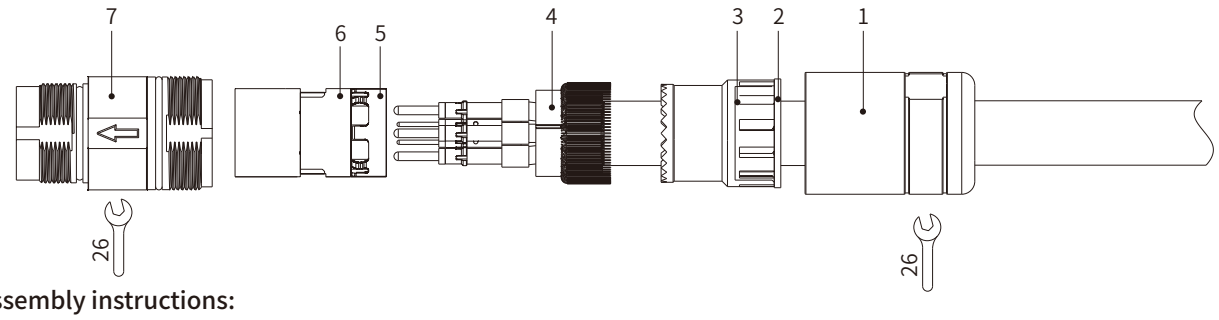



### Assembly instructions:

a. Push the adapter 1 and the sealing element 3 with gasket 2 onto the cable;
b. Strip the external sheath:30mm;
c. Trim and remove the foil, wadding and inner insulation;
d. Unbraid the braided screen and push it back;
e. Strip the conductors insulation:9.0mm;
f. Crimp the conductors to the contacts;
g. Insert the contacts into contact carrier 6;
h.Snap-fit earth spring 5 onto the contact carrier 6
i. Open the spacer sleeve 4, fit it before the braided screen and clip them together;
j. Guide the contact carrier 6 and the space sleeve 4 into the insert sleeve 7;
k. Push up the braided screen and slide the sealing element 3 with the braided screen firmly against the space sleeve 4 until the teeth lock;
l. Cut the shielding to length if necessary and twist the remaining shielding into the space provided 3;
m. Screw the adapter 1 as tight as possible.

# M23 Power Assembly Instruction

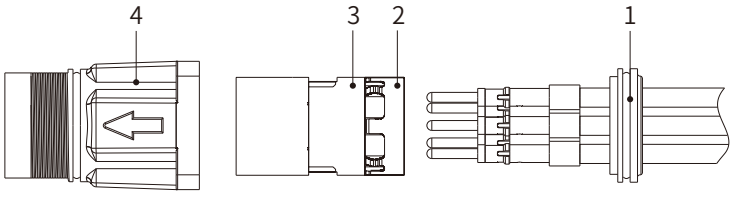
## ■ Straight Connector, Male Thread, Crimp type

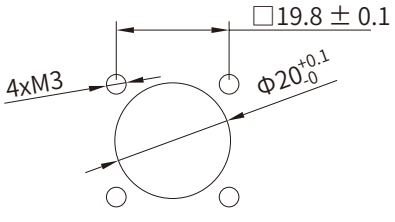



**Assembly instructions:**

a. Push the adapter 1 and the sealing element 3 with gasket 2 onto the cable;
b. Strip the external sheath:30mm;
c. Trim and remove the foil, wadding and inner insulation;
d. Unbraid the braided screen and push it back;
e. Strip the conductors insulation:9.0mm;
f. Crimp the conductors to the contacts;
g. Insert the contacts into contact carrier 6;
h. Snap-fit earth spring 5 onto the contact carrier 6
i. Open the spacer sleeve 4, fit it before the braided screen and clip them together;
j. Guide the contact carrier 6 and the space sleeve 4 into the insert sleeve 7;
k. Push up the braided screen and slide the sealing element 3 with the braided screen firmly against the space sleeve 4 until the teeth lock;
l. Cut the shielding to length if necessary and twist the remaining shielding into the space provided 3;
m. Screw the adapter 1 as tight as possible.

## ■ Straight Connector, Male Thread, Crimp type



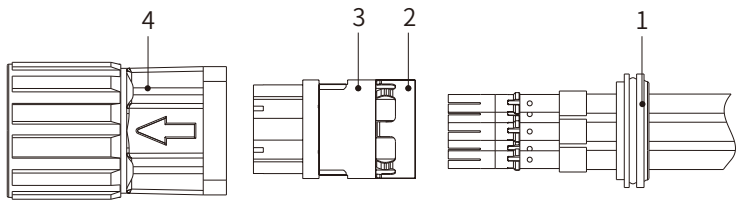

Installation dimensions

**Assembly instructions:**

a.Strip the wires insulation: 9.0mm;
b.Crimp the conductors to the contacts;
c.Insert the contacts into contact carrier 3;
d.Snap-fit earth spring 2 onto the contact carrier 3
e.Guaid the wires through the support ring 1;
f.Guaid the contact carrier 3 into the insert sleeve 4;
g.Insert the support ring 1 in the sleeve 4;
h.Fasten the assembled connectors to the mounting panel using screws(M3*0.5).

# M23 Power Assembly Instruction

## ■ Straight Connector, Female Thread, Crimp type




**Assembly instructions:**

a.Strip the wires insulation: 9.0mm;

b.Crimp the conductors to the contacts;

c.Insert the contacts into contact carrier 3;

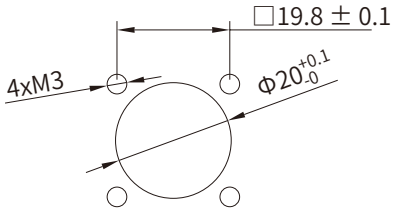
d.Snap-fit earth spring 2 onto the contact carrier 3

e.Guaid the wires through the support ring 1;

f.Guaid the contact carrier 3 into the insert sleeve 4;

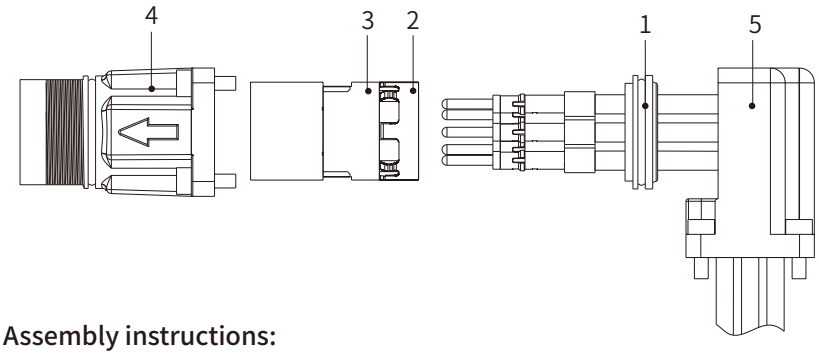
g.Insert the support ring 1 in the sleeve 4;

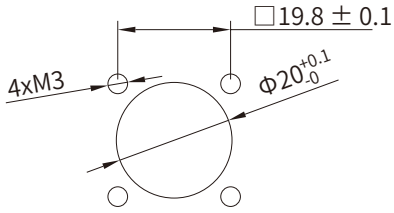
h.Fasten the assembled connectors to the mounting panel using screws(M3*0.5).




Installation dimensions

## ■ Angled Connector, Male Thread, Crimp type




Installation dimensions

**Assembly instructions:**

a.Strip the wires insulation:9.0mm;

b.Crimp the conductors to the contacts and push them through the assembled angle housing 5 and support ring 1;

c.Insert the contacts into contact carrier 3;

d.Snap-fit earth spring 2 onto the contact carrier 3

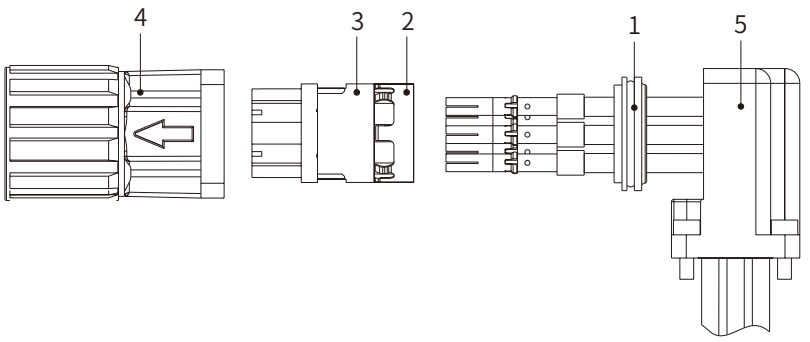
e.Guaid the contact carrier 3 into the insert sleeve 4;

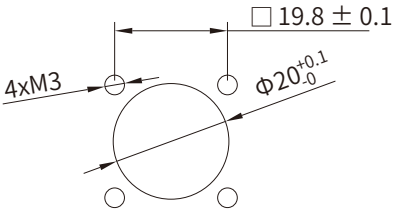
f.Insert the support ring 1 in the sleeve 4;

g.Fasten the assembled connectors to the angel housing 5 using screws(M3*0.5).

# M23 Power Assembly Instruction

## ■ Angled Connector, Female Thread, Crimp type




Installation dimensions

**Assembly instructions:**

a.Strip the wires insulation:9.0mm;

b.Crimp the conductors to the contacts and push them through the assembled angle housing 5 and support ring 1;

c.Insert the contacts into contact carrier 3;

d.Snap-fit earth spring 2 onto the contact carrier 3

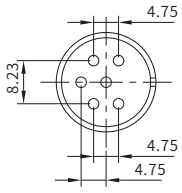
e.Guaid the contact carrier 3 into the insert sleeve 4;

f.Insert the support ring 1 in the sleeve 4;

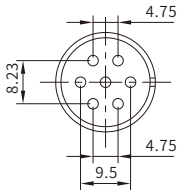
g.Fasten the assembled connectors to the angel housing 5 using screws(M3*0.5).

# M23 PCB Layout & Panel Cut-out

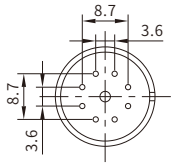
## PCB Layout



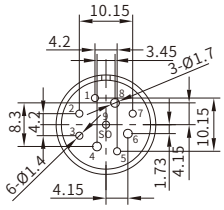

6P



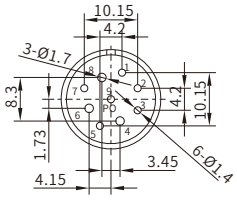

7P



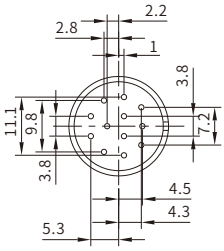

8+1P



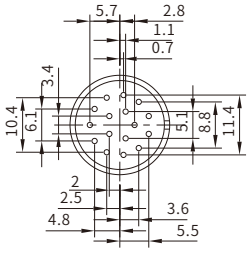

6+3P female



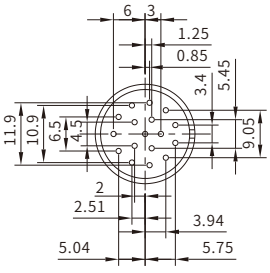

6+3P male



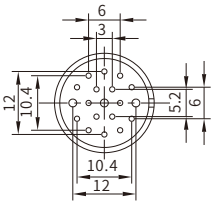

12P




16P

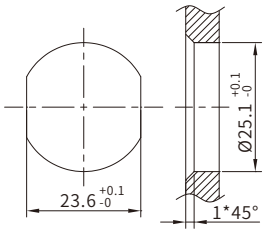



17P

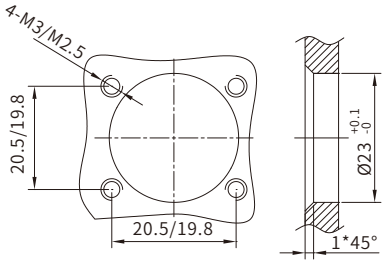



19P

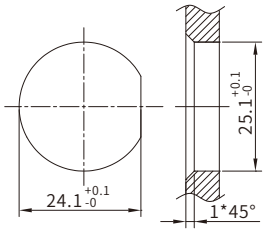
## Panel Cut-out Dimensions




H-cutting




Flange-cutting




D-cutting

# Industrial Circular
## connectors

## RD24 cables & connectors

We have extended our range of circular connectors provided with the addition of the RD24 series. This series is divided into over-molded cables, field wiring assembly, and panel mount type, offered with 3+PE or 6+PE poles. Screw joints and soldering termination is available for connecting systems. When in a locked condition, this series is sealed to an IP68 rating.

- Degree of protection IP68
- 1+PE, 2+PE, 3+PE,6+PE poles are available
- TPU over-molded
- Anti-vibration locking screw design
- Cable length customized, PUR and PVC cable options

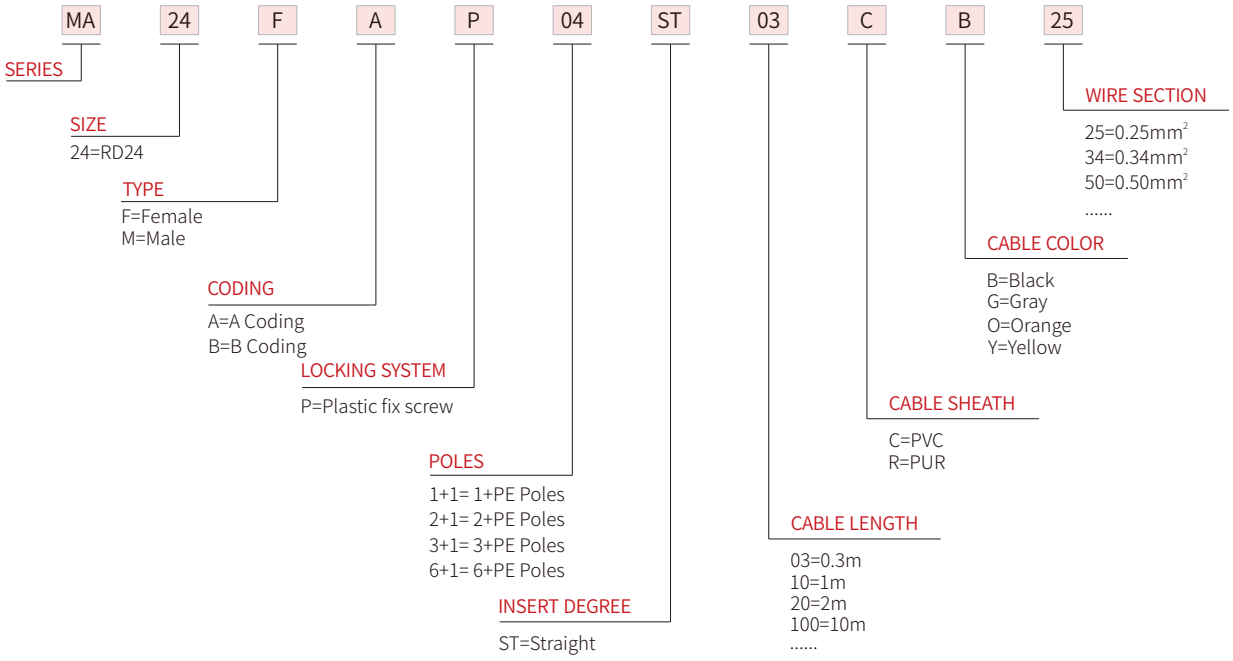
# RD24

## RD24 cables & connectors

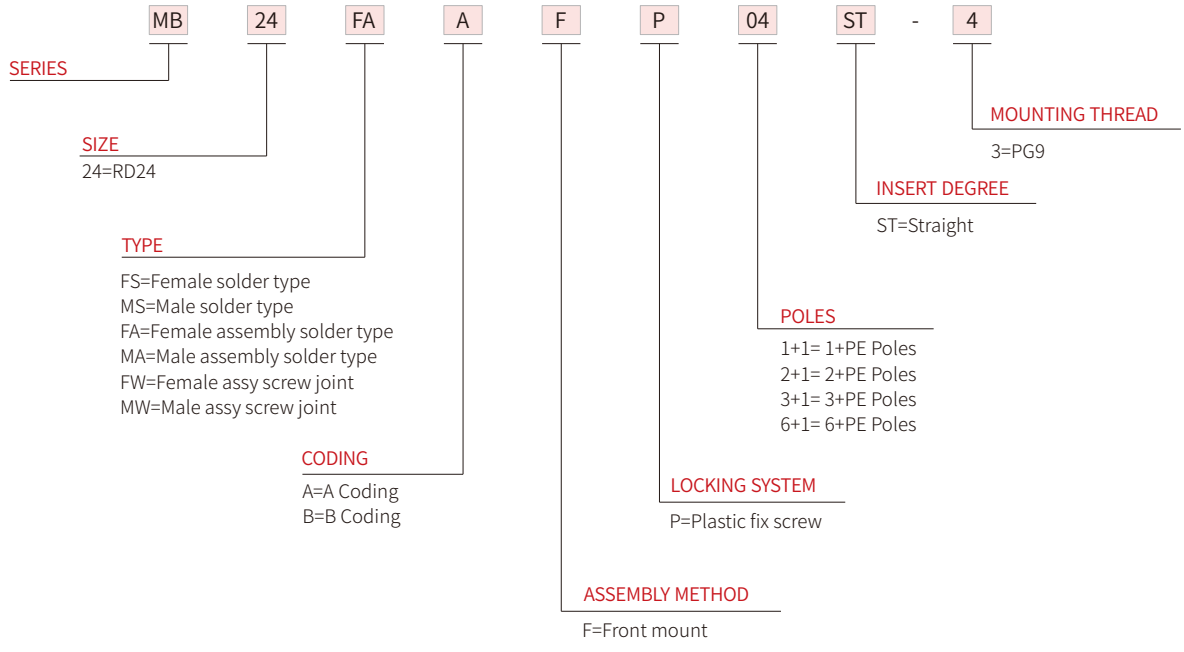
| RD24 Quick Search Table | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Locking type | Fix screw | | | | | | | | |
| | Available Coding | A-Coding | | | | | | B-Coding | | |
| | Rated Current | 12A | | | | | | 8A | | |
| | Voltage | 600V | | | | | | 250V | | |
| | Wire Gauge / size | 18~14AWG / 0.75mm², 1.0~2.0mm² | | | | | | 22~16AWG / 0.34~1.5mm² | | |
| | Pin layout | Male | Female | Male | Female | Male | Female | Male | Female | |
| **Molded Cable** | | 1+PE(1+1) | | 2+PE(2+1) | | 3+PE(3+1) | | 6+PE(6+1) | | |
| | Straight Connector Molded Cable | 522 | 522 | 522 | 522 | 522 | 522 | 526 | 526 | |
| **Assembly Type** | | 1+PE(1+1) | | 2+PE(2+1) | | 3+PE(3+1) | | 6+PE(6+1) | | |
| | Connector, Field Wirable Assembly, Solder | 523 | 523 | 523 | 523 | 523 | 523 | 527 | 527 | |
| **Panel Mount Type** | | 1+PE(1+1) | | 2+PE(2+1) | | 3+PE(3+1) | | 6+PE(6+1) | | |
| | Straight Connector, Panel Mount, Solder, Front fastened | 524 | - | 524 | - | 524 | - | 528 | 528 | |
| | Straight Connector, Field Wirable Assembly, Solder | 525 | 525 | 525 | 525 | 525 | 525 | - | - | |

## How to Order Part Number

### RD24 Series with cable molded



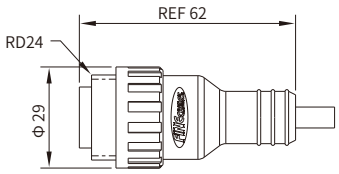

### RD24 Series Assembly / Panel-mount type



# RD24

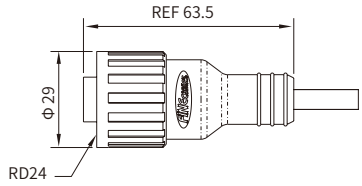
## RD24 A-coding Straight Connector, Molded Cable

Male




CE RoHS IP68

Female




CE RoHS IP68

## Specifications

| Contacts | 1+PE | 2+PE | 3+PE |
|---|---|---|---|
| Pin layout(Male) | | | |
| Pin layout(Female) | | | |

| | |
|---|---|
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) |
| Connector insert | PBT |
| Connector contacts | Brass with gold plated |
| Coupling nut/screw | PA |
| Seal/O-ring(of Female) | Epoxy resin / EPDM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Shielding | Unavailable |
| IP rating | IP67, IP68 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 12A |
| Rated voltage | 600V AC / DC |
| Wire gauge | 0.75mm²(AWG18~14) |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 1+PE | 1m | MA24MAP1+1ST-10CB75 | MA24MAP1+1ST-10RB75 | MA24FAP1+1ST-10CB75 | MA24FAP1+1ST-10RB75 |
| | 3m | MA24MAP1+1ST-30CB75 | MA24MAP1+1ST-30RB75 | MA24FAP1+1ST-30CB75 | MA24FAP1+1ST-30RB75 |
| | 5m | MA24MAP1+1ST-50CB75 | MA24MAP1+1ST-50RB75 | MA24FAP1+1ST-50CB75 | MA24FAP1+1ST-50RB75 |
| 2+PE | 1m | MA24MAP2+1ST-10CB75 | MA24MAP2+1ST-10RB75 | MA24FAP2+1ST-10CB75 | MA24FAP2+1ST-10RB75 |
| | 3m | MA24MAP2+1ST-30CB75 | MA24MAP2+1ST-30RB75 | MA24FAP2+1ST-30CB75 | MA24FAP2+1ST-30RB75 |
| | 5m | MA24MAP2+1ST-50CB75 | MA24MAP2+1ST-50RB75 | MA24FAP2+1ST-50CB75 | MA24FAP2+1ST-50RB75 |
| 3+PE | 1m | MA24MAP3+1ST-10CB75 | MA24MAP3+1ST-10RB75 | MA24FAP3+1ST-10CB75 | MA24FAP3+1ST-10RB75 |
| | 3m | MA24MAP3+1ST-30CB75 | MA24MAP3+1ST-30RB75 | MA24FAP3+1ST-30CB75 | MA24FAP3+1ST-30RB75 |
| | 5m | MA24MAP3+1ST-50CB75 | MA24MAP3+1ST-50RB75 | MA24FAP3+1ST-50CB75 | MA24FAP3+1ST-50RB75 |

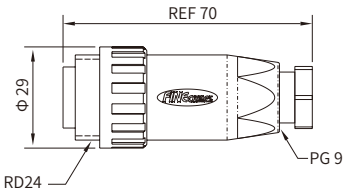
## Default wire colors

| Pin No. | | | |
|---|---|---|---|
| Pin 1 | BN | BN | BN |
| Pin 2 | BU | | BK |
| Pin 3 | | BU | GY |
| Pin 4 | | YE/GN | YE/GN |

# RD24

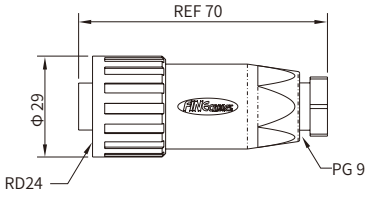
## RD24 A-coding Straight Connector, Field Wirable Assembly, Solder

Male




CE RoHS IP68

Female




CE RoHS IP68

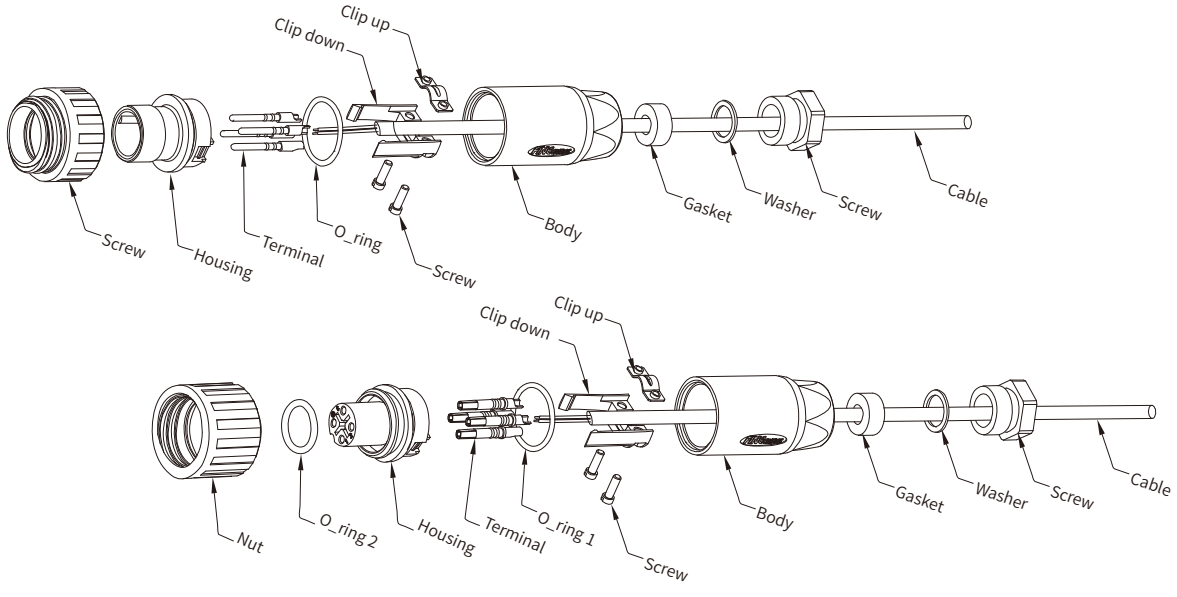
## Specifications

| Contacts | 1+PE | 2+PE | 3+PE |
|---|---|---|---|
| Certification | cULus ECBT8.E473386 | | |
| Pin layout(Male) | | | |
| Pin layout(Female) | | | |
| Ambient temperature | -25°C ~ +125°C | | |
| Connector insert | PBT | | |
| Connector contacts | Brass with gold plated | | |
| Coupling nut/screw | PA | | |
| Seal/O-ring | Epoxy resin / EPDM | | |
| Termination type | Solder | | |
| Insulation resistance | ⩾100MΩ | | |
| Contact resistance | ⩽5mΩ | | |
| Shielding | Unavailable | | |
| Suitable cable Dia | PG9: 6~8mm | | |
| IP rating | IP67, IP68 in locked condition | | |
| Mating endurance | >500 cycles | | |
| Rated current | 12A | | |
| Rated voltage | 600V AC / DC | | |
| Wire gauge | 0.75mm² (AWG18~14) | | |

## Part Number

| Pins | Male | Female |
|---|---|---|
| 1+PE | MB24MAAFP1+1ST-3 | MB24FAAFP1+1ST-3 |
| 2+PE | MB24MAAFP2+1ST-3 | MB24FAAFP2+1ST-3 |
| 3+PE | MB24MAAFP3+1ST-3 | MB24FAAFP3+1ST-3 |

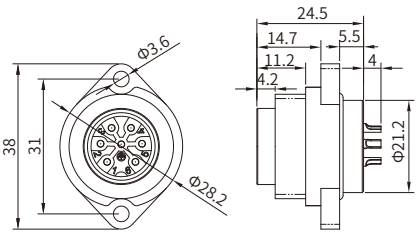
## Assembly Instruction



# RD24

## RD24 A-coding Straight Connector, Panel Mount, Solder, Front fastened

Male




CE RoHS IP68

## Specifications

| Contacts | 1+PE | 2+PE | 3+PE |
|---|---|---|---|
| Pin layout(Male) | | | |
| Ambient temperature | -15°C~+85°C (flexible installation), -30°C~+85°C (fixed installation) | | |
| Customized temperature | -25°C ~ +85°C (flexible installation), -40°C ~ +85°C (fixed installation) | | |
| Connector insert | PBT | | |
| Connector contacts | Brass with gold plated | | |
| Seal/O-ring | EPDM | | |
| Insulation resistance | ⩾100MΩ | | |
| Contact resistance | ⩽5mΩ | | |
| Shielding | Unavailable | | |
| IP rating | IP67, IP68 in locked condition | | |
| Mating endurance | >500 cycles | | |
| Rated current | 12A | | |
| Rated voltage | 600V AC / DC | | |
| Wire gauge | 0.75mm$^2$ (AWG18~14) | | |

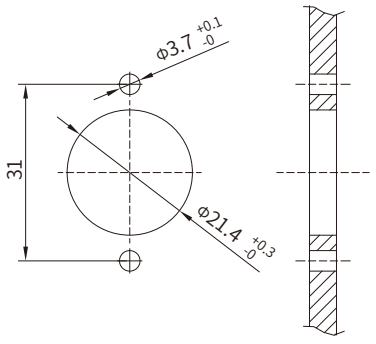
## Part Number

| Pins | Male |
|---|---|
| 1+PE | MB24MSAFP1+1ST |
| 2+PE | MB24MSAFP2+1ST |
| 3+PE | MB24MSAFP3+1ST |

## Default wire colors

| Pin No. | | | |
|---|---|---|---|
| Pin 1 | BN | BN | BN |
| Pin 2 | BU | | BK |
| Pin 3 | | BU | GY |
| Pin 4 | | YE/GN | YE/GN |

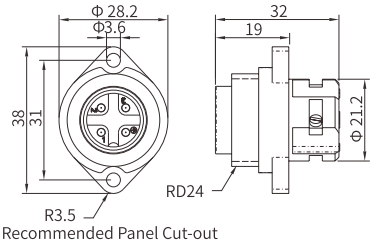
## Panel Cut-out Dimensions



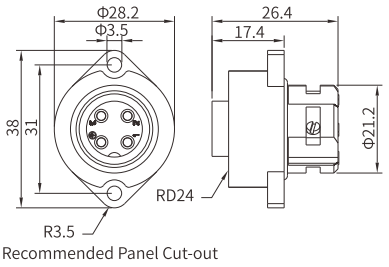
# RD24

## RD24 A-coding Straight Connector, Panel Mount, Screw Joint, Front Fastened

Male




Female



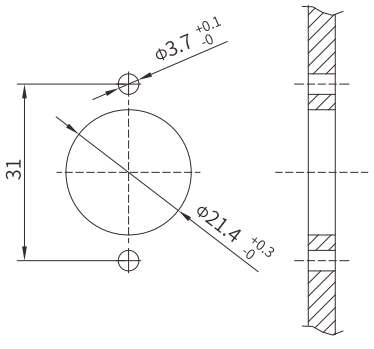

## Specifications

| Contacts | 1+PE | 2+PE | 3+PE |
|---|---|---|---|
| Certification | ECBT2(ECBT8).E473386 | | |
| Pin layout(Male) | | | |
| Pin layout(Female) | | | |
| Ambient temperature | -25°C ~ +125°C | | |
| Connector insert | PBT | | |
| Connector contacts | Brass with gold plated | | |
| Coupling nut/screw | PBT | | |
| Seal/O-ring | Epoxy resin / EPDM | | |
| Termination type | Screw | | |
| Insulation resistance | ⩾100MΩ | | |
| Contact resistance | ⩽5mΩ | | |
| Shielding | Unavailable | | |
| Suitable cable Dia | PG9: 6~8mm | | |
| IP rating | IP67, IP68 in locked condition | | |
| Mating endurance | >500 cycles | | |
| Rated current | 12A | | |
| Rated voltage | 600V AC / DC | | |
| Wire gauge | 0.75mm²(AWG18~14) | | |

## Part Number

| Pins | Male | Female |
|---|---|---|
| 1+PE | MB24MWAFP1+1ST | MB24FWAFP1+1ST |
| 2+PE | MB24MWAFP2+1ST | MB24FWAFP2+1ST |
| 3+PE | MB24MWAFP3+1ST | MB24FWAFP3+1ST |

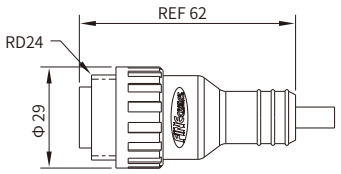
## Panel Cut-out Dimensions



# RD24

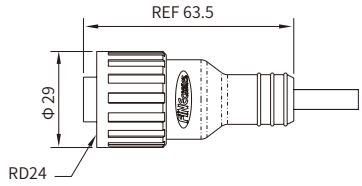
## RD24 B-coding Straight Connector, Molded Cable

Male




CE RoHS IP68

Female




CE RoHS IP68

## Specifications

| Contacts | 6+PE |
|---|---|
| Pin layout(Male) | |
| Pin layout(Female) | |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) |
| Connector insert | PBT |
| Connector contacts | Brass with gold plated |
| Coupling nut/screw | PA |
| Seal/O-ring(of Female) | Epoxy resin / EPDM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Shielding | Unavailable |
| IP rating | IP67, IP68 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 8A |
| Rated voltage | 250V AC / DC |
| Wire gauge | 0.34~1.5mm$^2$ (AWG22~16) |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 6+PE | 1m | MA24MBP6+1ST-10CB34 | MA24MBP6+1ST-10RB34 | MA24FBP6+1ST-10CB34 | MA24FBP6+1ST-10RB34 |
| | 3m | MA24MBP6+1ST-30CB34 | MA24MBP6+1ST-30RB34 | MA24FBP6+1ST-30CB34 | MA24FBP6+1ST-30RB34 |
| | 5m | MA24MBP6+1ST-50CB34 | MA24MBP6+1ST-50RB34 | MA24FBP6+1ST-50CB34 | MA24FBP6+1ST-50RB34 |

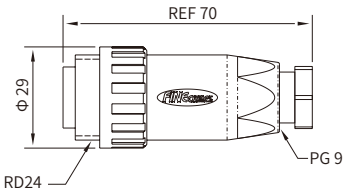
## Default wire colors

| Pin No. | |
|---|---|
| Pin 1 | WH |
| Pin 2 | BN |
| Pin 3 | GN |
| Pin 4 | YE |
| Pin 5 | GY |
| Pin 6 | PK |
| Pin 7 | YE/GN |

# RD24

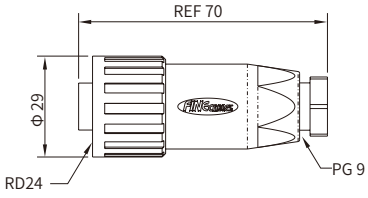
## Rd24 B-coding Straight Connector, Panel mount, Solder, Front fastened

Male




CE RoHS IP68

Female




CE RoHS IP68

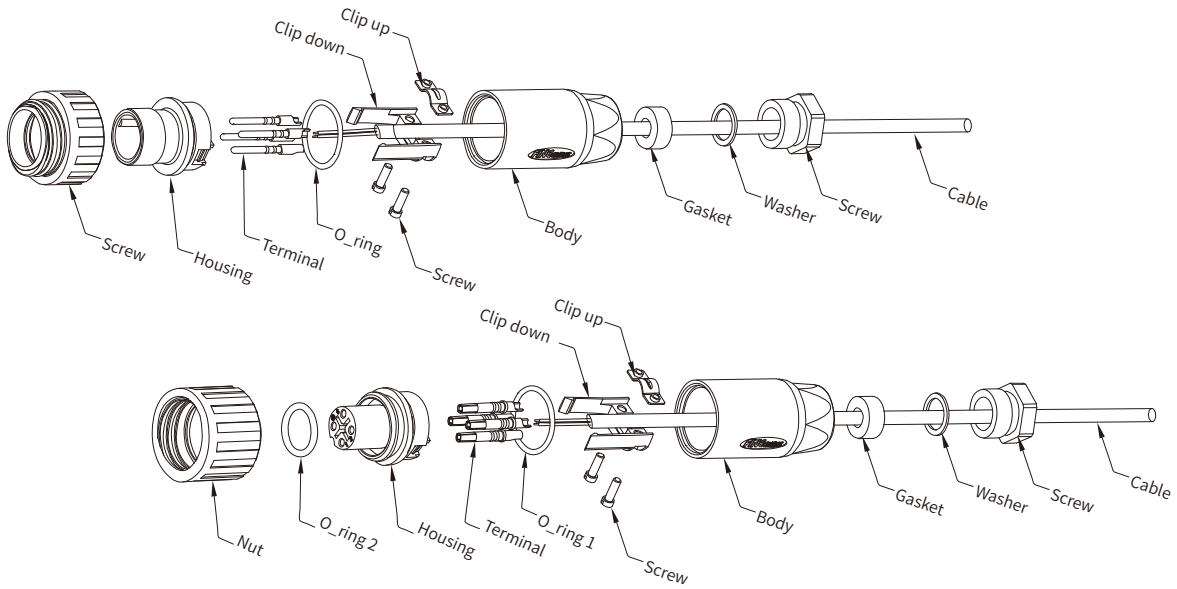
## Specifications

| Contacts | 6+PE |
|---|---|
| Certification | cULus ECBT2(ECBT8).E473386 |
| Pin layout(Male) | |
| Pin layout(Female) | |
| Ambient temperature | -25°C ~ +125°C |
| Connector insert | PBT |
| Connector contacts | Brass with gold plated |
| Coupling nut/screw | PA |
| Seal/O-ring | Epoxy resin / EPDM |
| Termination type | Solder |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Shielding | Unavailable |
| Suitable cable Dia | PG9: 6~8mm |
| IP rating | IP67, IP68 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 8A |
| Rated voltage | 250V AC / DC |
| Wire gauge | 0.34~1.5mm²(AWG22~16) |

## Part Number

| Pins | Male | Female |
|---|---|---|
| 6+PE | MB24MABFP6+1ST-3 | MB24FABFP6+1ST-3 |

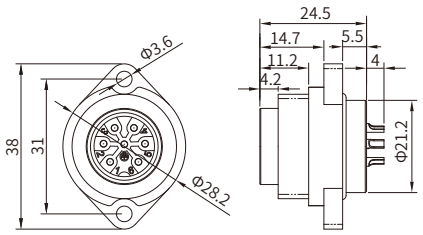
## Assembly Instruction



# RD24

## RD24 B-coding Straight Connector, Panel Mount, Solder, Front fastened

Male




CE RoHS IP68

## Specifications

| Contacts | 6+PE |
|---|---|
| Pin layout(Male) | |
| Ambient temperature | -15°C~+85°C (flexible installation), -30°C~+85°C (fixed installation) |
| Customized temperature | -25°C ~ +85°C (flexible installation), -40°C ~ +85°C (fixed installation) |
| Connector insert | PBT |
| Connector contacts | Brass with gold plated |
| Seal/O-ring | EPDM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽5mΩ |
| Shielding | Unavailable |
| IP rating | IP67, IP68 in locked condition |
| Mating endurance | >500 cycles |
| Rated current | 8A |
| Rated voltage | 250V AC / DC |
| Wire gauge | 0.34~1.5mm$^2$(AWG22~16) |

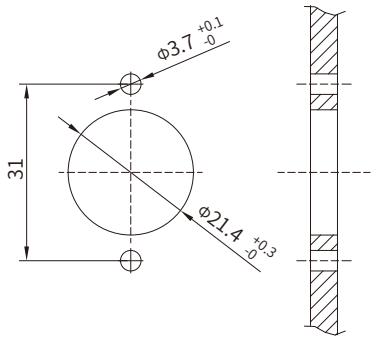
## Part Number

| Pins | Male |
|---|---|
| 6+PE | MB24MSBFP6+1ST |

## Default wire colors

| Pin No. | |
|---|---|
| Pin 1 | WH |
| Pin 2 | BN |
| Pin 3 | GN |
| Pin 4 | YE |
| Pin 5 | GY |
| Pin 6 | PK |
| Pin 7 | YE/GN |

## Panel Cut-out Dimensions



# Solenoid Valve Connectors

## Solenoid Valve Connectors

FINECABLES' valve connectors provide compact and robust connection solution for the secure transmission of voltages and current for pneumatic, hydraulic and electromagnetic actuators. The current range includes versions of A,B and C, with an integrated protective circuit to reduce voltage spikes or an LED function display.

- Design as per DIN EN 175301-803, formerly DIN 43650
- Degree of protection IP65/67
- Version A,B and C are available
- TPU over molded
- Cable length customized, PUR and PVC cable options
- LED indicator is available

# Solenoid Valve

## Solenoid Valve Plugs

**Solenoid Valve**
**Quick Search Table**

| Contacts | 3+PE | 2+2PE | 2+PE | 3P | 4P | 3+PE | 2+2PE |
|---|---|---|---|---|---|---|---|
| Rated Current | 8A / 10A | | | | | 16A | |
| Rated Voltage | 24V / 250V | | | | | 400V | |
| Rated Impulse Voltage | 800V / 4000V | | | | | 4000V | |
| Wire Gauge / size | Max. 1.5mm² | | | | | - | |
| Pin layout | | | | | | | |
| **Molded Cable** | Type A Female | | | | | Type A Male | |
| | | | | | | | |
| Molded Cable Type A | 532 | 532 | 532 | 532 | 532 | - | - |
| Molded Cable Type B | - | - | - | - | - | - | - |
| Molded Cable Type C | - | - | - | - | - | - | - |
| **Assembly Type** | Type A Female | | | | | Type A Male | |
| | | | | | | | |
| Field Wirable Assembly Type A PG9/PG11 | 535 | 535 | 535 | 535 | 535 | - | - |
| Field Wirable Assembly Type A with LED | 535 | 535 | 535 | 535 | 535 | - | - |
| Field Wirable Assembly Type B | - | - | - | - | - | - | - |
| Field Wirable Assembly Type C | - | - | - | - | - | - | - |
| Base Conn Type A Circular | - | - | - | - | - | 539 | 539 |
| Base Conn Type A Circular with Hexagonal Nut | - | - | - | - | - | 540 | 540 |
| Base Conn Type A Recatangular | - | - | - | - | - | 541 | 541 |
| Base Conn Type B Recatangular | - | - | - | - | - | - | - |
| Base Conn Type C Recatangular | - | - | - | - | - | - | - |

## How to Order Part Number

### Valve / Solenoid Connectors With Cable Molded

| VC | A | F | M | 00 | 22 | - | 05 | CB | 75 |
|---|---|---|---|---|---|---|---|---|---|

- 75 — 0.75mm²
- CB — PVC black
- 05 — 0.5m
- 22 — 22=2+2PE, 31=3+PE, 21=2+PE, 03=3P, 04=4P
- 00 — 00=blank circuit, 01=circuit1, 02=circuit2,...
- M — Molding
- F — Female
- A — A=A type, B=B type, C=C type
- VC — Valve connector

# Solenoid Valve

## Solenoid Valve Plugs

| 2+PE | 3P | 4P | 2+PE | | 3+PE | 2+2PE | 2+PE | 3P | 4P | 2+PE | 2+2PE | 3+PE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16A | | | 8A/10A | 16A | 6A | | | | | 6A | | |
| 400V | | | 24V/250V | 250V | 250V | | | | | - | | |
| 4000V | | | 800V/4000V | 4000V | 800V | | | | | 800V | | |
| - | | | Max.1.5mm² | - | Max. 0.5mm² | | | | | - | | |
| | | | Male | Female | | | | | | | | |
| Type A Male | | | Type B | | Type C Female | | | | | Type C Male | | |
| - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | 533 | - | - | - | - | - | - | - | - |
| - | - | - | - | - | 534 | 534 | 534 | 534 | 534 | - | - | - |
| Type A Male | | | Type B | | Type C Female | | | | | Type C Male | | |
| - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | 537 | - | - | - | - | - | - | - | - |
| - | - | - | - | - | 538 | - | - | - | - | - | - | - |
| 539 | 539 | 539 | - | - | - | - | - | - | - | - | - | - |
| 540 | 540 | 540 | - | - | - | - | - | - | - | - | - | - |
| 541 | 541 | 541 | - | - | - | - | - | - | - | - | - | - |
| - | - | - | 542 | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | 543 | 543 | 543 |

## How to Order Part Number

### Valve / Solenoid Connectors With Assembly

Female

VC A F A 00 31 - 1

- 1:PG9, 2:PG11
- 31=3+PE, 22=2+2PE, 21=2+PE, 03=3P, 04=4P
- 00=blank circuit, 01=circuit1, 02=circuit2,...
- Assembly
- Female
- A=A type, B=B type, C=C type
- Valve connector

Male

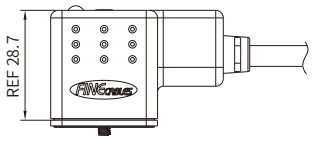
VC A M A 01 31 - 0

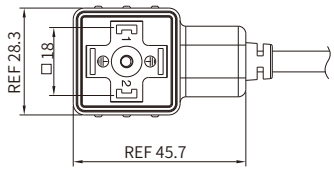
- 0:without screw thread, 1:M27x1.5
- 31=3+PE, 22=2+2PE, 21=2+PE, 03=3P, 04=4P
- 21(11mm)=2+PE(11mm), 21(10mm)=2+PE(10mm)
- 01=Round without screw cap, 02=Square, 03=Round with screw cap
- Assembly
- Male
- A=A type, B=B type, C=C type
- Valve connector

# Solenoid Valve

## Valve Plug, Molded Cable, Type A

Female




CE RoHS

## Specifications

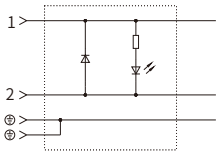
| Contacts | 3+PE | 2+2PE | 2+PE | 3P | 4P |
|---|---|---|---|---|---|
| Pin layout(Female) | | | | | |
| Standard | DIN EN 175 301-803-A | | | | |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | | | | |
| Termination | Soldering | | | | |
| Pin dimensions | 6.3x0.8mm, 4.8x0.8mm | | | | |
| Connector overmold | TPU | | | | |
| Contact bearer material | PA+GF | | | | |
| Housing material | PC | | | | |
| Contact | PS with silver plated | | | | |
| Screw | Steel with Zn plated | | | | |
| Seal | FKM | | | | |
| Gasket | TPU/NBR | | | | |
| Rated voltage | 24V/250V | | | | |
| Rated impulse voltage | 800V/4000V | | | | |
| Rated current | 8A/10A | | | | |
| Insulation resistance | ⩾100MΩ | | | | |
| Contact resistance | ⩽4mΩ | | | | |
| IP rating | IP67 in locked condition | | | | |
| Cable type | PVC or PUR cable | | | | |
| Conductor size | 1.5mm$^2$ Max | | | | |

## Part Number

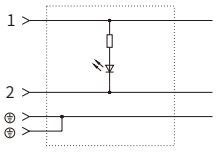
xx：00=blank circuit, 01=circuit 1, 02=circuit 2, 03=circuit 3, 04=circuit 4

| Pins | Cable length | Female | | | |
|---|---|---|---|---|---|
| | | PVC | | PUR | |
| 3+PE | 1m | VCAFMxx31-10CB150 | VCAFMxx31-10CB150-LED | VCAFMxx31-10RB150 | VCAFMxx31-10RB150-LED |
| | 3m | VCAFMxx31-30CB150 | VCAFMxx31-30CB150-LED | VCAFMxx31-30RB150 | VCAFMxx31-30RB150-LED |
| | 5m | VCAFMxx31-50CB150 | VCAFMxx31-50CB150-LED | VCAFMxx31-50RB150 | VCAFMxx31-50RB150-LED |
| 2+2PE | 1m | VCAFMxx22-10CB150 | VCAFMxx22-10CB150-LED | VCAFMxx22-10RB150 | VCAFMxx22-10RB150-LED |
| | 3m | VCAFMxx22-30CB150 | VCAFMxx22-30CB150-LED | VCAFMxx22-30RB150 | VCAFMxx22-30RB150-LED |
| | 5m | VCAFMxx22-50CB150 | VCAFMxx22-50CB150-LED | VCAFMxx22-50RB150 | VCAFMxx22-50RB150-LED |
| 2+PE | 1m | VCAFMxx21-10CB150 | VCAFMxx21-10CB150-LED | VCAFMxx21-10RB150 | VCAFMxx21-10RB150-LED |
| | 3m | VCAFMxx21-30CB150 | VCAFMxx21-30CB150-LED | VCAFMxx21-30RB150 | VCAFMxx21-30RB150-LED |
| | 5m | VCAFMxx21-50CB150 | VCAFMxx21-50CB150-LED | VCAFMxx21-50RB150 | VCAFMxx21-50RB150-LED |
| 3P | 1m | VCAFMxx03-10CB150 | VCAFMxx03-10CB150-LED | VCAFMxx03-10RB150 | VCAFMxx03-10RB150-LED |
| | 3m | VCAFMxx03-30CB150 | VCAFMxx03-30CB150-LED | VCAFMxx03-30RB150 | VCAFMxx03-30RB150-LED |
| | 5m | VCAFMxx03-50CB150 | VCAFMxx03-50CB150-LED | VCAFMxx03-50RB150 | VCAFMxx03-50RB150-LED |
| 4P | 1m | VCAFMxx04-10CB150 | VCAFMxx04-10CB150-LED | VCAFMxx04-10RB150 | VCAFMxx04-10RB150-LED |
| | 3m | VCAFMxx04-30CB150 | VCAFMxx04-30CB150-LED | VCAFMxx04-30RB150 | VCAFMxx04-30RB150-LED |
| | 5m | VCAFMxx04-50CB150 | VCAFMxx04-50CB150-LED | VCAFMxx04-50RB150 | VCAFMxx04-50RB150-LED |

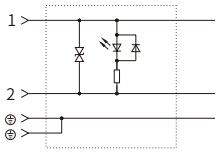
## Normal circuit diagram



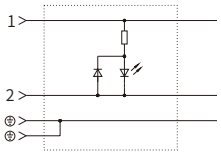

01




02




03

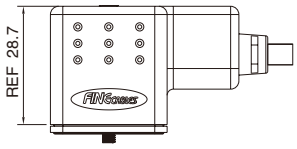


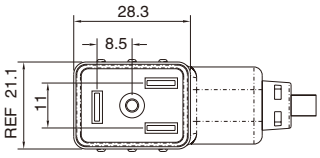

04

# Solenoid Valve

## Valve Plug, Molded Cable, Type B

Female




CE RoHS IP67

## Specifications

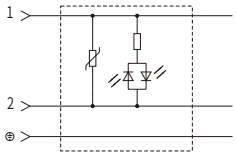
| Contacts | 2+PE |
|---|---|
| Pin layout(Female) | |
| Standard | Industrial standard |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) |
| Termination | Soldering |
| Pin dimensions | 6.3x0.8mm, 4.8x0.8mm |
| Connector overmold | TPU |
| Contact bearer material | PA+GF |
| Housing material | PC |
| Contact | PS with silver plated |
| Screw | Steel with Zn plated |
| Seal | FKM |
| Gasket | TPU/NBR |
| Rated voltage | 24V/250V |
| Rated impulse voltage | 800V/4000V |
| Rated current | 8A/10A |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽4mΩ |
| IP rating | IP67 in locked condition |
| Cable type | PVC or PUR cable |
| Conductor size | 1.5mm$^2$ Max |

## Part Number

xx：00=blank circuit, 01=circuit 1

| Pins | Cable length | Female | | | |
|---|---|---|---|---|---|
| | | PVC | | PUR | |
| 2+PE | 1m | VCBFMxx21-10CB150 | VCBFMxx21-10CB150-LED | VCBFMxx21-10RB150 | VCBFMxx21-10RB150-LED |
| | 3m | VCBFMxx21-30CB150 | VCBFMxx21-30CB150-LED | VCBFMxx21-30RB150 | VCBFMxx21-30RB150-LED |
| | 5m | VCBFMxx21-50CB150 | VCBFMxx21-50CB150-LED | VCBFMxx21-50RB150 | VCBFMxx21-50RB150-LED |

## Normal circuit diagram



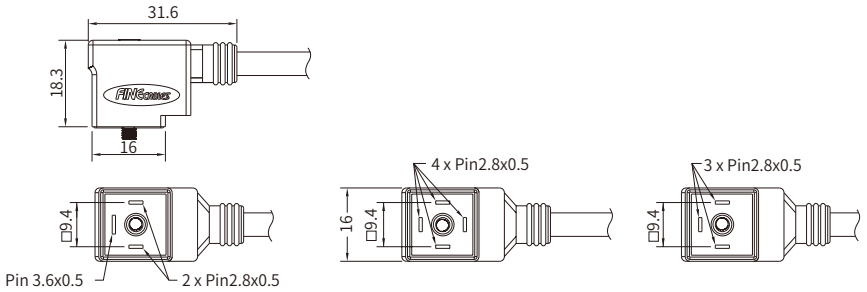

01

# Solenoid Valve

## Valve Plug, Molded Cable, Type C

Female

CE RoHS




## Specifications

| Contacts | 3+PE | 2+2PE | 2+PE | 3P | 4P |
|---|---|---|---|---|---|
| Pin layout(Female) | | | | | |
| Standard | Industrial standard | | | | |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | | | | |
| Termination | Soldering | | | | |
| Pin dimensions | 2.8x0.5mm, 3.6x0.5mm | | | | |
| Connector overmold | TPU | | | | |
| Contact bearer material | PA+GF | | | | |
| Housing material | PC | | | | |
| Contact | PS with silver plated | | | | |
| Screw | Steel with Zn plated | | | | |
| Seal | FKM | | | | |
| Gasket | TPU/NBR | | | | |
| Rated voltage | 250V | | | | |
| Rated impulse voltage | 800V | | | | |
| Rated current | 6A | | | | |
| Insulation resistance | ⩾100MΩ | | | | |
| Contact resistance | ⩽4mΩ | | | | |
| IP rating | IP67 in locked condition | | | | |
| Cable type | PVC or PUR cable | | | | |
| Conductor size | 0.5mm$^2$ Max | | | | |

## Part Number

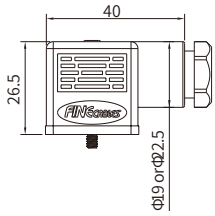
xx：00=blank circuit, 01=circuit 1, 02=circuit 2, 03=circuit 3, 04=circuit 4

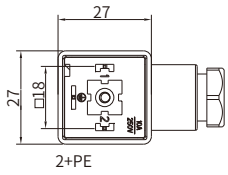
| Pins | Cable length | Female | |
|---|---|---|---|
| | | PVC | PUR |
| 3+PE | 1m | VCCFMxx31-10CB50 | VCCFMxx31-10RB50 |
| | 3m | VCCFMxx31-30CB50 | VCCFMxx31-30RB50 |
| | 5m | VCCFMxx31-50CB50 | VCCFMxx31-50RB50 |
| 2+2PE | 1m | VCCFMxx22-10CB50 | VCCFMxx22-10RB50 |
| | 3m | VCCFMxx22-30CB50 | VCCFMxx22-30RB50 |
| | 5m | VCCFMxx22-50CB50 | VCCFMxx22-50RB50 |
| 2+PE | 1m | VCCFMxx21-10CB50 | VCCFMxx21-10RB50 |
| | 3m | VCCFMxx21-30CB50 | VCCFMxx21-30RB50 |
| | 5m | VCCFMxx21-50CB50 | VCCFMxx21-50RB50 |
| 3P | 1m | VCCFMxx03-10CB50 | VCCFMxx03-10RB50 |
| | 3m | VCCFMxx03-30CB50 | VCCFMxx03-30RB50 |
| | 5m | VCCFMxx03-50CB50 | VCCFMxx03-50RB50 |
| 4P | 1m | VCCFMxx04-10CB50 | VCCFMxx04-10RB50 |
| | 3m | VCCFMxx04-30CB50 | VCCFMxx04-30RB50 |
| | 5m | VCCFMxx04-50CB50 | VCCFMxx04-50RB50 |

# Solenoid Valve

## Valve Plug, Field Wirable Assembly, Type A , PG9 / PG11

Female




CE RoHS IP67

## Specifications

| Contacts | 3+PE | 2+2PE | 2+PE | 3P | 4P |
|---|---|---|---|---|---|
| Certification | c UL us ECBT2.E364453 | | | | |
| Pin layout(Female) | | | | | |
| Standard | DIN EN 175 301-803-A | | | | |
| Ambient temperature | -30°C ~ +125°C | | | | |
| Termination | Screw | | | | |
| Pin dimensions | 6.3x0.8mm, 4.8x0.8mm | | | | |
| Housing color | Black | | | | |
| Contact bearer material | PA+GF | | | | |
| Housing material | PA | | | | |
| Contact | PS with silver plated | | | | |
| Screw | Steel with Zn plated | | | | |
| Sea | FKM/NBR | | | | |
| Gasket | NBR | | | | |
| Rated voltage | 250V | | | | |
| Rated impulse voltage | 4000V | | | | |
| Rated current | 10A | | | | |
| Insulation resistance | ⩾100MΩ | | | | |
| Contact resistance | ⩽4mΩ | | | | |
| IP rating | IP 65 in locked condition | | | | |
| Cable gland | PG9 / PG11 | | | | |
| Suitable cables(Dia.) | 4.5~6.0mm/6.0~9.0mm | | | | |
| Conductor size | 1.5mm$^2$ Max | | | | |

## Part Number

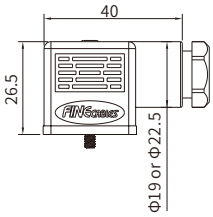
xx:00=blank circuit

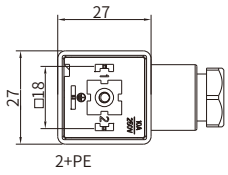
| Pins | Female | |
|---|---|---|
| | PG9 | PG11 |
| 3+PE | VCAFAxx31-1 | VCAFAxx31-2 |
| 2+2PE | VCAFAxx22-1 | VCAFAxx22-2 |
| 2+PE | VCAFAxx21-1 | VCAFAxx21-2 |
| 3P | VCAFAxx03-1 | VCAFAxx03-2 |
| 4P | VCAFAxx04-1 | VCAFAxx04-2 |

# Solenoid Valve

## Valve Plug, Field Wirable Assembly, Type A with LED

Female




CE RoHS IP67

## Specifications

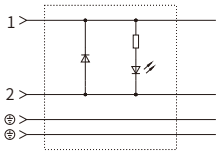
| Contacts | 3+PE | 2+2PE | 2+PE | 3P | 4P |
|---|---|---|---|---|---|
| Pin layout(Female) | | | | | |
| Standard | DIN EN 175 301-803-A | | | | |
| Ambient temperature | -25°C ~ +90°C | | | | |
| Termination | Screw | | | | |
| Pin dimensions | 6.3x0.8mm, 4.8x0.8mm | | | | |
| Housing color | Transparent | | | | |
| Contact bearer material | PA+GF | | | | |
| Housing material | PC | | | | |
| Contact | PS with silver plated | | | | |
| Screw | Steel with Zn plated | | | | |
| Sea | FKM/NBR | | | | |
| Gasket | NBR | | | | |
| Rated voltage | 24V | | | | |
| Rated impulse voltage | 800V | | | | |
| Rated current | 8A | | | | |
| Insulation resistance | ⩾100MΩ | | | | |
| Contact resistance | ⩽4mΩ | | | | |
| IP rating | IP 65 in locked condition | | | | |
| Cable gland | PG9 / PG11 | | | | |
| Suitable cables(Dia.) | 4.5~6.0mm/6.0~9.0mm | | | | |
| Conductor size | 1.5mm$^2$ Max | | | | |

## Part Number

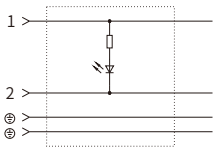
xx：00=blank circuit, 01=circuit 1, 02=circuit 2, 03=circuit 3, 04=circuit 4

| Pins | Female | |
|---|---|---|
| | PG9 | PG11 |
| 3+PE | VCAFAxx31-1-LED | VCAFAxx31-2-LED |
| 2+2PE | VCAFAxx22-1-LED | VCAFAxx22-2-LED |
| 2+PE | VCAFAxx21-1-LED | VCAFAxx21-2-LED |
| 3P | VCAFAxx03-1-LED | VCAFAxx03-2-LED |
| 4P | VCAFAxx04-1-LED | VCAFAxx04-2-LED |

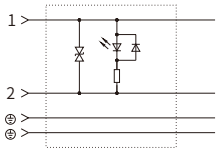
## Normal circuit diagram



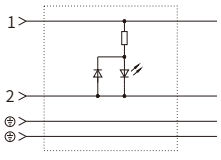

01




02




03

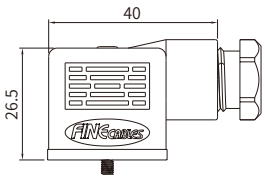


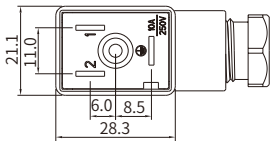

04

# Solenoid Valve

## Valve Plug, Field Wirable Assembly, Type B

Female




CE RoHS

## Specifications

| Contacts | 2+PE |
|---|---|
| Certification | ECBT8.E364453 |
| Pin layout(Female) | |
| Standard | Industrial standard |
| Ambient temperature | -30°C ~ +125°C |
| Termination | Screw |
| Pin dimensions | 6.3x0.8mm, 4.8x0.8mm |
| Connector overmold | Black |
| Contact bearer material | PA+GF |
| Housing material | PA+GF |
| Contact | PS with silver plated |
| Screw | Steel with Zn plated |
| Seal | FKM/NBR |
| Gasket | NBR |
| Rated voltage | 250V |
| Rated impulse voltage | 4000V |
| Rated current | 10A |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽4mΩ |
| IP rating | IP65 in locked condition |
| Cable gland | PG9 |
| Suitable cables(Dia.) | 4.5~7.0mm |
| Conductor size | 1.5mm² Max |

## Part Number

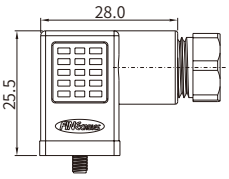
00=blank circuit

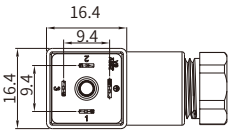
| Pins | Female |
|---|---|
| 2+PE | VCBFA0021 |

# Solenoid Valve

## Valve Plug, Field Wirable Assembly, Type C

Female




CE RoHS

## Specifications

| Contacts | 3+PE |
|---|---|
| Pin layout(Female) | |
| Standard | Industrial standard |
| Ambient temperature | -30°C ~ +125°C |
| Termination | Screw |
| Pin dimensions | 4.6x0.5mm, 3.8x0.5mm |
| Connector overmold | Black |
| Contact bearer material | PA+GF |
| Housing material | PA+GF |
| Contact | PS with silver plated |
| Screw | Steel with Zn plated |
| Seal | FKM/NBR |
| Gasket | NBR |
| Rated voltage | 250V |
| Rated impulse voltage | 800V |
| Rated current | 6A |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽4mΩ |
| IP rating | IP65 in locked condition |
| Cable gland | PG7 |
| Suitable cables(Dia.) | 4.0~6.0mm |
| Conductor size | 0.5mm$^2$ Max |

## Part Number

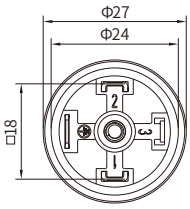
00=blank circuit

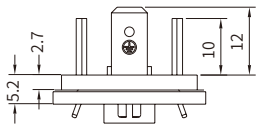
| Pins | Female |
|---|---|
| 3+PE | VCCFA0031 |

# Solenoid Valve

## Valve Plug, Base Conn., Type A, Circular

Male




CE RoHS IP67

## Specifications

| Contacts | 3+PE | 2+2PE | 2+PE | 3P | 4P |
|---|---|---|---|---|---|
| Certification | c UL us ECBT2.E364453 | | | | |
| Pin layout(Male) | | | | | |
| Standard | DIN EN 175 301-803-A | | | | |
| Ambient temperature | -30°C ~ +125°C | | | | |
| Termination | Soldering | | | | |
| Pin dimensions | 6.3x0.8mm, 4.8x0.8mm | | | | |
| Housing color | Black | | | | |
| Housing material | PA | | | | |
| Contact | Brass with tin plated or nickel plated | | | | |
| Central nut | Brass with nickel plated | | | | |
| Gasket | NBR | | | | |
| Rated voltage | 400V | | | | |
| Rated impulse voltage | 4000V | | | | |
| Rated current | 16A | | | | |
| Insulation resistance | ⩾100MΩ | | | | |
| Contact resistance | ⩽4mΩ | | | | |
| IP rating | IP 65 in locked condition | | | | |

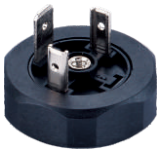
## Part Number

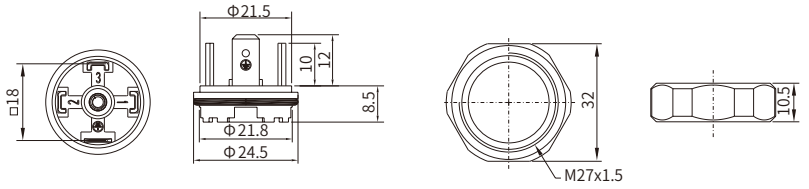
| Pins | Male |
|---|---|
| 3+PE | VCAMA0131-0 |
| 2+2PE | VCAMA0122-0 |
| 2+PE | VCAMA0121-0 |
| 3P | VCAMA0103-0 |
| 4P | VCAMA0104-0 |

# Solenoid Valve

## Valve Plug, Base Conn., Type A, Circular, with Hexagonal Nut

Male






CE RoHS

## Specifications

| Contacts | 3+PE | 2+2PE | 2+PE | 3P | 4P |
|---|---|---|---|---|---|
| Certification | c UL us ECBT2.E364453 | | | | |
| Pin layout(Male) | | | | | |
| Standard | DIN EN 175 301-803-A | | | | |
| Ambient temperature | -30°C ~ +125°C | | | | |
| Termination | Soldering | | | | |
| Pin dimensions | 6.3x0.8mm, 4.8x0.8mm | | | | |
| Housing color | Black | | | | |
| Housing material | PA+GF | | | | |
| Contact | Brass with tin plated or nickel plated | | | | |
| Central nut | Brass with nickel plated | | | | |
| Rated voltage | 400V | | | | |
| Rated impulse voltage | 4000V | | | | |
| Rated current | 16A | | | | |
| Insulation resistance | ≥100MΩ | | | | |
| Contact resistance | ≤4mΩ | | | | |
| IP rating | IP 65 in locked condition | | | | |

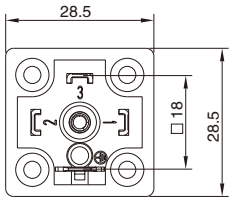
## Part Number

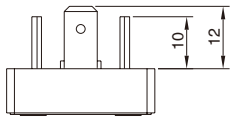
| Pins | Male |
|---|---|
| 3+PE | VCAMA0331-1 |
| 2+2PE | VCAMA0322-1 |
| 2+PE | VCAMA0321-1 |
| 3P | VCAMA0303-1 |
| 4P | VCAMA0304-1 |

# Solenoid Valve

## Valve Plug, Base Conn., Type A, Rectangular

Male




CE RoHS IP67

## Specifications

| Contacts | 3+PE | 2+2PE | 2+PE | 3P | 4P |
|---|---|---|---|---|---|
| Certification | c UL us ECBT2.E364453 | | | | |
| Pin layout(Male) | | | | | |
| Standard | DIN EN 175 301-803-A | | | | |
| Ambient temperature | -30°C ~ +125°C | | | | |
| Termination | Soldering | | | | |
| Pin dimensions | 6.3x0.8mm, 4.8x0.8mm | | | | |
| Housing color | Black | | | | |
| Housing material | PA+GF | | | | |
| Contact | Brass with tin plated or nickel plated | | | | |
| Central nut | Brass with nickel plated | | | | |
| Rated voltage | 400V | | | | |
| Rated impulse voltage | 4000V | | | | |
| Rated current | 16A | | | | |
| Insulation resistance | ⩾100MΩ | | | | |
| Contact resistance | ⩽4mΩ | | | | |
| IP rating | IP 65 in locked condition | | | | |

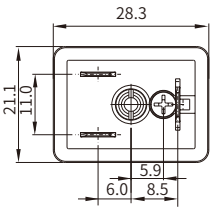
## Part Number

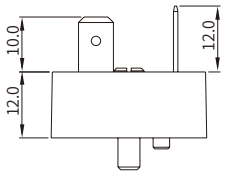
| Pins | Male |
|---|---|
| 3+PE | VCAMA0231-0 |
| 2+2PE | VCAMA0222-0 |
| 2+PE | VCAMA0221-0 |
| 3P | VCAMA0203-0 |
| 4P | VCAMA0204-0 |

# Solenoid Valve

## Valve Plug, Base Conn., Type B, Rectangular

Male




CE RoHS

## Specifications

| Contacts | 2+PE |
|---|---|
| Certification | ECBT8.E364453 |
| Pin layout(Male) | |
| Standard | Industrial standard |
| Ambient temperature | -30°C ~ +125°C |
| Termination | Soldering |
| Pin dimensions | 6.3x0.8mm |
| Housing color | Black |
| Housing material | PA+GF |
| Contact | Brass with tin plated or nickel plated |
| Central nut | Brass with nickel plated |
| Rated voltage | 250V AC/DC |
| Rated impulse voltage | 4000V |
| Rated current | 16A |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽4mΩ |
| IP rating | IP 65 in locked condition |

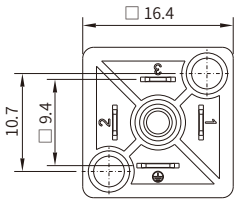
## Part Number

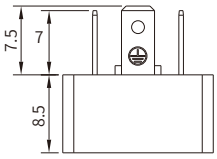
| Pins | Male |
|---|---|
| 2+PE | VCBMA0221-0 |

# Solenoid Valve

## Valve Plug, Base Conn., Type C, Rectangular

Male




CE RoHS IP67

## Specifications

| Contacts | 2+PE | 2+2PE | 3+PE |
|---|---|---|---|
| Pin layout(Male) | | | |
| Standard | Industrial standard | | |
| Ambient temperature | -30°C ~ +125°C | | |
| Termination | Soldering | | |
| Pin dimensions | 4.6x0.5mm, 3.8x0.5mm | | |
| Housing color | Black | | |
| Housing material | PA+GF | | |
| Contact | Brass with tin plated or nickel plated | | |
| Central nut | Brass with nickel plated | | |
| Rated voltage | 250V AC/DC | | |
| Rated impulse voltage | 800V | | |
| Rated current | 6A | | |
| Insulation resistance | ⩾100MΩ | | |
| Contact resistance | ⩽4mΩ | | |
| IP rating | IP 65 in locked condition | | |

## Part Number

| Pins | Male |
|---|---|
| 2+PE | VCCMAxx21-0 |
| 2+2PE | VCCMAxx22-0 |
| 3+PE | VCCMAxx31-0 |

# Industrial I/O
## connectors

## Industrial I/O connectors

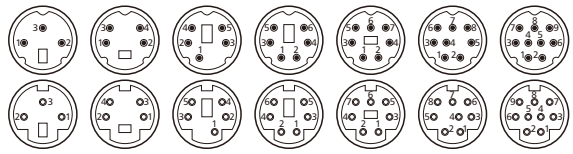
Industrial Ethernet now links automation technology to standard networks and the Internet world. We are proud to lead the way in standard connectors linking the office world to the demanding industrial setting and offer special solutions for cabling and assembling. Our I/0 connectors are sealed to an IP67 rating, along with EMC protection. We offer various Ethernet products, including RJ45 connectors, USB 2.0 / USB 3.0, Mini-DIN, D-sub connectors, Optical Fiber and UHF connectors.

- Degree of protection IP 67
- TPU over molded or PA+GF housing
- Copper alloy contacts and shell
- Cable length customized, PUR and PVC cable options

# Industrial I/O

## Industrial I/O connectors

### Mini-Din

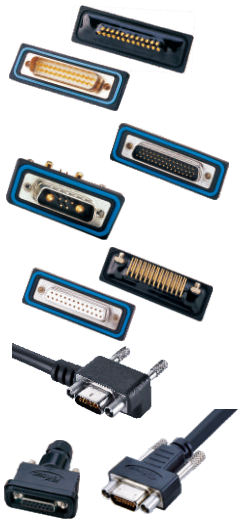
| | |
|---|---|
| Locking type | Fix screw |
| Rated Current | 1.0A / 1.5A |
| Voltage | 100Vac / 12Vdc |
| Wire Gauge / size | 24AWG / 0.25mm$^2$ |
| Pin layout |  |
| Mini-Din Male Molded Cable Straight | 549 |
| Mini-Din Female Molded Cable Straight | 549 |
| Mini-Din Female Panel Mount Solder Front Fastened | 550 |

### USB

| Connectors | Page | Rated Current | Voltage | Pin layout |
|---|---|---|---|---|
| USB2.0 Straight Connector, Male Molded Cable | 551 | 1.5A | 30V | Type A male |
| USB2.0 Straight Connector, Male Molded Cable, With Screw | 552 | | | |
| USB2.0 Straight Connector, Field Wirable Assembly | 553 | | | |
| USB2.0 Straight Connector, Female Molded Cable, With Screw | 552 | 1.5A | 30V | Type A female |
| USB2.0 Straight Connector, Female Panel Mount Solder, Front fastened | 554 | | | |
| USB2.0 Straight Connector, Female Panel Mount Solder, Rear fastened, Metal shell with Protection Cap | 555 | | | |
| USB2.0 Straight Connector, Female Panel Mount+SR Solder, Front fastened | 557 | | | |
| USB3.0 Straight Connector, Male Molded Cable | 551 | 1.8A | 30V | Type A male |
| USB3.0 Straight Connector, Field Wirable Assembly | 553 | | | |
| USB3.0 Straight Connector, Female Panel Mount Solder, Front fastened | 554 | 1.8A | 30V | Type A female |
| USB3.0 Straight Connector, Female Panel Mount, Solder Rear fastened, Metal shell with Protection Cap | 556 | | | |
| USB3.0 Straight Connector, Female Panel Mount+SR Solder, Front fastened | 557 | | | |
| Micro-USB Straight Connector, Molded Cable | 558 | 1A | 30V | Micro B female |
| Micro-USB Straight Connector, Panel Mount, Solder Front fastened | 560 | | | |
| Mini-USB Straight Connector, Molded Cable | 559 | 1A | 30V | Mini B female |
| Mini-USB Straight Connector, Panel Mount Solder, Front fastened | 561 | | | |
| Rj45 Straight Connector, Molded Cable | 562 | 1.5A | 125V | RJ45 8P8C male |
| RJ45 Straight Connector, Molded Cable, With Screw | 563 | | | |
| RJ45 Straight Connector, Field Wirable Assembly | 564 | | | |
| RJ45 Straight Connector, Molded Cable, With Screw | 563 | 1.5A | 125V | RJ45 8P8C female |
| RJ45 Straight Connector, Panel Mount, Front fastened | 565 | | | |
| RJ45 Angled Connector, Panel Mount, Front fastened | 566 | | | |
| M12-RJ45 Adapters, Straight, Weld type | 567 | 1.5A | 125V | |
| M12-RJ45 Adapters, Molded type | 568 | | | |
| M12-RJ45 Adapters, Straight, Weld type | 569 | | | |
| M12-RJ45 Adapters, Angled, Weld type, X-coding | 570 | | | |
| USB/RJ45 Protection cap for Female Panel-mount Connector | 571 | | | |
| Mini-USB/Micro-USB/Mini-Din Protection cap for Female Panel-mount Connector | 571 | | | |
| Waterproof UHF Connector | 572 | 1A | 250V | UHF |

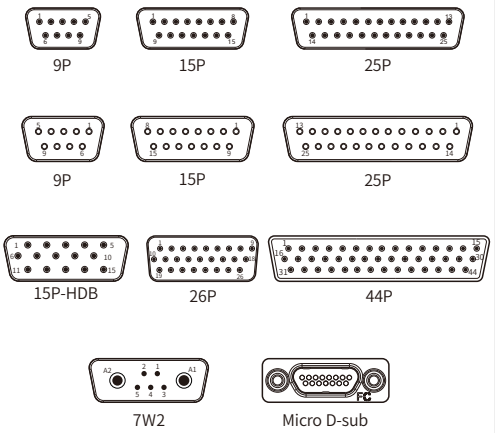
## Industrial I/O connectors

### D-Sub



| Connectors | Page |
|---|---|
| D-Sub Male Panel Mount, Solder | 573 |
| D-Sub Male Panel Mount, Solder | 574 |
| D-Sub Female Panel Mount, Solder | 575 |
| D-Sub Male Panel Mount, PCB Type | 576 |
| D-Sub Male Panel Mount, Angled Contacts PCB Type | 577 |
| D-Sub Female Panel Mount, PCB Type | 578 |
| D-Sub Female Panel Mount, Angled Contacts PCB Type | 579 |
| D-Sub Male Panel mount, Angled Contacts PCB type | 580 |
| D-Sub Field Wirable Assembly | 581 |
| Micro D-Sub Molded Cable | 582 |
| Micro D-Sub Molded Cable, Right angled | 583 |

Pin layout



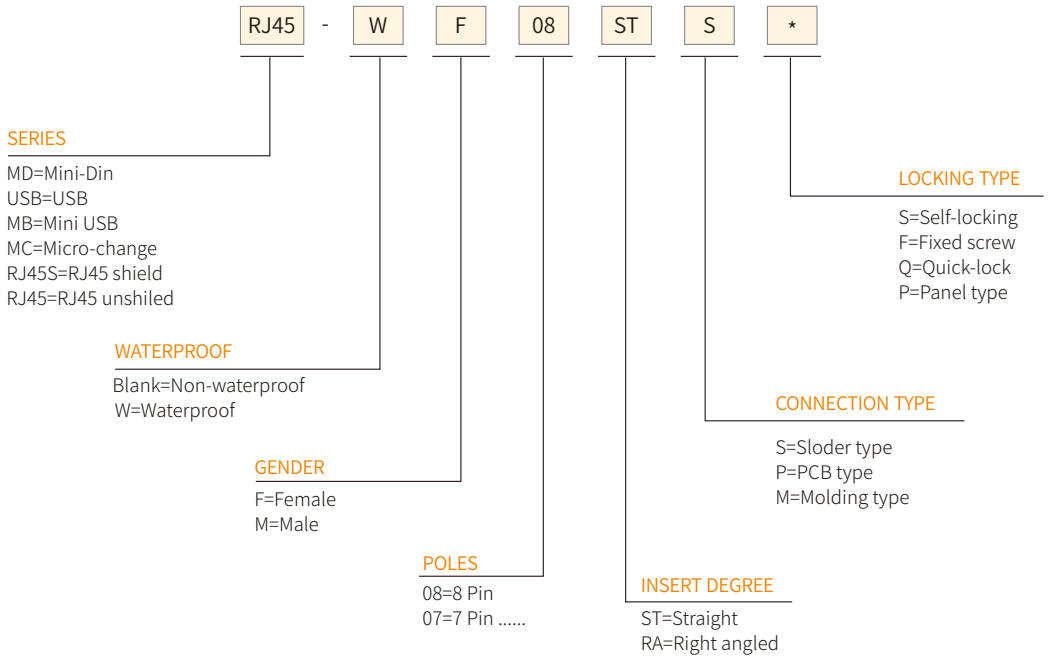

### Optical Fiber

| | |
|---|---|
| Optical Fiber Assembly SC Type | 584 |
| Optical Fiber Panel Type SC Adapter Connector | 585 |
| M8 Protection Cap for Female Molded Cable Connector | 585 |
| Optical Fiber Protection Cap for SC/LC Adaptor Connector | 586 |

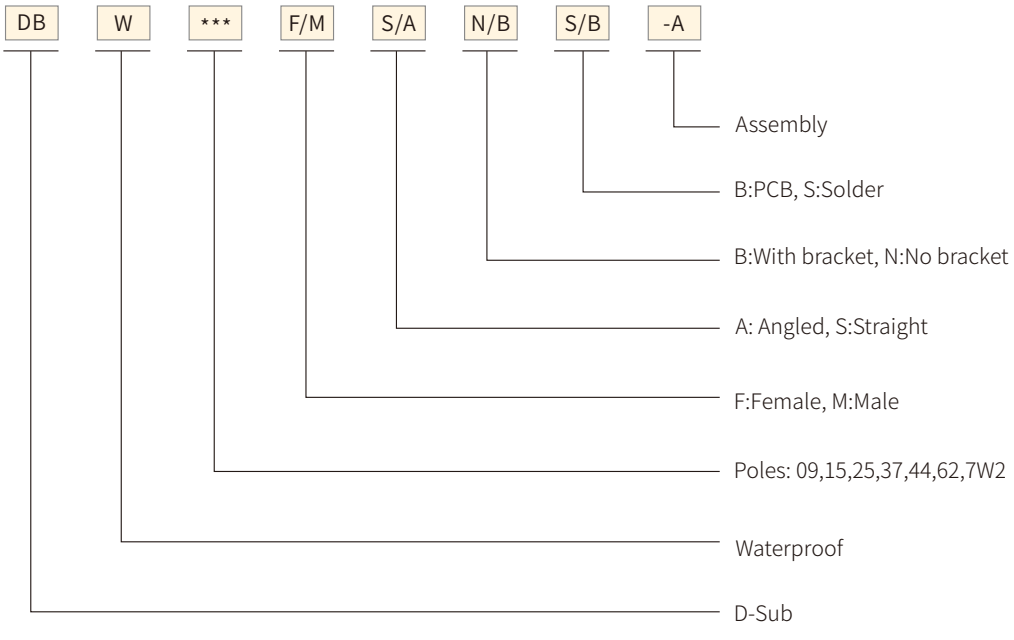
# Industrial I/O

## How to Order Part Number

### Industrial I/O Connectors Series



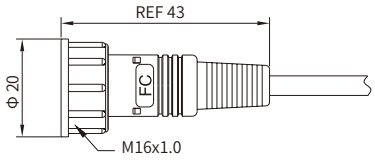

### Waterproof D-Sub connectors



# Industrial I/O

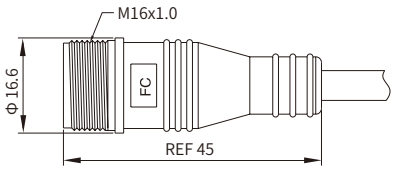
## Mini-Din Straight Connector, Molded Cable

Male




RoHS

Female




RoHS

## Specifications

| Contacts | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|
| Pin layout(Male) | | | | | | | |
| Pin layout(Female) | | | | | | | |

| | |
|---|---|
| Ambient temperature | -25°C~+85°C(flexible installation),-40°C~+85°C(fixed installation) |
| Connector insert | PBT |
| Connector contacts | Brass with silver plated |
| Connector overmold | TPU |
| Coupling nut/screw | PA + GF |
| Seal/O-ring(of Male) | FKM |
| Insulation resistance | ⩾20MΩ |
| Contact resistance | ⩽20mΩ |
| Shielding | Available |
| IP rating | IP67 in locked condition |
| Rated voltage | 100V(1.0A)AC / 12V(2A)DC |
| Wire gauge | 0.25mm²(AWG24) |

## Part Number

| Pins | Cable length | Male | | Female | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 3 | 1m | MD-WM03STMF-10CB25 | MD-WM03STMF-10RB25 | MD-WF03STMF-10CB25 | MD-WF03STMF-10RB25 |
| | 3m | MD-WM03STMF-30CB25 | MD-WM03STMF-30RB25 | MD-WF03STMF-30CB25 | MD-WF03STMF-30RB25 |
| | 5m | MD-WM03STMF-50CB25 | MD-WM03STMF-50RB25 | MD-WF03STMF-50CB25 | MD-WF03STMF-50RB25 |
| 4 | 1m | MD-WM04STMF-10CB25 | MD-WM04STMF-10RB25 | MD-WF04STMF-10CB25 | MD-WF04STMF-10RB25 |
| | 3m | MD-WM04STMF-30CB25 | MD-WM04STMF-30RB25 | MD-WF04STMF-30CB25 | MD-WF04STMF-30RB25 |
| | 5m | MD-WM04STMF-50CB25 | MD-WM04STMF-50RB25 | MD-WF04STMF-50CB25 | MD-WF04STMF-50RB25 |
| 5 | 1m | MD-WM05STMF-10CB25 | MD-WM05STMF-10RB25 | MD-WF05STMF-10CB25 | MD-WF05STMF-10RB25 |
| | 3m | MD-WM05STMF-30CB25 | MD-WM05STMF-30RB25 | MD-WF05STMF-30CB25 | MD-WF05STMF-30RB25 |
| | 5m | MD-WM05STMF-50CB25 | MD-WM05STMF-50RB25 | MD-WF05STMF-50CB25 | MD-WF05STMF-50RB25 |
| 6 | 1m | MD-WM06STMF-10CB25 | MD-WM06STMF-10RB25 | MD-WF06STMF-10CB25 | MD-WF06STMF-10RB25 |
| | 3m | MD-WM06STMF-30CB25 | MD-WM06STMF-30RB25 | MD-WF06STMF-30CB25 | MD-WF06STMF-30RB25 |
| | 5m | MD-WM06STMF-50CB25 | MD-WM06STMF-50RB25 | MD-WF06STMF-50CB25 | MD-WF06STMF-50RB25 |
| 7 | 1m | MD-WM07STMF-10CB25 | MD-WM07STMF-10RB25 | MD-WF07STMF-10CB25 | MD-WF07STMF-10RB25 |
| | 3m | MD-WM07STMF-30CB25 | MD-WM07STMF-30RB25 | MD-WF07STMF-30CB25 | MD-WF07STMF-30RB25 |
| | 5m | MD-WM07STMF-50CB25 | MD-WM07STMF-50RB25 | MD-WF07STMF-50CB25 | MD-WF07STMF-50RB25 |
| 8 | 1m | MD-WM08STMF-10CB25 | MD-WM08STMF-10RB25 | MD-WF08STMF-10CB25 | MD-WF08STMF-10RB25 |
| | 3m | MD-WM08STMF-30CB25 | MD-WM08STMF-30RB25 | MD-WF08STMF-30CB25 | MD-WF08STMF-30RB25 |
| | 5m | MD-WM08STMF-50CB25 | MD-WM08STMF-50RB25 | MD-WF08STMF-50CB25 | MD-WF08STMF-50RB25 |
| 9 | 1m | MD-WM09STMF-10CB25 | MD-WM09STMF-10RB25 | MD-WF09STMF-10CB25 | MD-WF09STMF-10RB25 |
| | 3m | MD-WM09STMF-30CB25 | MD-WM09STMF-30RB25 | MD-WF09STMF-30CB25 | MD-WF09STMF-30RB25 |
| | 5m | MD-WM09STMF-50CB25 | MD-WM09STMF-50RB25 | MD-WF09STMF-50CB25 | MD-WF09STMF-50RB25 |

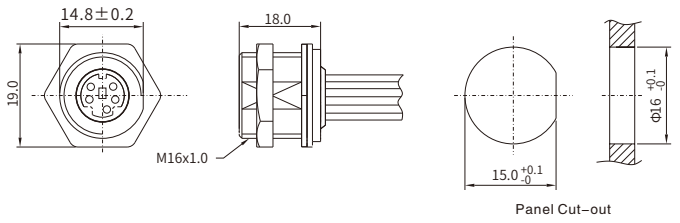
## Default wire colors

| Pin No. | | | | | | | |
|---|---|---|---|---|---|---|---|
| Pin 1 | BU | BN | BN | WH | YE | WH | WH |
| Pin 2 | BN | WH | WH | BU | GY | BN | BN |
| Pin 3 | BK | BU | BU | GN | GN | GN | GN |
| Pin 4 | | BK | BK | YE | BN | YE | YE |
| Pin 5 | | | GY | GY | PK | GY | GY |
| Pin 6 | | | | BN | BU | PK | PK |
| Pin 7 | | | | | RD | BU | BU |
| Pin 8 | | | | | | RD | RD |
| Pin 9 | | | | | | | OR |
| Shell | Braid | | | | | | |

# Industrial I/O

## Mini-Din Straight Connector, Panel Mount, Solder, Front fastened

Female




RoHS

## Specifications

| Contacts | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|
| Pin layout(Female) | | | | | | | |
| Ambient temperature | -15°C~+85°C (flexible installation), -30°C~+85°C (fixed installation) | | | | | | |
| Customized temperature | -25°C ~ +85°C (flexible installation), -40°C ~ +85°C (fixed installation) | | | | | | |
| Connector insert | PBT | | | | | | |
| Connector contacts | Brass with silver plated | | | | | | |
| Coupling nut/screw | PA + GF | | | | | | |
| Seal/O-ring(of Male) | FKM | | | | | | |
| Insulation resistance | ⩾20MΩ | | | | | | |
| Contact resistance | ⩽20mΩ | | | | | | |
| Shielding | Available | | | | | | |
| IP rating | IP67 in locked condition | | | | | | |
| Rated voltage | 100V(1.0A)AC / 12V(2A)DC | | | | | | |
| Wire gauge | 0.25mm$^2$(AWG24) | | | | | | |

## Part Number

| Pins | Cable length | Female |
|---|---|---|
| 3 | 0.1m | MD-WF03STSF-2501 |
| | 0.3m | MD-WF03STSF-2503 |
| 4 | 0.1m | MD-WF04STSF-2501 |
| | 0.3m | MD-WF04STSF-2503 |
| 5 | 0.1m | MD-WF05STSF-2501 |
| | 0.3m | MD-WF05STSF-2503 |
| 6 | 0.1m | MD-WF06STSF-2501 |
| | 0.3m | MD-WF06STSF-2503 |
| 7 | 0.1m | MD-WF07STSF-2501 |
| | 0.3m | MD-WF07STSF-2503 |
| 8 | 0.1m | MD-WF08STSF-2501 |
| | 0.3m | MD-WF08STSF-2503 |
| 9 | 0.1m | MD-WF09STSF-2501 |
| | 0.3m | MD-WF09STSF-2503 |

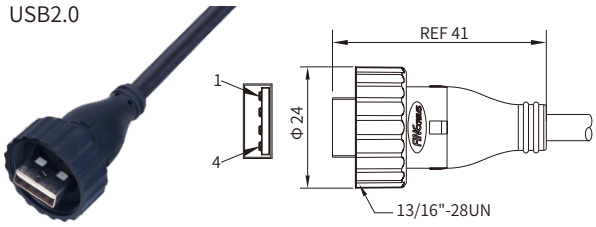
## Default wire colors

| Pin No. | | | | | | | |
|---|---|---|---|---|---|---|---|
| Pin 1 | BU | BN | BN | WH | YE | WH | WH |
| Pin 2 | BN | WH | WH | BU | GY | BN | BN |
| Pin 3 | BK | BU | BU | GN | GN | GN | GN |
| Pin 4 | | BK | BK | YE | BN | YE | YE |
| Pin 5 | | | GY | GY | PK | GY | GY |
| Pin 6 | | | | BN | BU | PK | PK |
| Pin 7 | | | | | RD | BU | BU |
| Pin 8 | | | | | | RD | RD |
| Pin 9 | | | | | | | OR |

# Industrial I/O

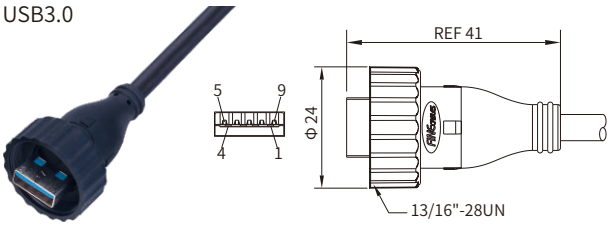
## USB2.0/3.0 Straight Connector, Male Molded Cable

USB2.0




RoHS

USB3.0




RoHS

## Specifications

| Contacts | USB2.0 | USB3.0 |
|---|---|---|
| Pin layout(Male) | | |
| Ambient temperature | -25°C~+85°C(flexible installation),-40°C~+85°C(fixed installation) | |
| Connector insert | PBT | |
| Connector contacts | Brass with gold/sn plated | |
| Connector overmold | TPU | |
| Coupling nut/screw | PA + GF | |
| Seal/O-ring | FKM | |
| Insulation resistance | ⩾100MΩ | |
| Contact resistance | ⩽30mΩ | |
| Shielding | Available | |
| IP rating | IP67 in locked condition | |
| Rated current | 1.5A(USB2.0) / 1.8A(USB3.0) | |
| Rated voltage | 30V AC/DC | |

## Part Number

| Series | Cable length | Male |
|---|---|---|
| USB2.0 | 1m | USB2.0-WM04STMF-10CB |
| | 3m | USB2.0-WM04STMF-30CB |
| | 5m | USB2.0-WM04STMF-50CB |
| USB3.0 | 1m | USB3.0-WM09STMF-10CB |
| | 3m | USB3.0-WM09STMF-30CB |
| | 5m | USB3.0-WM09STMF-50CB |

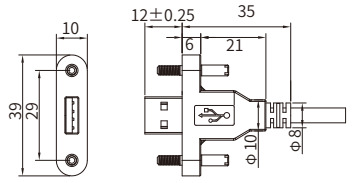
## Default wire colors

| Pin No. | | |
|---|---|---|
| Pin 1 | RD | RD |
| Pin 2 | WH | WH |
| Pin 3 | GN | GN |
| Pin 4 | BK | BK |
| Pin 5 | | BU |
| Pin 6 | | YE |
| Pin 7 | | PE |
| Pin 8 | | VT |
| Pin 9 | | OR |
| Shell | Braid | |

# Industrial I/O

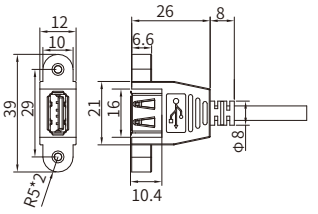
## USB2.0 Straight Connector, Molded Cable, With Screw

Male



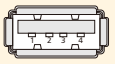

RoHS

Female




RoHS

## Specifications

| Contacts | Male | Female |
|---|---|---|
| Pin layout | |  |
| Ambient temperature | -25°C~+85°C(flexible installation), -40°C~+85°C(fixed installation) | |
| Connector insert | PBT | |
| Connector contacts | Brass with gold/sn plated | |
| Connector overmold | PVC | |
| Coupling screw | Steel with nickel plated | |
| Insulation resistance | ⩾100MΩ | |
| Contact resistance | ⩽30mΩ | |
| Shielding | Available | |
| IP rating | IP50 in locked condition | |
| Mating endurance | ＞500 cycles | |
| Rated current | 1.5A | |
| Rated voltage | 30V AC/DC | |

## Part Number

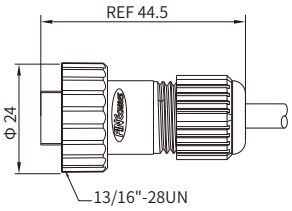
| Series | Cable length | Male | Female |
|---|---|---|---|
| USB2.0 | 1m | USB2.0-BM04STMF-10CB | USB2.0-BF04STMF-10CB |
| | 3m | USB2.0-BM04STMF-30CB | USB2.0-BF04STMF-30CB |
| | 5m | USB2.0-BM04STMF-50CB | USB2.0-BF04STMF-50CB |

## Default wire colors

| Pin No. | |
|---|---|
| Pin 1 | RD |
| Pin 2 | WH |
| Pin 3 | GN |
| Pin 4 | BK |
| Shell | Braid |

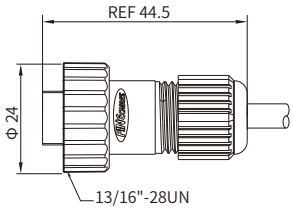
## USB2.0/3.0 Straight Connector, Field Wirable Assembly

USB2.0




RoHS

USB3.0




RoHS

## Specifications

| Contacts | USB2.0 | USB3.0 |
|---|---|---|
| Pin layout(Male) | | |
| Ambient temperature | -25°C~+85°C(flexible installation),-40°C~+85°C(fixed installation) | |
| Connector insert | PBT | |
| Connector contacts | Brass with gold/sn plated | |
| Body | PA | |
| Coupling nut/screw | PA + GF | |
| Seal/O-ring | FKM | |
| Insulation resistance | ⩾100MΩ | |
| Contact resistance | ⩽30mΩ | |
| Shielding | Available | |
| IP rating | IP67 in locked condition | |
| Rated current | 1.5A(USB2.0) / 1.8A(USB3.0) | |
| Rated voltage | 30V AC/DC | |

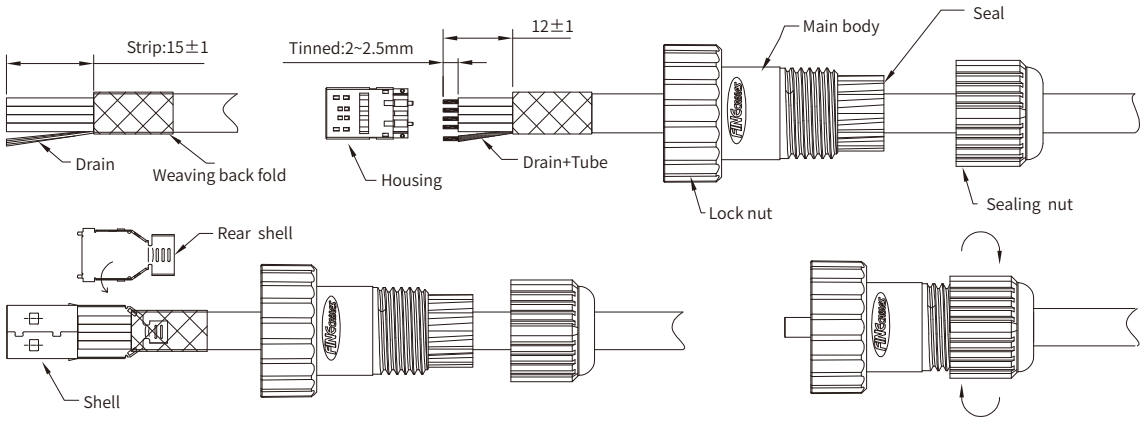
## Part Number

| Series | Cable length | Male |
|---|---|---|
| USB2.0 | 1m | USB2.0-WM04STAF-10CB |
| | 3m | USB2.0-WM04STAF-30CB |
| | 5m | USB2.0-WM04STAF-50CB |
| USB3.0 | 1m | USB3.0-WM09STAF-10CB |
| | 3m | USB3.0-WM09STAF-30CB |
| | 5m | USB3.0-WM09STAF-50CB |

## Default wire colors

| Pin No. | | |
|---|---|---|
| Pin 1 | RD | RD |
| Pin 2 | WH | WH |
| Pin 3 | GN | GN |
| Pin 4 | BK | BK |
| Pin 5 | | BU |
| Pin 6 | | YE |
| Pin 7 | | PE |
| Pin 8 | | VT |
| Pin 9 | | OR |
| Shell | Braid | |

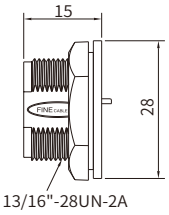
## Assembly Instruction



# Industrial I/O

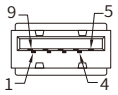
## USB2.0/3.0 Straight Connector, Female Panel Mount, Solder, Front fastened

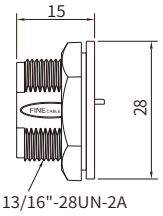
USB2.0




RoHS

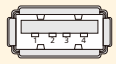
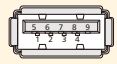
USB3.0




RoHS

## Specifications

| Contacts | USB2.0 | USB3.0 |
|---|---|---|
| Pin layout(Female) |  |  |
| Ambient temperature | -25°C~+85°C(flexible installation),-40°C~+85°C(fixed installation) | |
| Connector insert | PBT+GF | |
| Connector contacts | Phosphor bronze with gold plated | |
| Connector body | PA + GF | |
| Coupling nut/screw | PA + GF | |
| Seal/O-ring | FKM | |
| Insulation resistance | ⩾100MΩ | |
| Contact resistance | ⩽30mΩ | |
| Shielding | Available | |
| IP rating | IP67 in locked condition | |
| Rated current | 1.5A(USB2.0) / 1.8A(USB3.0) | |
| Rated voltage | 30V AC/DC | |

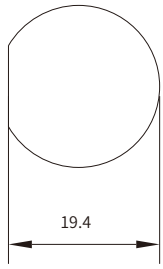
## Part Number

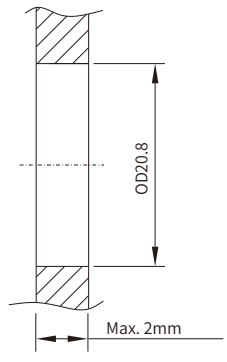
| Series | Female |
|---|---|
| USB2.0 | USB2.0-WF04STSP |
| USB3.0 | USB3.0-WF09STSP |

## Default wire colors

| Pin No. | | |
|---|---|---|
| Pin 1 | RD | RD |
| Pin 2 | WH | WH |
| Pin 3 | GN | GN |
| Pin 4 | BK | BK |
| Pin 5 | | BU |
| Pin 6 | | YE |
| Pin 7 | | PE |
| Pin 8 | | VT |
| Pin 9 | | OR |

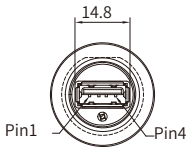
## Panel Cut-out Dimensions

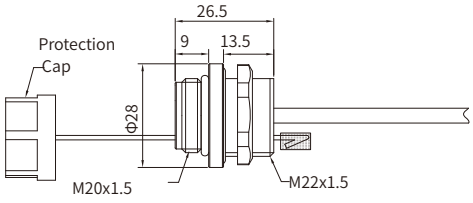


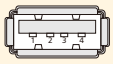
## USB2.0 Straight Connector, Female Panel Mount, Solder, Rear fastened, Metal shell with Protection Cap

RoHS




## Specifications

| Contacts | USB2.0 |
|---|---|
| Pin layout(Female) |  |
| Ambient temperature | -15°C~+85°C (flexible installation), -30°C~+85°C (fixed installation) |
| Customized temperature | -25°C ~ +85°C (flexible installation), -40°C ~ +85°C (fixed installation) |
| Connector insert | PBT+GF |
| Connector contacts | Brass with gold plated |
| Connector body | Stainless steel |
| Coupling nut/screw | Stainless steel |
| Seal/O-ring | FKM |
| Insulation resistance | ⩾ 100 MΩ |
| Contact resistance | ⩽ 30 mΩ |
| Shielding | Available |
| IP rating | IP67 In locked condition |
| Rated current | 1.5A |
| Rated voltage | 30V AC/DC |

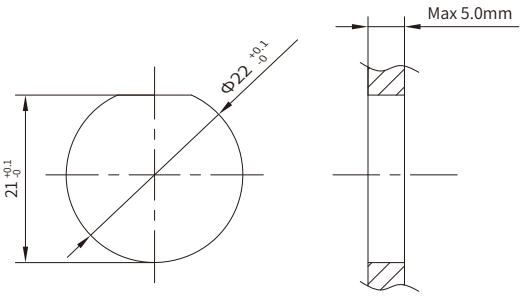
## Part Number

| Series | Female |
|---|---|
| USB2.0 | USB2.0-WF04STSP-MS |

## Default wire colors

| Pin No. | |
|---|---|
| Pin 1 | RD |
| Pin 2 | WH |
| Pin 3 | GN |
| Pin 4 | BK |
| Shell | Braid |

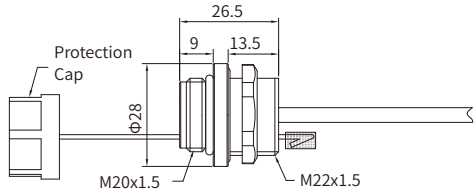
## Panel Cut-out Dimensions



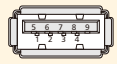
# Industrial I/O

## USB3.0 Straight Connector, Female Panel Mount, Solder, Rear fastened, Metal shell with Protection Cap

RoHS




## Specifications

| Contacts | USB3.0 |
|---|---|
| Pin layout(Female) |  |
| Ambient temperature | -15°C~+85°C (flexible installation), -30°C~+85°C (fixed installation) |
| Customized temperature | -25°C ~ +85°C (flexible installation), -40°C ~ +85°C (fixed installation) |
| Connector insert | PBT+GF |
| Connector contacts | Brass with gold plated |
| Connector body | Stainless steel |
| Coupling nut/screw | Stainless steel |
| Seal/O-ring | FKM |
| Insulation resistance | ⩾ 100 MΩ |
| Contact resistance | ⩽ 30 mΩ |
| Shielding | Available |
| IP rating | IP67 In locked condition |
| Rated current | 1.8A |
| Rated voltage | 30V AC/DC |

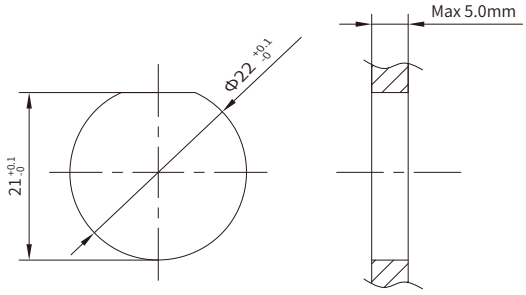
## Part Number

| Series | Female |
|---|---|
| USB3.0 | USB3.0-WF04STSP-MS |

## Default wire colors

| Pin No. | |
|---|---|
| Pin 1 | RD |
| Pin 2 | WH |
| Pin 3 | GN |
| Pin 4 | BK |
| Pin 5 | BU |
| Pin 6 | YE |
| Pin 7 | PE |
| Pin 8 | VT |
| Pin 9 | OR |
| Shell | Braid |

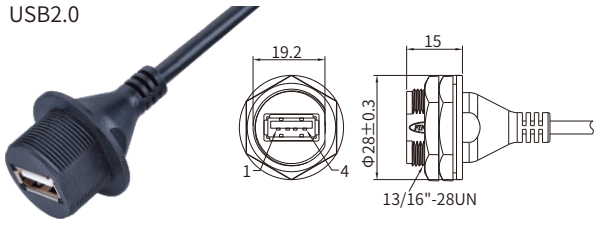
## Panel Cut-out Dimensions



# Industrial I/O

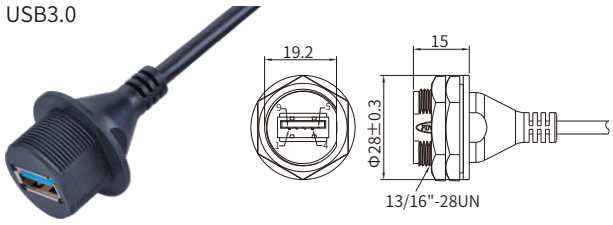
## USB2.0/3.0 Straight Connector, Female Panel Mount+SR, Solder, Front fastened

USB2.0



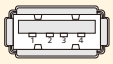
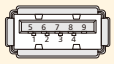

RoHS

USB3.0




RoHS

## Specifications

| Contacts | USB2.0 | USB3.0 |
|---|---|---|
| Pin layout(Female) |  |  |
| Ambient temperature | -25°C~+85°C(flexible installation),-40°C~+85°C(fixed installation) | |
| Connector insert | PBT+GF | |
| Connector contacts | Phosphor bronze with gold plated | |
| Connector body | PA + GF | |
| Coupling nut/screw | PA + GF | |
| SR over-molded | TPU | |
| Seal/O-ring | FKM | |
| Insulation resistance | ⩾100MΩ | |
| Contact resistance | ⩽30mΩ | |
| Shielding | Available | |
| IP rating | IP67 in locked condition | |
| Rated current | 1.5A(USB2.0) / 1.8A(USB3.0) | |
| Rated voltage | 30V AC/DC | |

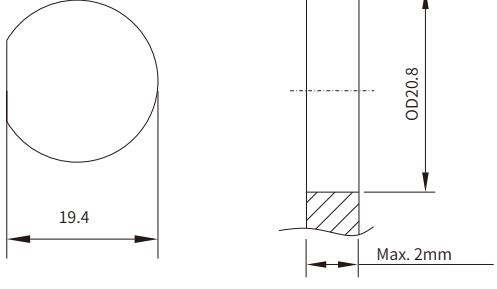
## Part Number

| Series | Cable length | Female |
|---|---|---|
| USB2.0 | 1m | USB2.0-WF04STSP-10CB |
| | 3m | USB2.0-WF04STSP-30CB |
| | 5m | USB2.0-WF04STSP-50CB |
| USB3.0 | 1m | USB3.0-WF09STSP-10CB |
| | 3m | USB3.0-WF09STSP-30CB |
| | 5m | USB3.0-WF09STSP-50CB |

## Default wire colors

| Pin No. | | |
|---|---|---|
| Pin 1 | RD | RD |
| Pin 2 | WH | WH |
| Pin 3 | GN | GN |
| Pin 4 | BK | BK |
| Pin 5 | | BU |
| Pin 6 | | YE |
| Pin 7 | | PE |
| Pin 8 | | VT |
| Pin 9 | | OR |
| Shell | Braid | |

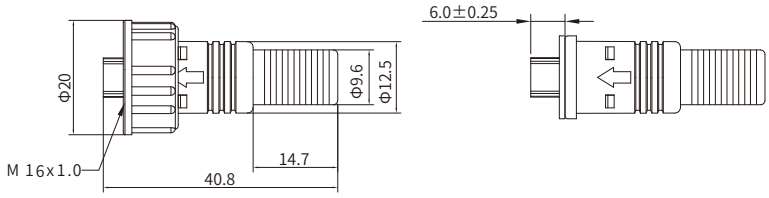
## Panel Cut-out Dimensions



# Industrial I/O

## Micro-USB Straight Connector, Molded Cable

Male




RoHS

## Specifications

| Contacts | 5P Micro B |
|---|---|
| Pin layout(Male) | |
| Ambient temperature | -25°C~+85°C(flexible installation),-40°C~+85°C(fixed installation) |
| Connector insert | LCP+GF/PBT |
| Connector contacts | Brass with gold plated |
| Overmolding | TPU |
| Coupling nut/screw | PA + GF |
| Seal/O-ring | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽30mΩ |
| Shielding | Available |
| IP rating | IP67 in locked condition |
| Rated current | 1A |
| Rated voltage | 30V AC/DC |



## Part Number

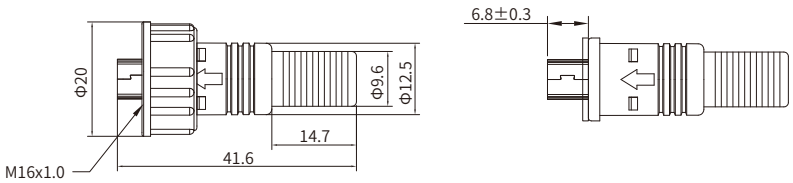
| Pins | Cable length | Male |
|---|---|---|
| 5 | 1m | MC-WM05STSF-10CB |
| | 3m | MC-WM05STSF-30CB |
| | 5m | MC-WM05STSF-50CB |

## Default wire colors

| Pin No. | |
|---|---|
| Pin 1 | RD |
| Pin 2 | WH |
| Pin 3 | GN |
| Pin 4 | BK |
| Shell | Braid |

## Mini-USB Straight Connector, Molded Cable

Male




RoHS

## Specifications

| Contacts | 5P Mini B |
|---|---|
| Pin layout(Male) | |
| Ambient temperature | -25°C~+85°C(flexible installation),-40°C~+85°C(fixed installation) |
| Connector insert | PBT+GF |
| Connector contacts | Brass with gold plated |
| Connector overmold | TPU |
| Coupling nut/screw | PA + GF |
| Seal/O-ring | FKM |
| Insulation resistance | ≥20MΩ |
| Contact resistance | ≤20mΩ |
| Shielding | Available |
| IP rating | IP67 in locked condition |
| Rated current | 1A |
| Rated voltage | 30V AC/DC |

## Part Number

| Pins | Cable length | Male |
|---|---|---|
| 5 | 1m | MB-WM05STSF-10CB |
| | 3m | MB-WM05STSF-30CB |
| | 5m | MB-WM05STSF-50CB |

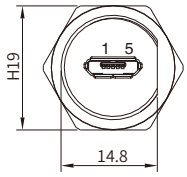
## Default wire colors

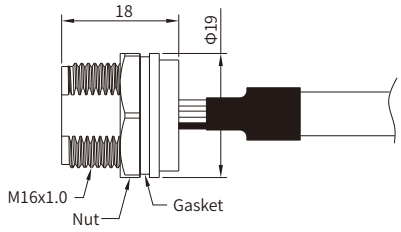
| Pin No. | |
|---|---|
| Pin 1 | RD |
| Pin 2 | WH |
| Pin 3 | GN |
| Pin 4 | BK |
| Shell | Braid |

# Industrial I/O

## Micro-USB Straight Connector, Panel Mount, Solder, Front fastened

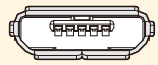
Female




RoHS

## Specifications

| Contacts | 5P Micro B |
|---|---|
| Pin layout(Female) |  |
| Ambient temperature | -25°C~+85°C(flexible installation),-40°C~+85°C(fixed installation) |
| Connector insert | LCP+GF/PBT |
| Connector contacts | Brass with gold plated |
| Connector body | PA + GF |
| Coupling nut/screw | PA + GF |
| Seal/O-ring | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽30mΩ |
| Shielding | Available |
| IP rating | IP67 in locked condition |
| Rated current | 1A |
| Rated voltage | 30V AC/DC |

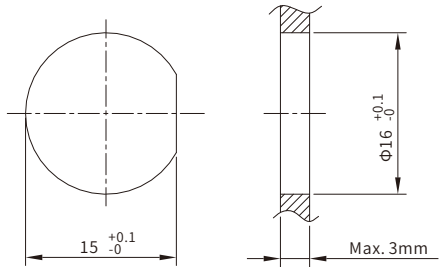
## Part Number

| Pins | Cable length | Female |
|---|---|---|
| 5 | 1m | MB-WF05STSP-MICRO-10CB |
| | 3m | MB-WF05STSP-MICRO-30CB |
| | 5m | MB-WF05STSP-MICRO-50CB |

## Default wire colors

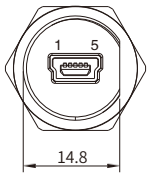
| Pin No. | |
|---|---|
| Pin 1 | RD |
| Pin 2 | WH |
| Pin 3 | GN |
| Pin 4 | BK |
| Shell | Braid |

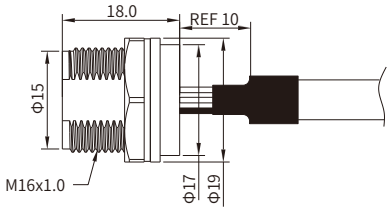
## Panel Cut-out Dimensions



## Mini-USB Straight Connector, Panel Mount, Solder, Front fastened

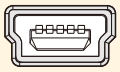
Female




RoHS

## Specifications

| Contacts | 5P Mini B |
|---|---|
| Pin layout(Female) |  |
| Ambient temperature | -25°C~+85°C(flexible installation),-40°C~+85°C(fixed installation) |
| Connector insert | PBT+GF |
| Connector contacts | Phosphor bronze with gold plated |
| Connector body | PA + GF |
| Coupling nut/screw | PA + GF |
| Seal/O-ring | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽30mΩ |
| Shielding | Available |
| IP rating | IP67 in locked condition |
| Rated current | 1A |
| Rated voltage | 30V AC/DC |

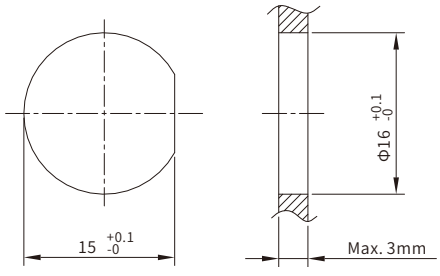
## Part Number

| Pins | Cable length | Female |
|---|---|---|
| 5 | 1m | MB-WF05STSP-10CB |
| | 3m | MB-WF05STSP-30CB |
| | 5m | MB-WF05STSP-50CB |

## Default wire colors

| Pin No. | |
|---|---|
| Pin 1 | RD |
| Pin 2 | WH |
| Pin 3 | GN |
| Pin 4 | BK |
| Shell | Braid |

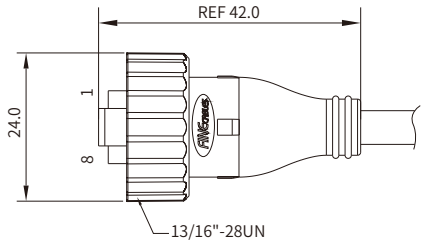
## Panel Cut-out Dimensions



# Industrial I/O

## RJ45 Straight Connector, Molded Cable

Male




RoHS

## Specifications

| Contacts | 8P8C |
|---|---|
| Pin layout(Male) | |
| Ambient temperature | -25°C~+85°C(flexible installation),-40°C~+85°C(fixed installation) |
| Connector insert | PC |
| Connector contacts | Copper alloy with gold plated |
| Connector overmold | TPU |
| Coupling nut/screw | PA + GF |
| Seal/O-ring | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽30mΩ |
| Shielding | Available or Unavailable |
| IP rating | IP67 in locked condition |
| Rated current | 1.5A |
| Rated voltage | 125V AC/DC |
| Wire gauge | 0.25mm² (AWG24) |

## Part Number

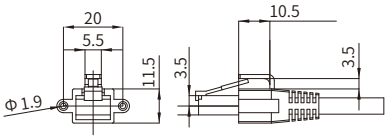
| Pins | Cable length | Male |
|---|---|---|
| 8P8C | 1m | RJ45-WM08STMF-10CB25 |
| | 3m | RJ45-WM08STMF-30CB25 |
| | 5m | RJ45-WM08STMF-50CB25 |

## Default wire colors

| Pin No. | |
|---|---|
| Pin 1 | WH/OR |
| Pin 2 | OR |
| Pin 3 | WH/GN |
| Pin 4 | BU |
| Pin 5 | WH/BU |
| Pin 6 | GN |
| Pin 7 | WH/BN |
| Pin 8 | BN |
| Shell | Braid |

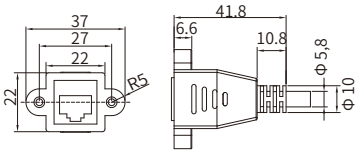
## RJ45 Straight Connector, Molded Cable, With Screw

Male




**RoHS**

Female




**RoHS**

## Specifications

| Contacts | 8P8C |
|---|---|
| Pin layout(Male) | |
| Pin layout(Female) | |
| Ambient temperature | -25°C~+85°C(flexible installation),-40°C~+85°C(fixed installation) |
| Connector insert | PC |
| Connector contacts | Male: Copper alloy with gold plated; Female:Phosphor bronze with gold plated |
| Connector overmold | PVC |
| Coupling nut/screw | Steel with nickel plated |
| Insulation resistance | ≥100MΩ |
| Contact resistance | ≤30mΩ |
| Shielding | Available |
| Mating endurance | >500 cycles |
| Rated current | 1.5A |
| Rated voltage | 125V AC/DC |
| Wire gauge | 0.25mm² (AWG24) |

## Part Number

| Pins | Cable length | Male | Female |
|---|---|---|---|
| 8P8C | 1m | RJ45-BM08STMF-10CB25 | RJ45-BF08STMF-10CB25 |
| | 3m | RJ45-BM08STMF-30CB25 | RJ45-BF08STMF-30CB25 |
| | 5m | RJ45-BM08STMF-50CB25 | RJ45-BF08STMF-50CB25 |

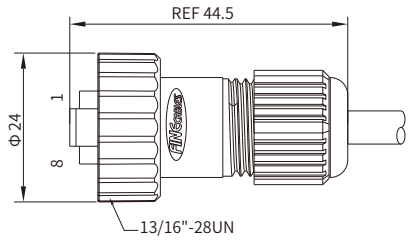
## Default wire colors

| Pin No. | |
|---|---|
| Pin 1 | WH/OR |
| Pin 2 | OR |
| Pin 3 | WH/GN |
| Pin 4 | BU |
| Pin 5 | WH/BU |
| Pin 6 | GN |
| Pin 7 | WH/BN |
| Pin 8 | BN |
| Shell | Braid |

# Industrial I/O

## RJ45 Straight Connector, Field Wirable Assembly

Male




**RoHS**

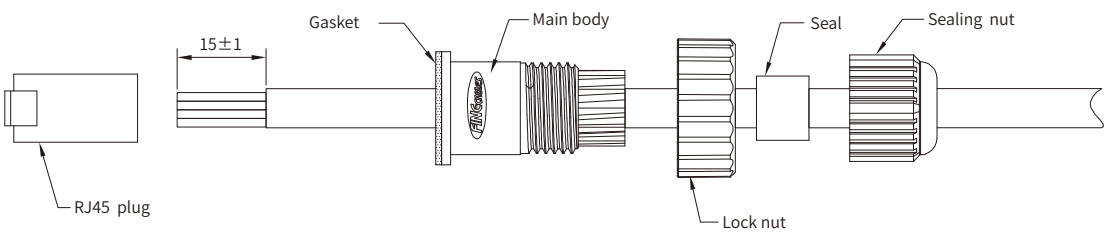
## Specifications

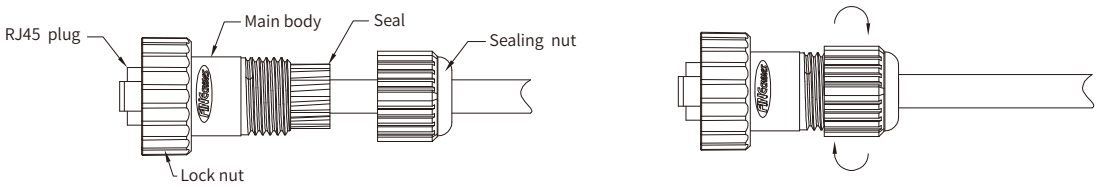
| Contacts | 8P8C |
|---|---|
| Pin layout(Male) | |
| Ambient temperature | -25°C~+85°C |
| Connector insert | PC |
| Connector contacts | Copper alloy with gold plated |
| Connector body | PA + GF |
| Coupling nut/screw | PA + GF |
| Seal/O-ring | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽30mΩ |
| Shielding | Available |
| IP rating | IP67 in locked condition |
| Rated current | 1.5A |
| Rated voltage | 30V AC/DC |
| Wire gauge | 0.25mm² (AWG24) |

## Part Number

| Pins | Male |
|---|---|
| 8P8C | RJ45S-WM08STAF |

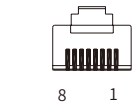
## Assembly Instruction

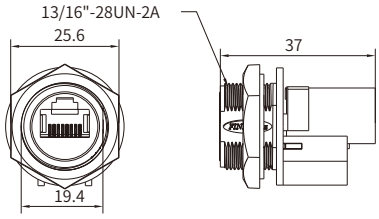


## RJ45 Straight Connector, Panel Mount, Front fastened

Female




RoHS

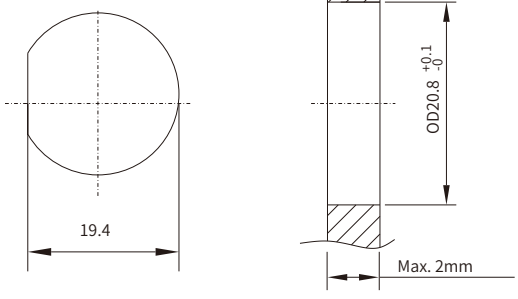
## Specifications

| Contacts | 8P8C |
|---|---|
| Pin layout(Female) | |
| Ambient temperature | -25°C~+85°C |
| Connector insert | PBT+GF |
| Connector contacts | Phosphor bronze with gold plated |
| Coupling nut/screw | PA + GF |
| Seal/O-ring | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽30mΩ |
| Shielding | Available |
| IP rating | IP67 in locked condition |
| Rated current | 1.5A |
| Rated voltage | 125V AC/DC |

## Part Number

| Pins | Female |
|---|---|
| 8P8C | RJ45S-WF08STSP |

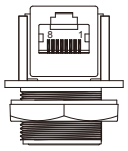
## Panel Cut-out Dimensions

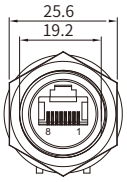


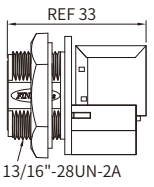
# Industrial I/O

## RJ45 Angled Connector, Panel Mount, Front fastened

Female

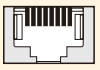





CE RoHS IP67

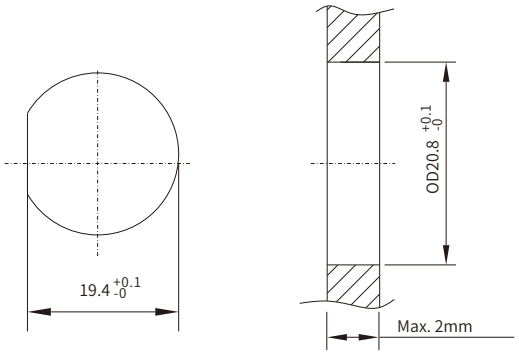
## Specifications

| Contacts | 8P8C |
|---|---|
| Pin layout(Female) |  |
| Ambient temperature | -25°C~+85°C |
| Connector insert | PBT+GF |
| Connector contacts | Phosphor bronze with gold plated |
| Coupling nut/screw | PA + GF |
| Seal/O-ring | FKM |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽30mΩ |
| Shielding | Available |
| IP rating | IP67 in locked condition |
| Rated current | 1.5A |
| Rated voltage | 125V AC/DC |

## Part Number

| Pins | Female |
|---|---|
| 8P8C | RJ45S-WF08RASP |

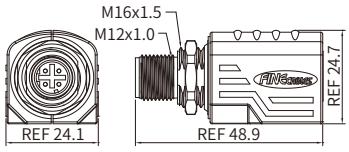
## Panel Cut-out Dimensions



# Industrial I/O

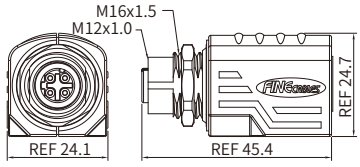
## M12-RJ45 Adapters, Straight, Weld type

Male



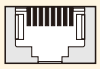

CE RoHS

Female




CE RoHS

## Specifications

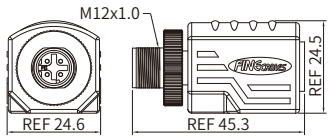
| Contacts | RJ45 Female | M12 Male | M12 Female |
|---|---|---|---|
| Pin layout |  | | |
| Ambient temperature | -25°C ~ +85°C | | |
| Connector insert | PA | | |
| Connector contacts | Copper alloy | | |
| Coupling nut/screw | Brass with nickel plated | | |
| Seal/O-ring | FKM | | |
| Shielding | Unavailable | | |
| IP rating | M12 male IP67 In locked condition / M12 female IP67 In locked condition | | |
| Rated current | 1.5A | | |
| Rated voltage | 125V AC/DC | | |

## Part Number

| Pins | RJ45 Female-M12 Male | RJ45 Female-M12 Female |
|---|---|---|
| 4 | M12/RJ45-MDST(P) | M12/RJ45-FDST(P) |

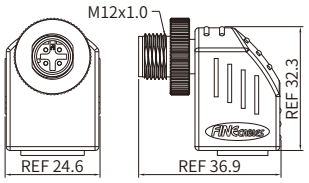
## M12-RJ45 Adapters, Molded type

Straight



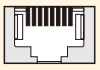

RoHS

Angled




RoHS

## Specifications

| Contacts | RJ45 Female | M12 Male |
|---|---|---|
| Pin layout |  | |
| Ambient temperature | -25°C ~ +85°C | |
| Connector insert | TPU | |
| Connector contacts | Copper alloy | |
| Coupling nut/screw | Brass with nickel plated | |
| Shielding | Unavailable | |
| IP rating | M12 IP67 In locked condition | |
| Rated current | 1.5A | |
| Rated voltage | 125V AC/DC | |

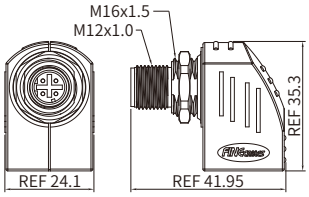
## Part Number

| Pins | Straight | Angled |
|---|---|---|
| 4 | M12/RJ45-MDST | M12/RJ45-MDRA |

# Industrial I/O

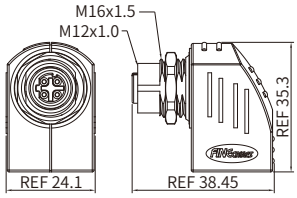
## M12-RJ45 Adapters, Angled, Weld type

Male



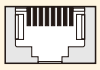

RoHS

Female




RoHS

## Specifications

| Contacts | RJ45 Female | M12 Male | M12 Female |
|---|---|---|---|
| Pin layout |  | | |
| Ambient temperature | -25°C ~ +85°C | | |
| Connector insert | PA | | |
| Connector contacts | Copper alloy | | |
| Coupling nut/screw | Brass with nickel plated | | |
| Seal/O-ring | FKM | | |
| Shielding | Unavailable | | |
| IP rating | M12 male IP67 In locked condition / M12 female IP67 In locked condition | | |
| Rated current | 1.5A | | |
| Rated voltage | 125V AC/DC | | |

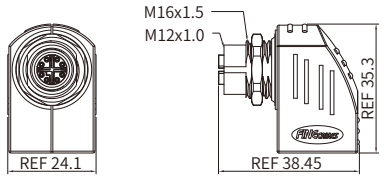
## Part Number

| Pins | RJ45 Female-M12 Male | RJ45 Female-M12 Female |
|---|---|---|
| 4 | M12/RJ45-MDRA(P) | M12/RJ45-FDRA(P) |

# Industrial I/O

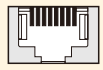
## M12-RJ45 Adapters, Angled, Weld type, X-coding

Female




**RoHS**

## Specifications

| Contacts | RJ45 Female | M12 Female |
|---|---|---|
| Pin layout |  | |
| Ambient temperature | -25°C ~ +85°C | |
| Connector insert | PA | |
| Connector contacts | Copper alloy | |
| Coupling nut/screw | Brass with nickel plated | |
| Seal/O-ring | FKM | |
| Shielding | Unavailable | |
| IP rating | M12 IP67 In locked condition | |
| Rated current | 0.5A | |
| Rated voltage | 50V AC/60V DC | |

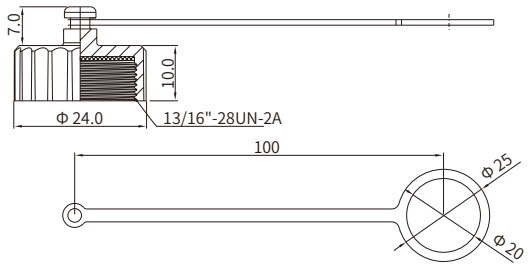
## Part Number

| Pins | RJ45 Female-M12 Female |
|---|---|
| 8 | M12/RJ45-FXRA(P) |

# Industrial I/O Protection Cap

## USB/RJ45 Protection cap for Female Panel-mount Connector

- Connector series: USB/RJ45
- Gender: for Female
- Locking type: Fix screw
- Part No.: PCN13/16"-28UN-1



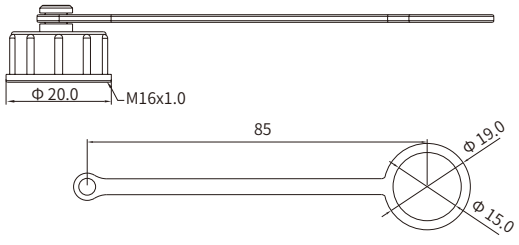

### General information

| | |
|---|---|
| Material: | PA+GF |
| O-ring: | FKM |
| Loop: | TPU |

| | |
|---|---|
| Color: | Black |
| Degree of protection: | IP67 in locked condition |

## Mini-USB/Micro-USB/Mini-Din Protection cap for Female Panel-mount Connector

- Connector series: Mini-USB/Micro-USB/Mini-Din
- Gender: for Female
- Locking type: Fix screw
- Part No.: PCN16x1.0-1




### General information

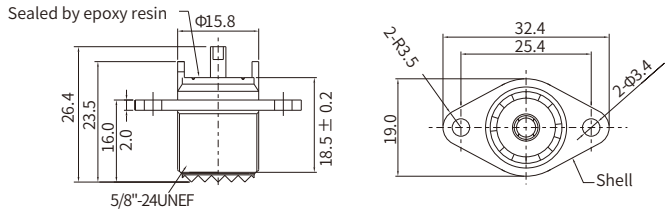
| | |
|---|---|
| Material: | PA+GF |
| O-ring: | FKM |
| Loop: | TPU |

| | |
|---|---|
| Color: | Black |
| Degree of protection: | IP67 in locked condition |

# Industrial I/O

## Waterproof UHF Connector

Female




**RoHS**

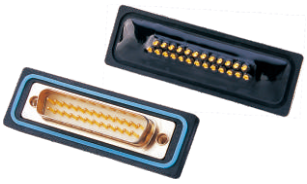
## Specifications

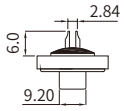
| Contacts | UHF |
|---|---|
| Pin layout(Female) | |
| Ambient temperature | -30°C ~ +85°C |
| Connector insert | PTFE |
| Connector contacts | Brass with nickel plated |
| Coupling nut/screw | PA+GF |
| Seal | Epoxy resin |
| Insulation resistance | ⩾10MΩ |
| Contact resistance | ⩽5mΩ |
| Shielding | Available |
| IP rating | IP67 In locked condition |
| Rated current | 1A |
| Rated voltage | 250V AC/DC |

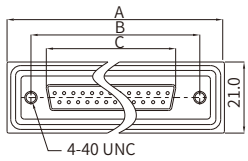
## Part Number

| Pins | Female |
|---|---|
| / | UHF |

## D-Sub Male Panel Mount, Solder



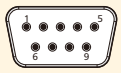
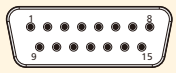
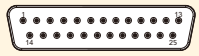



| | FC P/N. | A | B | C |
|---|---|---|---|---|
| 9P | DBW09MSNS | 39.4 | 25.0 | 16.92 |
| 15P | DBW15MSNS | 47.8 | 33.5 | 25.25 |
| 25P | DBW25MSNS | 64.5 | 47.04 | 38.96 |

RoHS

## Specifications

| Contacts | 9 | 15 | 25 |
|---|---|---|---|
| Pin layout(Male) |  |  |  |
| Ambient temperature | -25°C~+85°C(flexible installation),-40°C~+85°C(fixed installation) | | |
| Connector insert | PBT+GF | | |
| Connector contacts | Brass gold plated | | |
| Coupling nut/screw | Brass nickel plated | | |
| Seal / O-ring | FKM | | |
| Insulation resistance | ⩾1000MΩ | | |
| Contact resistance | ⩽10mΩ | | |
| Shielding | Unavailable | | |
| IP rating | IP67 in locked condition | | |
| Rated current | 5A | | |
| Rated voltage | 300V AC/DC | | |

## Part Number

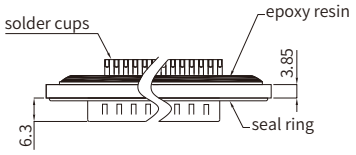
| Pins | Male |
|---|---|
| 9 | DBW09MSNS |
| 15 | DBW15MSNS |
| 25 | DBW25MSNS |

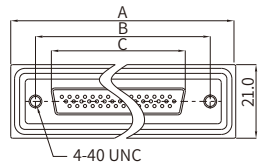
## Default wire colors

| Pin No. | | | |
|---|---|---|---|
| Pin 1 | WH | BK | BK |
| Pin 2 | BN | RD | BN |
| Pin 3 | GN | PK | RD |
| Pin 4 | YE | GY | OR |
| Pin 5 | GY | LT GN | YE |
| Pin 6 | PK | GN | GN |
| Pin 7 | BU | YE | BU |
| Pin 8 | RD | VT | VT |
| Pin 9 | BK | BK/WH | GY |
| Pin 10 | | WH | WH |
| Pin 11 | | LT BU | PK |
| Pin 12 | | BU | LT GN |
| Pin 13 | | BN | LT BU |
| Pin 14 | | OR | BK/WH |
| Pin 15 | | BK/RD | BK/RD |
| Pin 16 | | | BK/YE |
| Pin 17 | | | BK/GN |
| Pin 18 | | | BK/BU |
| Pin 19 | | | RD/WH |
| Pin 20 | | | RD/YE |
| Pin 21 | | | RD/GN |
| Pin 22 | | | RD/BU |
| Pin 23 | | | GN/WH |
| Pin 24 | | | GN/YE |
| Pin 25 | | | GN/BU |

# Industrial I/O

## D-Sub Male Panel Mount, Solder

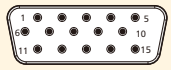
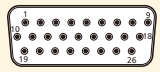
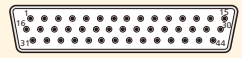



| | FC P/N. | A | B | C |
|---|---|---|---|---|
| 15P | HDBW15MSNS | 39.4 | 25.0 | 16.92 |
| 26P | HDBW26MSNS | 47.8 | 33.5 | 25.25 |
| 44P | HDBW44MSNS | 64.5 | 47.04 | 38.96 |

RoHS

## Specifications

| Contacts | 15 | 26 | 44 |
|---|---|---|---|
| Pin layout(Male) |  |  |  |
| Ambient temperature | -25°C~+85°C(flexible installation),-40°C~+85°C(fixed installation) | | |
| Connector insert | PBT+GF | | |
| Connector contacts | Brass gold plated | | |
| Coupling nut/screw | Brass nickel plated | | |
| Seal / O-ring | FKM | | |
| Insulation resistance | ⩾1000MΩ | | |
| Contact resistance | ⩽10mΩ | | |
| Shielding | Unavailable | | |
| IP rating | IP67 in locked condition | | |
| Rated current | 5A | | |
| Rated voltage | 300V AC/DC | | |

## Part Number

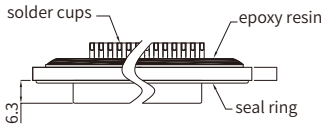
| Pins | Male |
|---|---|
| 15 | HDBW15MSNS |
| 26 | HDBW26MSNS |
| 44 | HDBW44MSNS |

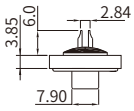
## Default wire colors

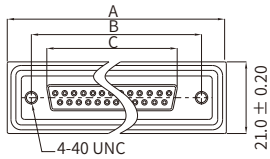
| Pin No. | | |
|---|---|---|
| Pin 1 | BK | BU |
| Pin 2 | RD | VT |
| Pin 3 | PK | RD |
| Pin 4 | GY | OR |
| Pin 5 | LT GN | YE |
| Pin 6 | GN | OR/BK |
| Pin 7 | YE | BK |
| Pin 8 | VT | WH |
| Pin 9 | BK/WH | WH/BU |
| Pin 10 | WH | WH/YE |
| Pin 11 | LT BU | WH/OR |
| Pin 12 | BU | BN/BK |
| Pin 13 | BN | PK |
| Pin 14 | OR | GN |
| Pin 15 | BK/RD | BN |
| Pin 16 | | GN |
| Pin 17 | | BN |
| Pin 18 | | WH/GN |
| Pin 19 | | WH/BN |
| Pin 20 | | WH/RD |
| Pin 21 | | GY |
| Pin 22 | | WH |
| Pin 23 | | BU/BK |
| Pin 24 | | GY |
| Pin 25 | | BU |
| Pin 26 | | RD/WH |

# Industrial I/O

## D-Sub Female Panel Mount, Solder



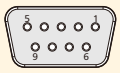
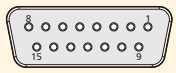
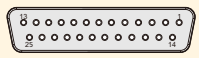




| | FC P/N. | A | B | C |
|---|---|---|---|---|
| 9P | DBW09FSNS | 39.4 | 25.0 | 16.33 |
| 15P | DBW15FSNS | 47.8 | 33.5 | 24.66 |
| 25P | DBW25FSNS | 64.5 | 47.04 | 38.38 |

RoHS

## Specifications

| Contacts | 9 | 15 | 25 |
|---|---|---|---|
| Pin layout(Female) |  |  |  |
| Ambient temperature | -25°C~+85°C(flexible installation),-40°C~+85°C(fixed installation) | | |
| Connector insert | PBT+GF | | |
| Connector contacts | Brass gold plated | | |
| Coupling nut/screw | Brass nickel plated | | |
| Seal / O-ring | FKM | | |
| Insulation resistance | ⩾1000MΩ | | |
| Contact resistance | ⩽10mΩ | | |
| Shielding | Unavailable | | |
| IP rating | IP67 in locked condition | | |
| Rated current | 5A | | |
| Rated voltage | 300V AC/DC | | |

## Part Number

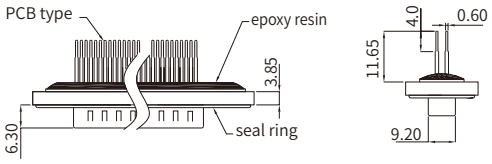
| Pins | Female |
|---|---|
| 9 | DBW09FSNS |
| 15 | DBW15FSNS |
| 25 | DBW25FSNS |

## Default wire colors

| Pin No. | | | |
|---|---|---|---|
| Pin 1 | WH | BK | BK |
| Pin 2 | BN | RD | BN |
| Pin 3 | GN | PK | RD |
| Pin 4 | YE | GY | OR |
| Pin 5 | GY | LT GN | YE |
| Pin 6 | PK | GN | GN |
| Pin 7 | BU | YE | BU |
| Pin 8 | RD | VT | VT |
| Pin 9 | BK | BK/WH | GY |
| Pin 10 | | WH | WH |
| Pin 11 | | LT BU | PK |
| Pin 12 | | BU | LT GN |
| Pin 13 | | BN | LT BU |
| Pin 14 | | OR | BK/WH |
| Pin 15 | | BK/RD | BK/RD |
| Pin 16 | | | BK/YE |
| Pin 17 | | | BK/GN |
| Pin 18 | | | BK/BU |
| Pin 19 | | | RD/WH |
| Pin 20 | | | RD/YE |
| Pin 21 | | | RD/GN |
| Pin 22 | | | RD/BU |
| Pin 23 | | | GN/WH |
| Pin 24 | | | GN/YE |
| Pin 25 | | | GN/BU |

# Industrial I/O

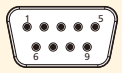
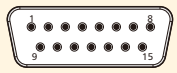
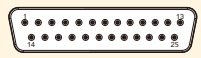
## D-Sub Male Panel Mount, PCB Type




| | FC P/N. | A | B | C |
|---|---|---|---|---|
| 9P | DBW09MSNB | 39.4 | 25.0 | 16.92 |
| 15P | DBW15MSNB | 47.8 | 33.5 | 25.25 |
| 25P | DBW25MSNB | 64.5 | 47.04 | 38.96 |

RoHS

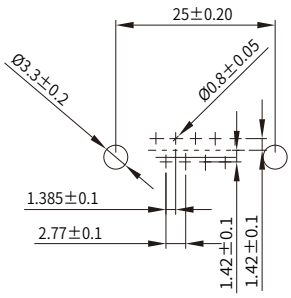
## Specifications

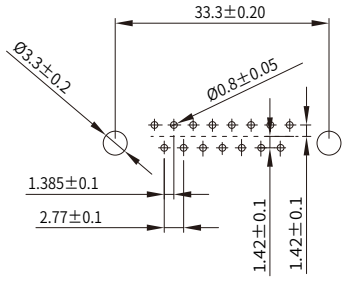
| Contacts | 9 | 15 | 25 |
|---|---|---|---|
| Pin layout(Male) |  |  |  |
| Ambient temperature | -25°C~+85°C | | |
| Connector insert | PBT+GF | | |
| Connector contacts | Brass gold plated | | |
| Coupling nut/screw | Brass nickel plated | | |
| Seal / O-ring | FKM | | |
| Insulation resistance | ⩾1000MΩ | | |
| Contact resistance | ⩽10mΩ | | |
| Shielding | Unavailable | | |
| IP rating | IP67 in locked condition | | |
| Rated current | 5A | | |
| Rated voltage | 300V AC/DC | | |

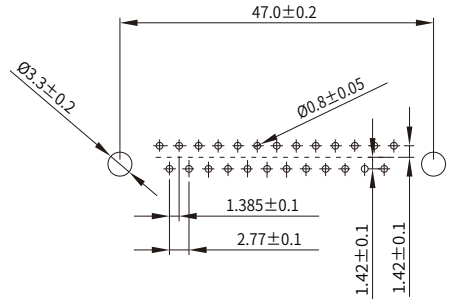
## Part Number

| Pins | Male |
|---|---|
| 9 | DBW09MSNB |
| 15 | DBW15MSNB |
| 25 | DBW25MSNB |

## Recommended Panel cut

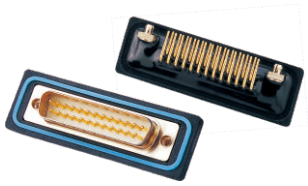


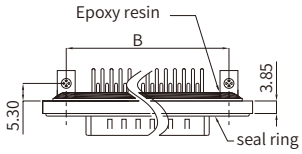



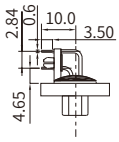



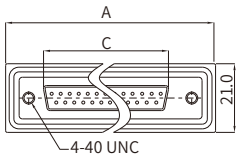
# Industrial I/O

## D-Sub Male Panel Mount, Angled Contacts PCB Type





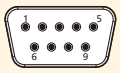
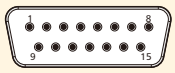
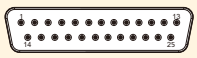




| | FC P/N. | A | B | C |
|---|---|---|---|---|
| 9P | DBW09MABB | 39.4 | 25.0 | 16.92 |
| 15P | DBW15MABB | 47.8 | 33.5 | 25.25 |
| 25P | DBW25MABB | 64.5 | 47.04 | 38.96 |

RoHS

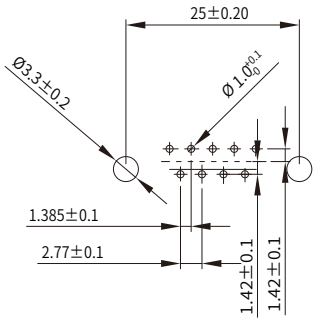
## Specifications

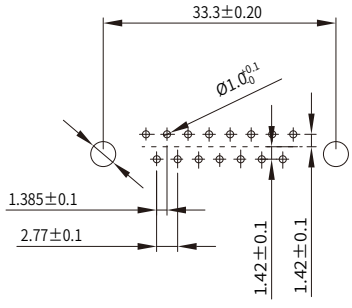
| Contacts | 9 | 15 | 25 |
|---|---|---|---|
| Pin layout(Male) |  |  |  |
| Ambient temperature | -25°C~+85°C | | |
| Connector insert | PBT+GF | | |
| Connector contacts | Brass gold plated | | |
| Coupling nut/screw | Brass nickel plated | | |
| Seal / O-ring | FKM | | |
| Insulation resistance | ⩾1000MΩ | | |
| Contact resistance | ⩽10mΩ | | |
| Shielding | Unavailable | | |
| IP rating | IP67 in locked condition | | |
| Rated current | 5A | | |
| Rated voltage | 300V AC/DC | | |

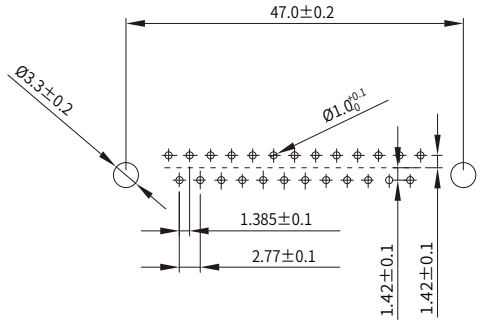
## Part Number

| Pins | Male |
|---|---|
| 9 | DBW09MABB |
| 15 | DBW15MABB |
| 25 | DBW25MABB |

## Recommended Panel cut

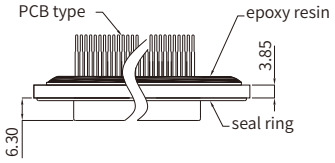


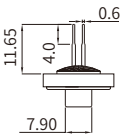



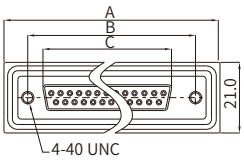



# Industrial I/O

## D-Sub Female Panel Mount, PCB Type



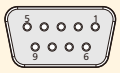
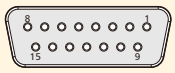
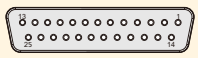




| | FC P/N. | A | B | C |
|---|---|---|---|---|
| 9P | DBW09FSNB | 39.4 | 25.0 | 16.33 |
| 15P | DBW15FSNB | 47.8 | 33.5 | 24.66 |
| 25P | DBW25FSNB | 64.5 | 47.04 | 38.38 |

RoHS

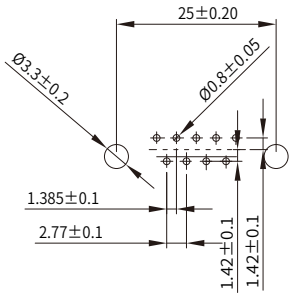
## Specifications

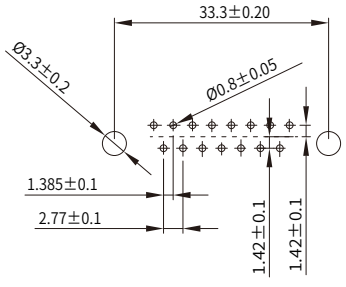
| Contacts | 9 | 15 | 25 |
|---|---|---|---|
| Pin layout(Female) |  |  |  |
| Ambient temperature | -25°C~+85°C | | |
| Connector insert | PBT+GF | | |
| Connector contacts | Brass gold plated | | |
| Coupling nut/screw | Brass nickel plated | | |
| Seal / O-ring | FKM | | |
| Insulation resistance | ⩾1000MΩ | | |
| Contact resistance | ⩽10mΩ | | |
| Shielding | Unavailable | | |
| IP rating | IP67 in locked condition | | |
| Rated current | 5A | | |
| Rated voltage | 300V AC/DC | | |

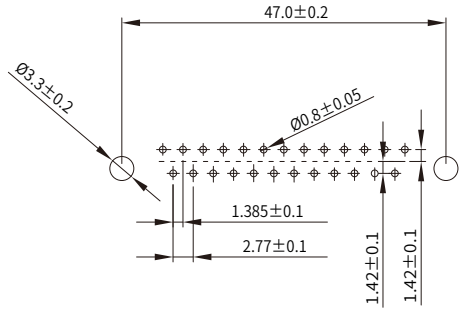
## Part Number

| Pins | Female |
|---|---|
| 9 | DBW09FSNB |
| 15 | DBW15FSNB |
| 25 | DBW25FSNB |

## Recommended Panel cut

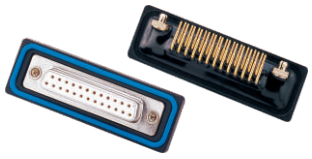


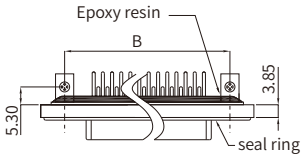



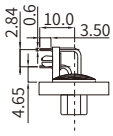



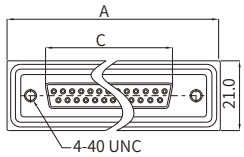
# Industrial I/O

## D-Sub Female Panel Mount, Angled Contacts PCB Type





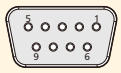
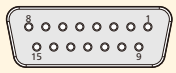
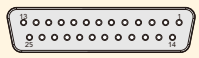




| | FC P/N. | A | B | C |
|---|---|---|---|---|
| 9P | DBW09FABB | 39.4 | 25.0 | 16.33 |
| 15P | DBW15FABB | 47.8 | 33.5 | 24.66 |
| 25P | DBW25FABB | 64.5 | 47.04 | 38.38 |

RoHS

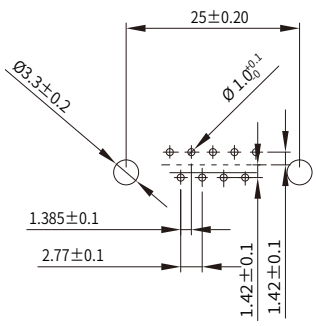
## Specifications

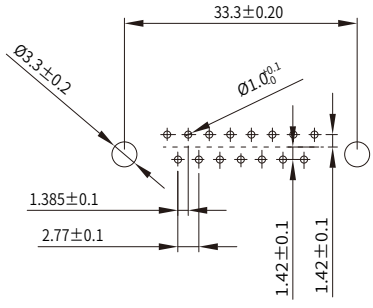
| Contacts | 9 | 15 | 25 |
|---|---|---|---|
| Pin layout(Female) |  |  |  |
| Ambient temperature | -25°C~+85°C | | |
| Connector insert | PBT+GF | | |
| Connector contacts | Brass gold plated | | |
| Coupling nut/screw | Brass nickel plated | | |
| Seal / O-ring | FKM | | |
| Insulation resistance | ⩾1000MΩ | | |
| Contact resistance | ⩽10mΩ | | |
| Shielding | Unavailable | | |
| IP rating | IP67 in locked condition | | |
| Rated current | 5A | | |
| Rated voltage | 300V AC/DC | | |

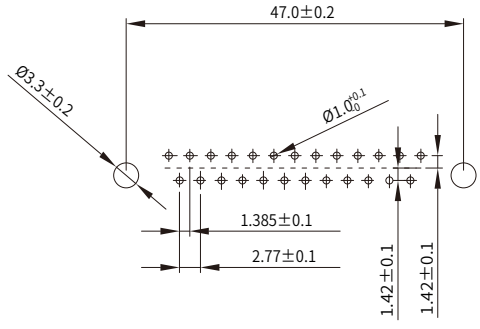
## Part Number

| Pins | Female |
|---|---|
| 9 | DBW09FABB |
| 15 | DBW15FABB |
| 25 | DBW25FABB |

## Recommended Panel cut

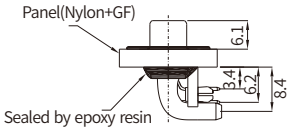


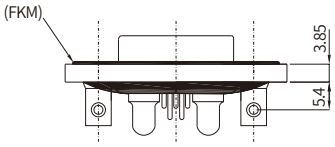



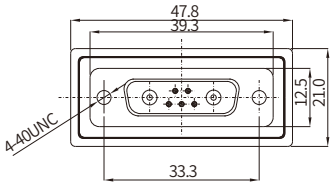



# Industrial I/O

## D-Sub Male Panel mount, Angled Contacts PCB type

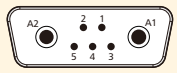



**RoHS**

## Specifications

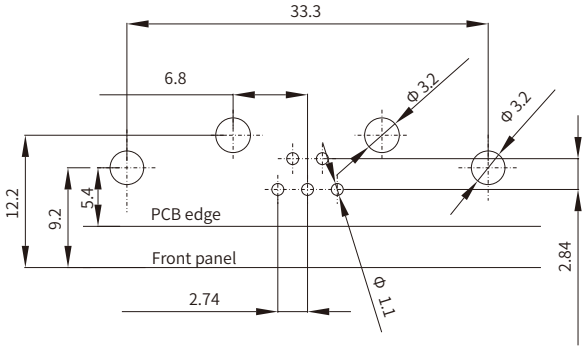
| Contacts | 7W2 |
|---|---|
| Pin layout(Female) |  |
| Ambient temperature | -25°C~+85°C |
| Connector insert | PBT+GF |
| Connector contacts | Brass gold plated |
| Coupling nut/screw | Brass nickel plated |
| Seal / O-ring | FKM |
| Insulation resistance | ⩾1000MΩ |
| Contact resistance | ⩽10mΩ |
| Shielding | Unavailable |
| IP rating | IP67 in locked condition |
| Mating cycles | >1000 cycles |
| Rated current | 30A(PinA1&A2) / 5A(Pin1~5) |
| Rated voltage | 300V AC/DC |



## Part Number

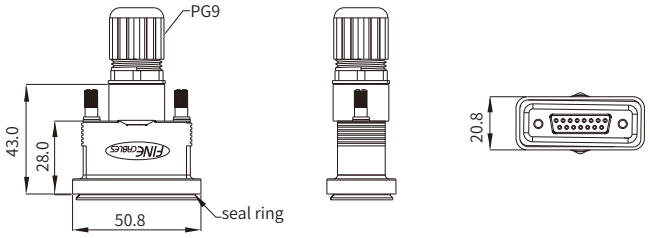
| Pins | Male |
|---|---|
| 7W2 | DBW7W2MANB-A |

## Recommended Panel cut



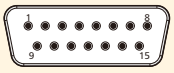
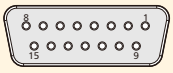
# Industrial I/O

## D-Sub Field Wirable Assembly




RoHS

## Specifications

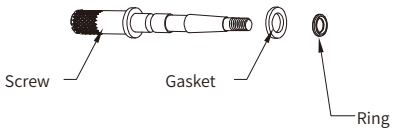
| Contacts | 15 Male | 15 Female |
|---|---|---|
| Pin layout |  |  |
| Ambient temperature | -25°C~+85°C | |
| Connector insert | PBT+GF | |
| Connector contacts | Brass gold plated | |
| Coupling nut/screw | Brass nickel plated | |
| Seal / O-ring | FKM | |
| Insulation resistance | ⩾1000MΩ | |
| Contact resistance | ⩽10mΩ | |
| Shielding | Unavailable | |
| IP rating | IP67 in locked condition | |
| Rated current | 5A | |
| Rated voltage | 300V AC/DC | |

## Part Number

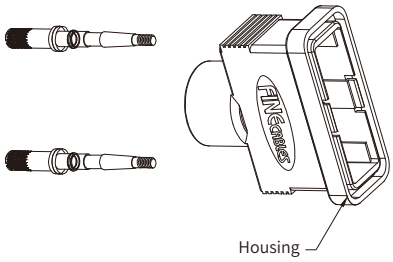
| Pins | Male | Female |
|---|---|---|
| 15 | DBW15MSNS-A | DBW15FSNS-A |

## Assembly Instruction

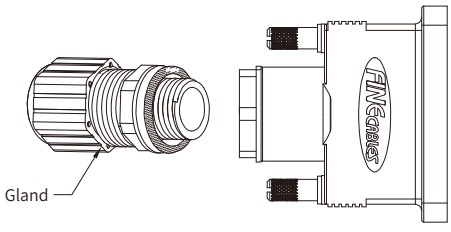
Step 1 Insert gasket & ring through the screw



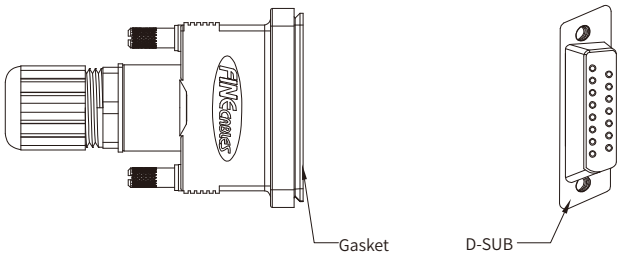

Step 2 Assembly screw into the black plastic housing




Step 3 Lock the sealing nut

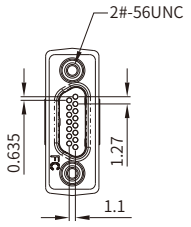


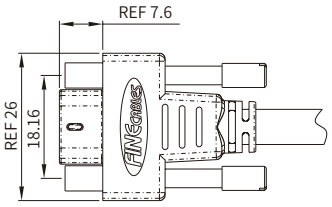

Step 4 Insert gasket onto the housing



# Industrial I/O

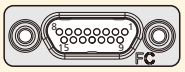
## Micro D-Sub Molded Cable




RoHS

## Specifications

| Contacts | 15 |
|---|---|
| Pin layout(Female) |  |
| Ambient temperature | -25°C~+85°C(flexible installation),-40°C~+85°C(fixed installation) |
| Connector insert | PBT |
| Connector contacts | Brass gold plated |
| Coupling nut/screw | Brass nickel plated |
| Insulation resistance | ⩾1000MΩ |
| Contact resistance | ⩽5mΩ |
| Shielding | Available |
| Rated current | 1A |
| Rated voltage | 350V AC/DC |
| Wire gauge | 0.08~0.15mm$^2$(AWG26~28) |

## Part Number

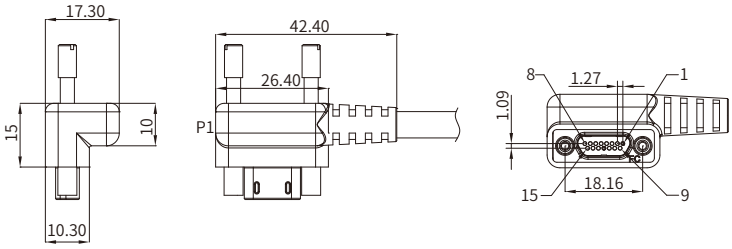
| Pins | Cable length | Female | |
|---|---|---|---|
| | | PVC | PUR |
| 15 | 1m | DBW15FS-10CB15 | DBW15FS-10RB15 |
| | 3m | DBW15FS-30CB15 | DBW15FS-30RB15 |
| | 5m | DBW15FS-50CB15 | DBW15FS-50RB15 |

## Default wire colors

| Pin No. | |
|---|---|
| Pin 1 | BK |
| Pin 2 | BN |
| Pin 3 | RD |
| Pin 4 | OR |
| Pin 5 | YE |
| Pin 6 | GN |
| Pin 7 | BU |
| Pin 8 | VT |
| Pin 9 | GY |
| Pin 10 | WH |
| Pin 11 | PK |
| Pin 12 | LT GN |
| Pin 13 | LT BU |
| Pin 14 | BK/WH |
| Pin 15 | BK/RD |
| Shell | Braid |

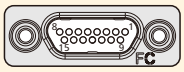
# Industrial I/O

## Micro D-Sub Molded Cable, Right angled




RoHS

## Specifications

| Contacts | 15 |
|---|---|
| Pin layout(Female) |  |
| Ambient temperature | -25°C~+85°C(flexible installation),-40°C~+85°C(fixed installation) |
| Connector insert | PBT |
| Connector contacts | Brass gold plated |
| Coupling nut/screw | Brass nickel plated |
| Insulation resistance | ⩾1000MΩ |
| Contact resistance | ⩽5mΩ |
| Shielding | Available |
| Rated current | 1A |
| Rated voltage | 350V AC/DC |
| Wire gauge | 0.08~0.15mm$^2$(AWG26~28) |

## Part Number

| Pins | Cable length | Female | |
|---|---|---|---|
| | | PVC | PUR |
| 15 | 1m | DBW15FA-10CB15 | DBW15FA-10RB15 |
| | 3m | DBW15FA-30CB15 | DBW15FA-30RB15 |
| | 5m | DBW15FA-50CB15 | DBW15FA-50RB15 |

## Default wire colors

| Pin No. | |
|---|---|
| Pin 1 | BK |
| Pin 2 | BN |
| Pin 3 | RD |
| Pin 4 | OR |
| Pin 5 | YE |
| Pin 6 | GN |
| Pin 7 | BU |
| Pin 8 | VT |
| Pin 9 | GY |
| Pin 10 | WH |
| Pin 11 | PK |
| Pin 12 | LT GN |
| Pin 13 | LT BU |
| Pin 14 | BK/WH |
| Pin 15 | BK/RD |
| Shell | Braid |

## How to Order Part Number

### Optical Fiber Series

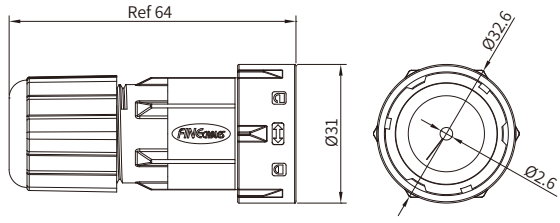
FB - W F SC P Q - 01

- FB — SERIES: FB=Optical Fiber
- W — WATERPROOF: W=Waterproof
- F — TYPE: F=Female, M=Male
- SC — CODING: SC=SC Type, LC=LC Type
- P — ASSEMBLE STYLE: P=Panel type, A=Assemble type
- Q — LOCKING TYPE: Q=Quick-lock
- 01 — CABLE OD: 01=2.0~2.4mm, 02=2.5~2.8mm, 03=4.5~6.8mm, .....

## Optical Fiber Assembly SC Type

- Connector series: SC / LC
- Gender: Jack
- Mating Style: 3 Points Lock Bayonet
- Mounting type: Rear fastened
- Part No.: FB-WMSCAQ-XX (for SC)
  FB-WMLCAQ-XX (for LC)

XX for cable OD rang




RoHS

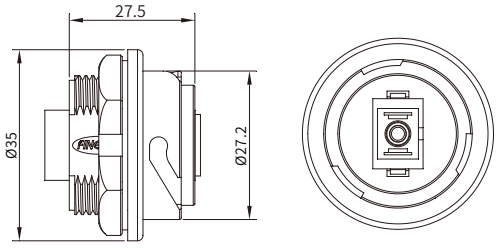
## General information

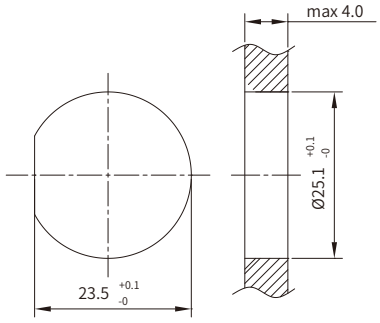
| | |
|---|---|
| Standard: | IEC 61754 |
| Ambient temperature: | -40°C ~ +105°C |
| Connector nut/screw: | PA+GF |
| Connector body: | PA66 |
| Seal / O-ring: | Silicone |

| | |
|---|---|
| Insertion Loss: | ⩾0.3db |
| Return Loss: | ⩽30db |
| Mechanical durability: | >500 |
| Operation wavelength: | 1310nm~1550nm~850nm |
| IP rating: | IP67 In locked condition |

## Optical Fiber Panel Type SC Adapter Connector

- Connector series: SC
- Gender: Jack
- Mating Style: 3 Points Lock Bayonet
- Mounting type: Rear fastened
- Part No.: FB-WMSCPQ




RoHS

Recommended Panel Cut-Out

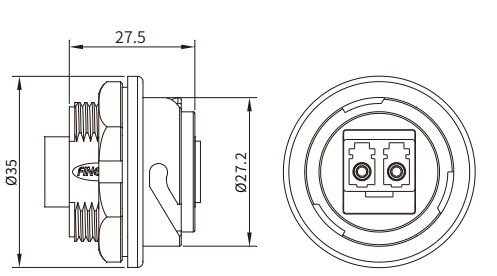
### General information

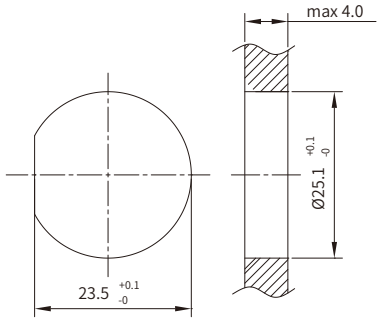
| | |
|---|---|
| Standard: | IEC 61754 |
| Ambient temperature: | -40°C ~ +105°C |
| Connector nut/screw: | PA+GF |
| Connector body: | PA+GF |
| Seal / O-ring: | Silicone |

| | |
|---|---|
| Insertion Loss: | ⩾0.3db |
| Return Loss: | ⩽30db |
| Mechanical durability: | >500 |
| Operation wavelength: | 1310nm~1550nm~850nm |
| IP rating: | IP67 In locked condition |

## M8 Protection Cap for Female Molded Cable Connector

- Connector series: LC
- Gender: Jack
- Mating Style: 3 Points Lock Bayonet
- Mounting type: Rear fastened
- Part No.: FB-WMLCPQ




RoHS

Recommended Panel Cut-Out

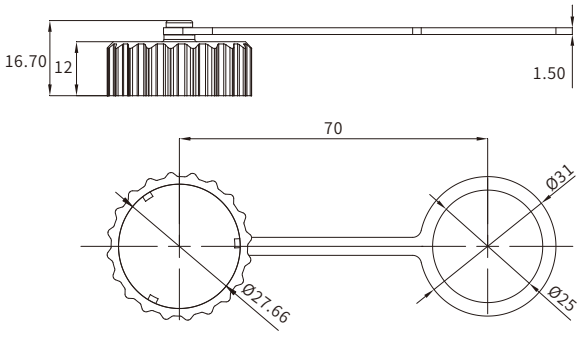
### General information

| | |
|---|---|
| Standard: | IEC 61754 |
| Ambient temperature: | -40°C ~ +105°C |
| Connector nut/screw: | PA+GF |
| Connector body: | PA+GF |
| Seal / O-ring: | Silicone |

| | |
|---|---|
| Insertion Loss: | ⩾0.3db |
| Return Loss: | ⩽30db |
| Mechanical durability: | >500 |
| Operation wavelength: | 1310nm~1550nm~850nm |
| IP rating: | IP67 In locked condition |

## Optical Fiber Protection Cap for SC/LC Adaptor Connector

- Connector series: M12
- Gender: for SC/LC Adaptor
- Locking type: 3 Points Lock Bayonet
- Part No.: PCNFB-1




RoHS

## General information

| | | | |
|---|---|---|---|
| Material: | PA+GF | Color: | Black |
| O-ring: | FKM | Degree of protection: | IP67 In locked condition |

# ISO-BUS 11783
## connectors

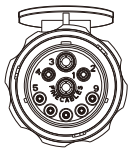
## ISO-BUS 11783 connectors

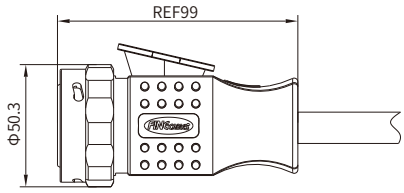
The ISO-BUS standard specifies a serial data network for control and communications on forestry or agricultural tractors and implements. It consists of several factors; general standards for mobile data communication, physical layer, data link layer, network layer, network management, virtual terminal, messaging application implementation layer, power train messages, tractor ECU, task controller and management information data interchange, mobile data element dictionary diagnostic, and file server management.

- Solid-coated with plastic injection technique
- Leakage proof rated IP65
- Provides a protecting stage on plug which keeps ISO BUS socket on the machinery CLEAN.
- Stable mechanical properties against an over -tensile strength, break impact, chemicals corrosion, or harsh environment.
- Reliable electrical characteristics against vibration, condensation.
- Plug, socket and flange socket available for your option.
- Customized cable length and ready to use.

# ISO-BUS

## ISO-BUS Plug Molded Cable, Quick-lock Type






RoHS

## Specifications

| | |
|---|---|
| Contacts | 9 |
| Pin layout | |
| Standard | ISO 11783-2 |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) |
| Insert | PA + GF |
| Holder | PA + GF |
| Connector contacts | Pin1,2,3&4 Brass with nickel plated / Pin5,6,7,8&9 Brass with gold plated |
| Color | Blue |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽20mΩ |
| Overmolding | TPU |
| Sealing | Silicon |
| Mating Durability | 100 |
| Corrosion Resistance | 48H salt spray test |
| IP rating | IP 65 in locked condition |
| Rated current | 40A(1&3) / 18A(2&4) / 7A(5~9) |
| Rated voltage | 60V AC/DC |
| Cable Specification | ISOBUS cable: 6.0mm2 *2C(red,black)+2.5mm2*2C(red,black)+0.5mm2 *2P(red&black,yellow&green impedance:75+/-5 Ohms 1MHz), black PVC jacket OD15.0mm |

## Part Number

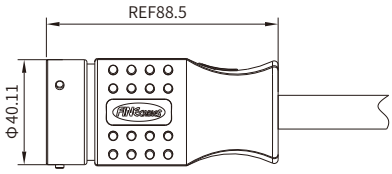
| Pins | Cable length | Plug |
|---|---|---|
| 9 | 1m | ISO-BUS-PM-10 |
| | 3m | ISO-BUS-PM-30 |
| | 5m | ISO-BUS-PM-50 |

## Default wire colors

| Pin No. | |
|---|---|
| Pin 1 | BK |
| Pin 2 | BK |
| Pin 3 | RD |
| Pin 4 | RD |
| Pin 5 | RD |
| Pin 6 | RD |
| Pin 7 | BK |
| Pin 8 | YE |
| Pin 9 | GN |

# ISO-BUS

## ISO-BUS Receptacle Molded Cable, Straight, Quick-lock Type




RoHS

## Specifications

| | |
|---|---|
| Contacts | 9 |
| Pin layout | |
| Standard | ISO 11783-2 |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) |
| Insert | PBT |
| Connector contacts | Pin1,2,3&4 Brass with nickel plated / Pin5,6,7,8&9 Brass with gold plated |
| Color | Blue |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽20mΩ |
| Overmolding | TPU |
| Sealing | Silicon |
| Mating Durability | 100 |
| Corrosion Resistance | 48H salt spray test |
| IP rating | IP 65 in locked condition |
| Rated current | 40A(1&3) / 18A(2&4) / 7A(5~9) |
| Rated voltage | 60V AC/DC |
| Cable Specification | ISOBUS cable: 6.0mm2 *2C(red,black)+2.5mm2*2C(red,black)+0.5mm2 *2P(red&black,yellow&green impedance:75+/-5 Ohms 1MHz), black PVC jacket OD15.0mm |

## Part Number

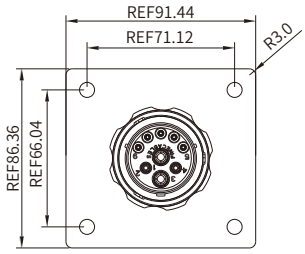
| Pins | Cable length | Plug |
|---|---|---|
| 9 | 1m | ISO-BUS-RM-10 |
| | 3m | ISO-BUS-RM-30 |
| | 5m | ISO-BUS-RM-50 |

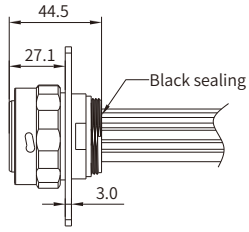
## Default wire colors

| Pin No. | |
|---|---|
| Pin 1 | BK |
| Pin 2 | BK |
| Pin 3 | RD |
| Pin 4 | RD |
| Pin 5 | RD |
| Pin 6 | RD |
| Pin 7 | BK |
| Pin 8 | YE |
| Pin 9 | GN |

# ISO-BUS

## ISO-BUS Plug Panel Mount, Quick-lock Type




RoHS

## Specifications

| | |
|---|---|
| Contacts | 9 |
| Pin layout | |
| Standard | ISO 11783-2 |
| Ambient temperature | -15°C~+85°C (flexible installation), -30°C~+85°C (fixed installation) |
| Customized temperature | -25°C ~ +85°C (flexible installation), -40°C ~ +85°C (fixed installation) |
| Insert | PA + GF |
| Connector contacts | Pin1,2,3&4 Brass with nickel plated / Pin5,6,7,8&9 Brass with gold plated |
| Insulation resistance | ⩾100MΩ |
| Contact resistance | ⩽20mΩ |
| Overmolding | Stainless steel |
| Sealing | Silicon |
| Mating Durability | 100 |
| Corrosion Resistance | 48H salt spray test |
| IP rating | IP 65 in locked condition |
| Rated current | 40A(1&3) / 18A(2&4) / 7A(5~9) |
| Rated voltage | 60V AC/DC |
| Cable Specification | UL1015 6.0mm2 wire(BC) / UL1015 2.5mm2 wire(BC) / UL1015 0.5mm2 wire(BC) |

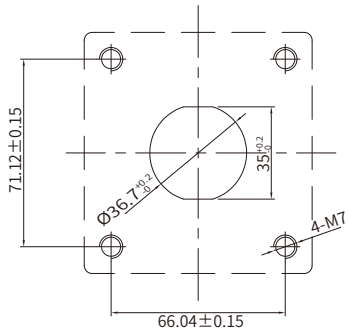
## Part Number

| Pins | Cable length | Plug |
|---|---|---|
| 9 | 0.1m | ISO-BUS-PP-01 |
| | 0.3m | ISO-BUS-PP-03 |

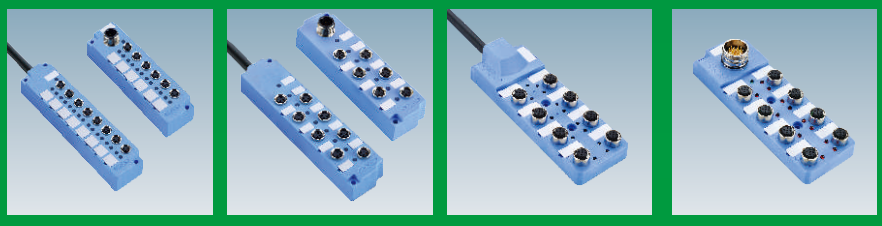
## Default wire colors

| Pin No. | |
|---|---|
| Pin 1 | BK |
| Pin 2 | BK |
| Pin 3 | RD |
| Pin 4/5 | RD |
| Pin 6 | RD |
| Pin 7 | RD |
| Pin 8 | BK |
| Pin 9 | YE |
| | GN |

## Recommended Panel cut



# Junction Boxes



## Junction Boxes

Our sensor/actuator junction boxes provide more extension possibilities to industrial field control systems. Our M5/M8/M12 series junction boxes are available in 4, 6, or 8 port setups with either 4 or 5 poles per port. The master cable can be configured via a 7/8", M23 connector, or a pre-molded cable on the junction box.

- IP 67 rated protection degree.
- 4, 6, 8 ports of M5/M8/M12 available
- Marking tags/holder at each port allows for connecting identification.
- LED display for easy power and signal status indication.
- Offer customized cable solution.
- Robust structure design especially for tough surroundings

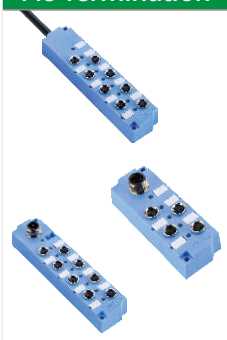
# Junction Boxes

## Quick Search Table

### M5 Termination

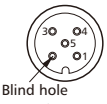
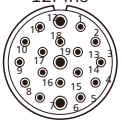
| | |
|---|---|
| Locking type | Fix screw |
| Rated Current | 1A per signal, 3A total |
| Rated voltage with/without LED | 10~30V/120V |
| Pin layout | M5(Female) 04pins M12(Male) 12pins |
| Junction Box, 8 Ports, M5 Termination, Molded Cable | 593 |
| Junction Box, 8 Ports, M5 Termination, with M12 Connector | 594 |
| Junction Box, 6 Ports, M5 Termination, Molded Cable | 595 |
| Junction Box, 6 Ports, M5 Termination, with M12 Connector | 596 |
| Junction Box, 4 Ports, M5 Termination, Molded Cable | 597 |
| Junction Box, 4 Ports, M5 Termination, with M12 Connector | 598 |

### M8 Termination



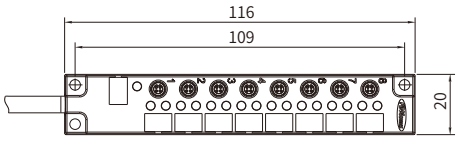
| | |
|---|---|
| Locking type | Fix screw |
| Rated Current | 1A per signal, 3A total |
| Rated voltage with/without LED | 10~30V/120V |
| Pin layout | M8(Female) 03pins M12(Male) 08pins M12(Male) 12pins |
| Junction Box, 8 Ports, M8 Termination, Molded Cable | 599 |
| Junction Box, 8 Ports, M8 Termination, with M12 Connector | 600 |
| Junction Box, 6 Ports, M8 Termination, Molded Cable | 601 |
| Junction Box, 6 Ports, M8 Termination, with M12 Connector | 602 |
| Junction Box, 4 Ports, M8 Termination, Molded Cable | 603 |
| Junction Box, 4 Ports, M8 Termination, with M12 Connector | 604 |

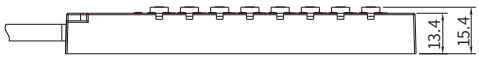
### M12 Termination

| | |
|---|---|
| Locking type | Fix screw |
| Rated Current | 1A/2A per signal, 3A/6A total |
| Rated voltage with/without LED | 10~30V/120V |
| Pin layout |  Blind hole M12(Female) 04Pins 7/8" (Male) 05Pins M23 Male 12Pins M12(Female) 05Pins 7/8" (Female) 05Pins  M23 Male 19Pins |
| Junction Box 8 ports, M12 Termination, Pluggable screw connection, Pluggable Temminal Blocks Assembly Connector | 605 |
| Junction Box 8 ports, M12 Termination, Pluggable screw connection, Pluggable Temminal Blocks Assembly With Cable | 606 |
| Junction Box, 8 Ports, M12 Termination, Molded Cable | 607 |
| Junction Box, 8 Ports, M12 Termination, with M23 Connector | 608 |
| Junction Box, 8 Ports, M12 Termination, with Mini-Change 7/8" Connector | 609 |
| Junction Box, 6 Ports, M12 Termination, Molded Cable | 610 |
| Junction Box, 6 Ports, M12 Termination, with M23 Connector | 611 |
| Junction Box, 4 Ports, M12 Termination, Molded Cable | 612 |
| Junction Box, 6 Ports, M12 Termination, with M23 Connector | 613 |
| Junction Box, 6Ports, M12 Termination, Molded Cable | 614 |

# Junction Boxes

## Junction Box, 8 Ports, M5 Termination, Molded Cable




RoHS

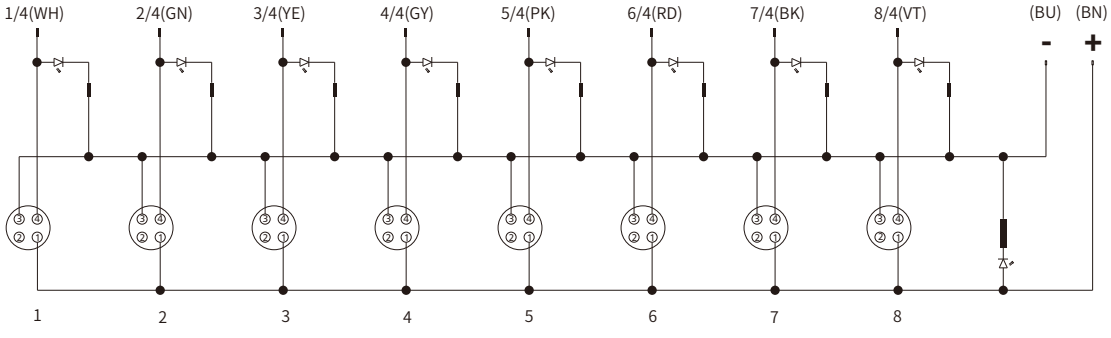
## Specifications

| Contacts | M5 Pin4 (Female) |
|---|---|
| Pin layout | |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) |
| Connector insert | TPU |
| Connector contacts | Brass with gold plated |
| Material of body | PBT |
| Coupling nut/screw | Brass with nickel plated |
| Body color | Blue |
| Seal | FKM |
| Contact resistance | ⩽ 3mΩ |
| Rated voltage with/without LED | 10~30V/120V |
| Rated current | 1A per signal,3A total |
| LED color | Optional |
| IP rating | IP 67 in locked condition |
| Coding type | A-Coding |

## Part Number

| Pins | Cable length | With LED | | Without LED | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 4 | 1m | JB8M5F04L-10CB | JB8M5F04L-10RB | JB8M5F04-10CB | JB8M5F04-10RB |
| | 3m | JB8M5F04L-30CB | JB8M5F04L-30RB | JB8M5F04-30CB | JB8M5F04-30RB |
| | 5m | JB8M5F04L-50CB | JB8M5F04L-50RB | JB8M5F04-50CB | JB8M5F04-50RB |

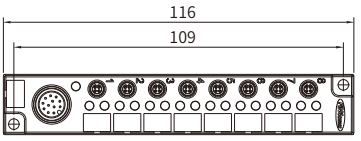
## Circuit diagram

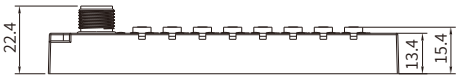



LED indicating: PNP
other circuit diagram (NPN) can be customized

# Junction Boxes

## Junction Box, 8 Ports, M5 Termination, with M12 Connector




RoHS

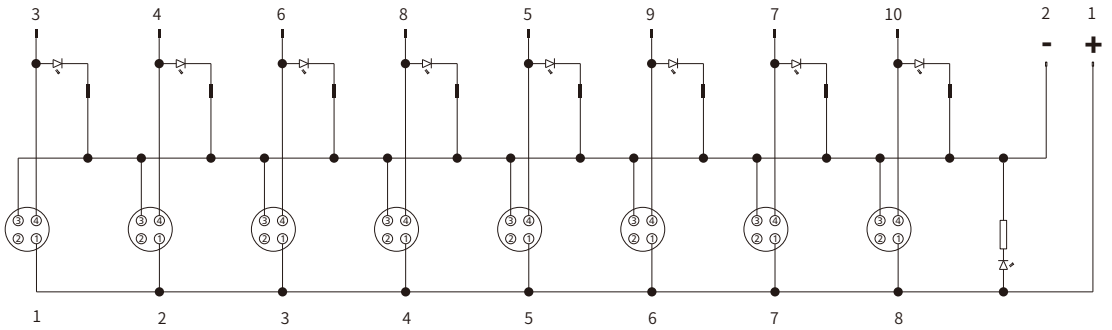
## Specifications

| Contacts | M5 Pin4 (Female) | M12 Pin12 (Male) |
|---|---|---|
| Pin layout | | |
| Ambient temperature | -25°C~+85°C | |
| Connector insert | TPU | |
| Connector contacts | Brass with gold plated | |
| Material of body | PBT | |
| Coupling nut/screw | Brass with nickel plated | |
| Body color | Blue | |
| Seal | FKM | |
| Contact resistance | ⩽ 3mΩ | |
| Rated voltage with/without LED | 10~30V/120V | |
| Rated current | 1A per signal,3A total | |
| LED color | Optional | |
| IP rating | IP 67 in locked condition | |
| Coding type | A-Coding | |

## Part Number

| Pins | With LED | Without LED |
|---|---|---|
| 4-12 | JB8M5F04L-M12M12 | JB8M5F04-M12M12 |

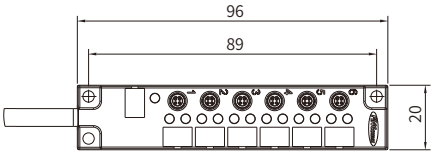
## Circuit diagram

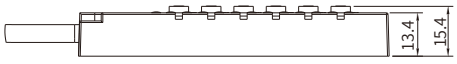



LED indicating: PNP
other circuit diagram (NPN) can be customized

# Junction Boxes

## Junction Box, 6 Ports, M5 Termination, Molded Cable




RoHS

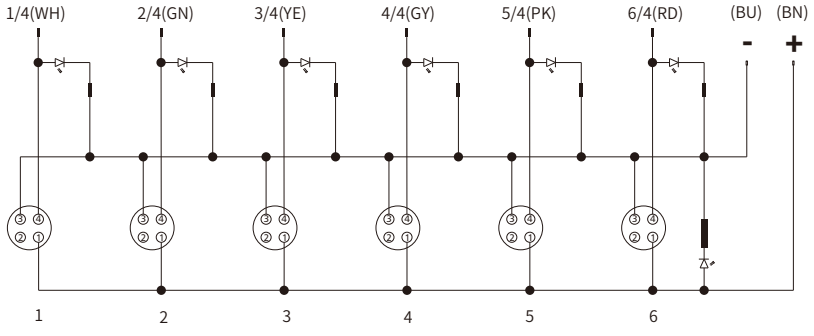
## Specifications

| Contacts | M5 Pin4 (Female) |
|---|---|
| Pin layout | |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) |
| Connector insert | TPU |
| Connector contacts | Brass with gold plated |
| Material of body | PBT |
| Coupling nut/screw | Brass with nickel plated |
| Body color | Blue |
| Seal | FKM |
| Contact resistance | ⩽ 3mΩ |
| Rated voltage with/without LED | 10~30V/120V |
| Rated current | 1A per signal,3A total |
| LED color | Optional |
| IP rating | IP 67 in locked condition |
| Coding type | A-Coding |

## Part Number

| Pins | Cable length | With LED | | Without LED | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 4 | 1m | JB6M5F04L-10CB | JB6M5F04L-10RB | JB6M5F04-10CB | JB6M5F04-10RB |
| | 3m | JB6M5F04L-30CB | JB6M5F04L-30RB | JB6M5F04-30CB | JB6M5F04-30RB |
| | 5m | JB6M5F04L-50CB | JB6M5F04L-50RB | JB6M5F04-50CB | JB6M5F04-50RB |

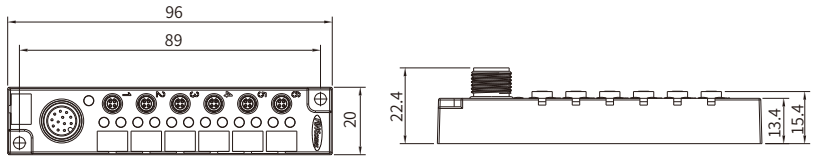
## Circuit diagram




LED indicating: PNP
other circuit diagram (NPN) can be customized

# Junction Boxes

## Junction Box, 6 Ports, M5 Termination, with M12 Connector




RoHS

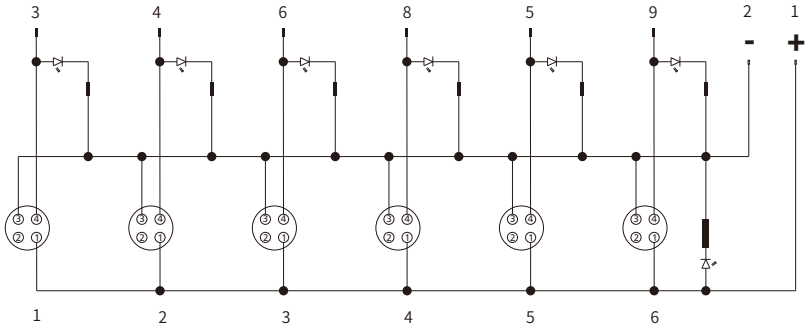
## Specifications

| Contacts | M5 Pin4 (Female) | M12 Pin12 (Male) |
|---|---|---|
| Pin layout | | |
| Ambient temperature | -25°C~+85°C | |
| Connector insert | TPU | |
| Connector contacts | Brass with gold plated | |
| Material of body | PBT | |
| Coupling nut/screw | Brass with nickel plated | |
| Body color | Blue | |
| Seal | FKM | |
| Contact resistance | ⩽ 3mΩ | |
| Rated voltage with/without LED | 10~30V/120V | |
| Rated current | 1A per signal,3A total | |
| LED color | Optional | |
| IP rating | IP 67 in locked condition | |
| Coding type | A-Coding | |

## Part Number

| Pins | With LED | Without LED |
|---|---|---|
| 4-12 | JB6M5F04L-M12M12 | JB6M5F04-M12M12 |

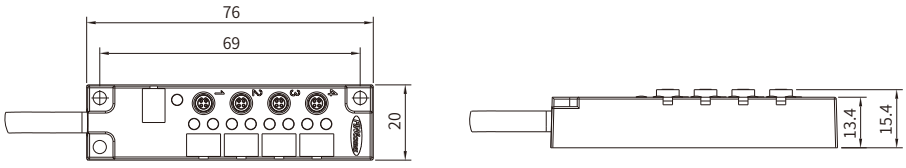
## Circuit diagram




LED indicating: PNP
other circuit diagram (NPN) can be customized

# Junction Boxes

## Junction Box, 4 Ports, M5 Termination, Molded Cable




RoHS

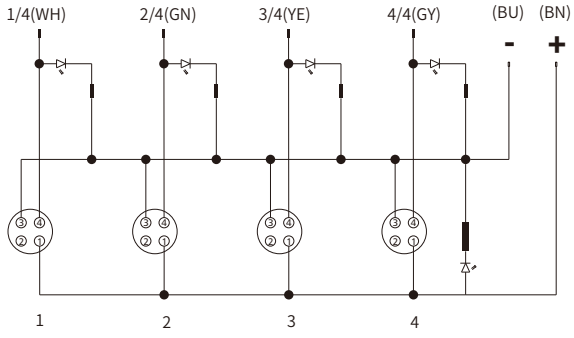
## ■ Specifications

| Contacts | M5 Pin4 (Female) |
|---|---|
| Pin layout | |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) |
| Connector insert | TPU |
| Connector contacts | Brass with gold plated |
| Material of body | PBT |
| Coupling nut/screw | Brass with nickel plated |
| Body color | Blue |
| Seal | FKM |
| Contact resistance | ⩽ 3mΩ |
| Rated voltage with/without LED | 10~30V/120V |
| Rated current | 1A per signal,3A total |
| LED color | Optional |
| IP rating | IP 67 in locked condition |
| Coding type | A-Coding |

## ■ Part Number

| Pins | Cable length | With LED | | Without LED | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 4 | 1m | JB4M5F04L-10CB | JB4M5F04L-10RB | JB4M5F04-10CB | JB4M5F04-10RB |
| | 3m | JB4M5F04L-30CB | JB4M5F04L-30RB | JB4M5F04-30CB | JB4M5F04-30RB |
| | 5m | JB4M5F04L-50CB | JB4M5F04L-50RB | JB4M5F04-50CB | JB4M5F04-50RB |

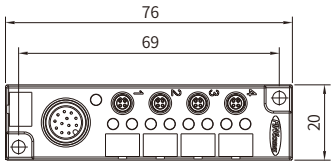
## ■ Circuit diagram

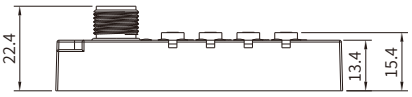



LED indicating: PNP
other circuit diagram (NPN) can be customized

# Junction Boxes

## Junction Box, 4 Ports, M5 Termination, with M12 Connector




RoHS

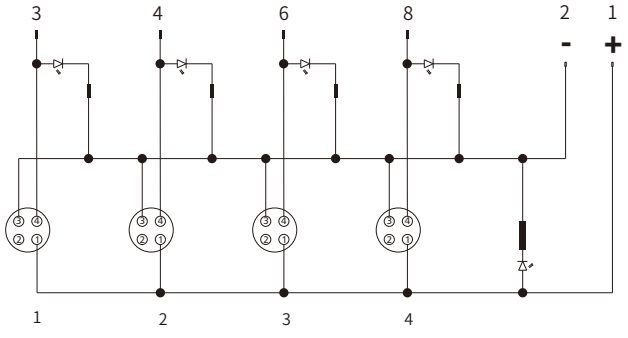
## Specifications

| Contacts | M5 Pin4 (Female) | M12 Pin12 (Male) |
|---|---|---|
| Pin layout | | |
| Ambient temperature | -25°C~+85°C | |
| Connector insert | TPU | |
| Connector contacts | Brass with gold plated | |
| Material of body | PBT | |
| Coupling nut/screw | Brass with nickel plated | |
| Body color | Blue | |
| Seal | FKM | |
| Contact resistance | ⩽ 3mΩ | |
| Rated voltage with/without LED | 10~30V/120V | |
| Rated current | 1A per signal,3A total | |
| LED color | Optional | |
| IP rating | IP 67 in locked condition | |
| Coding type | A-Coding | |

## Part Number

| Pins | With LED | Without LED |
|---|---|---|
| 4-12 | JB4M5F04L-M12M12 | JB4M5F04-M12M12 |

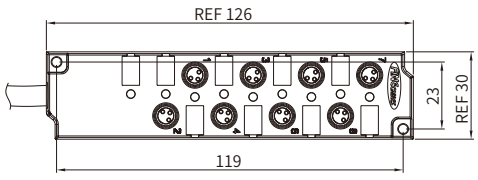
## Circuit diagram




LED indicating: PNP
other circuit diagram (NPN) can be customized

# Junction Boxes

## Junction Box, 8 Ports, M8 Termination, Molded Cable



RoHS

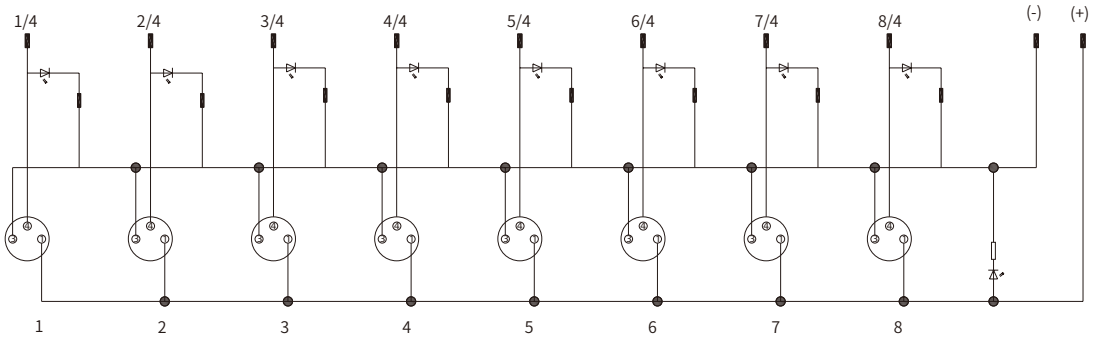
## Specifications

| Contacts | M8 Pin3 (Female) |
|---|---|
| Pin layout | |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) |
| Connector insert | TPU |
| Connector contacts | Brass with gold plated |
| Material of body | PBT |
| Coupling nut/screw | Brass with nickel plated |
| Body color | Blue |
| Seal | FKM |
| Contact resistance | ⩽ 3mΩ |
| Rated voltage with/without LED | 10~30V/120V |
| Rated current | 1A per signal,3A total |
| LED color | Optional |
| IP rating | IP 67 in locked condition |
| Coding type | A-Coding |

## Part Number

| Pins | Cable length | With LED | | Without LED | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 3 | 1m | JB8M8F03L-10CB | JB8M8F03L-10RB | JB8M8F03-10CB | JB8M8F03-10RB |
| | 3m | JB8M8F03L-30CB | JB8M8F03L-30RB | JB8M8F03-30CB | JB8M8F03-30RB |
| | 5m | JB8M8F03L-50CB | JB8M8F03L-50RB | JB8M8F03-50CB | JB8M8F03-50RB |

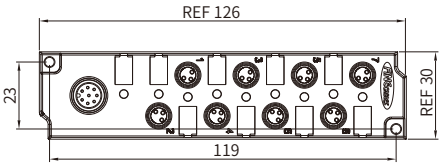
## Circuit diagram




LED indicating: PNP
other circuit diagram (NPN) can be customized

# Junction Boxes

## Junction Box, 8 Ports, M8 Termination, with M12 Connector



RoHS

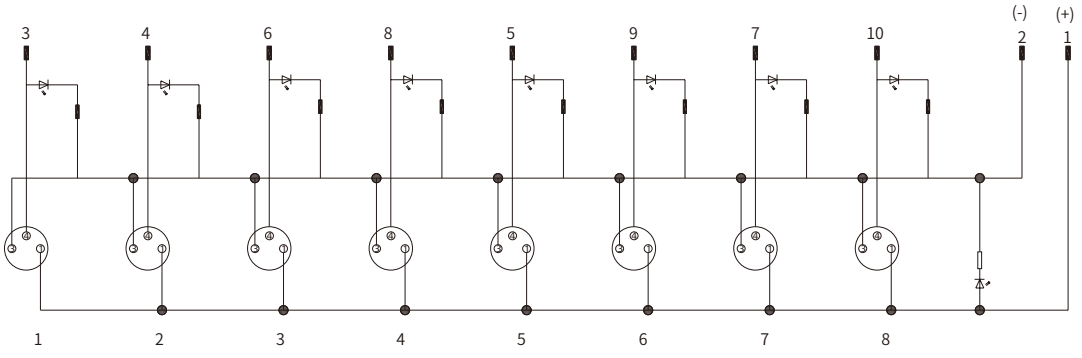
## Specifications

| Contacts | M8 Pin3 (Female) | M12 Pin12 (Male) |
|---|---|---|
| Pin layout | | |
| Ambient temperature | -25°C~+85°C | |
| Connector insert | TPU | |
| Connector contacts | Brass with gold plated | |
| Material of body | PBT | |
| Coupling nut/screw | Brass with nickel plated | |
| Body color | Blue | |
| Seal | FKM | |
| Contact resistance | ⩽ 3mΩ | |
| Rated voltage with/without LED | 10~30V/120V | |
| Rated current | 1A per signal,3A total | |
| LED color | Optional | |
| IP rating | IP 67 in locked condition | |
| Coding type | A-Coding | |

## Part Number

| Pins | With LED | Without LED |
|---|---|---|
| 3-12 | JB8M8F03L-M12M12 | JB8M8F03-M12M12 |

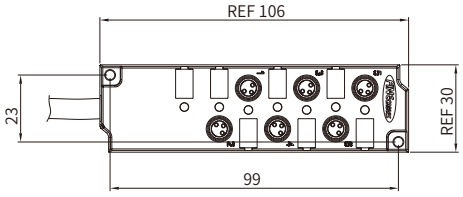
## Circuit diagram




LED indicating: PNP
other circuit diagram (NPN) can be customized

# Junction Boxes

## Junction Box, 6 Ports, M8 Termination, Molded Cable



RoHS

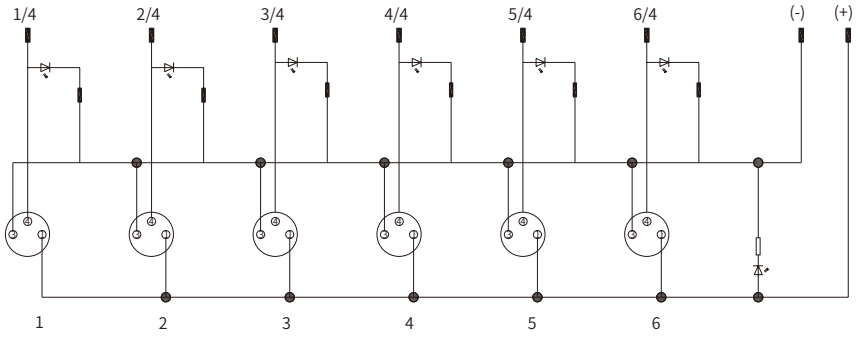
## Specifications

| Contacts | M8 Pin3 (Female) |
|---|---|
| Pin layout | |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) |
| Connector insert | TPU |
| Connector contacts | Brass with gold plated |
| Material of body | PBT |
| Coupling nut/screw | Brass with nickel plated |
| Body color | Blue |
| Seal | FKM |
| Contact resistance | ⩽ 3mΩ |
| Rated voltage with/without LED | 10~30V/120V |
| Rated current | 1A per signal,3A total |
| LED color | Optional |
| IP rating | IP 67 in locked condition |
| Coding type | A-Coding |

## Part Number

| Pins | Cable length | With LED | | Without LED | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 3 | 1m | JB6M8F03L-10CB | JB6M8F03L-10RB | JB6M8F03-10CB | JB6M8F03-10RB |
| | 3m | JB6M8F03L-30CB | JB6M8F03L-30RB | JB6M8F03-30CB | JB6M8F03-30RB |
| | 5m | JB6M8F03L-50CB | JB6M8F03L-50RB | JB6M8F03-50CB | JB6M8F03-50RB |

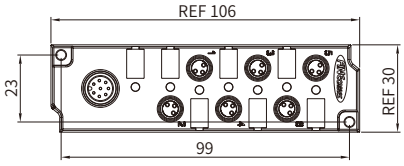
## Circuit diagram




LED indicating: PNP
other circuit diagram (NPN) can be customized

# Junction Boxes

## Junction Box, 6 Ports, M8 Termination, with M12 Connector



**RoHS**

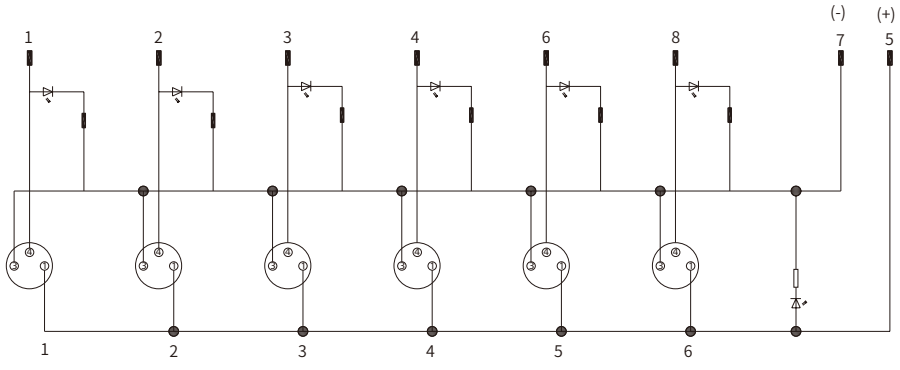
## Specifications

| Contacts | M8 Pin3 (Female) | M12 Pin12 (Male) |
|---|---|---|
| Pin layout | | |
| Ambient temperature | -25°C~+85°C | |
| Connector insert | TPU | |
| Connector contacts | Brass with gold plated | |
| Material of body | PBT | |
| Coupling nut/screw | Brass with nickel plated | |
| Body color | Blue | |
| Seal | FKM | |
| Contact resistance | ⩽ 3mΩ | |
| Rated voltage with/without LED | 10~30V/120V | |
| Rated current | 1A per signal,3A total | |
| LED color | Optional | |
| IP rating | IP 67 in locked condition | |
| Coding type | A-Coding | |

## Part Number

| Pins | With LED | Without LED |
|---|---|---|
| 3-12 | JB6M8F03L-M12M12 | JB6M8F03-M12M12 |

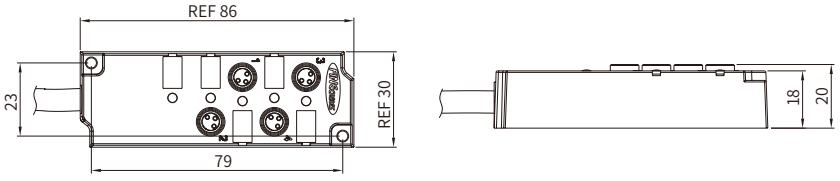
## Circuit diagram




LED indicating: PNP
other circuit diagram (NPN) can be customized

# Junction Boxes

## Junction Box, 4 Ports, M8 Termination, Molded Cable




RoHS

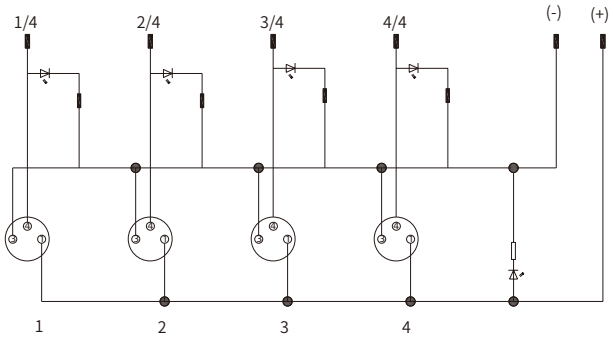
## Specifications

| Contacts | M8 Pin3 (Female) |
|---|---|
| Pin layout | |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) |
| Connector insert | TPU |
| Connector contacts | Brass with gold plated |
| Material of body | PBT |
| Coupling nut/screw | Brass with nickel plated |
| Body color | Blue |
| Seal | FKM |
| Contact resistance | ⩽ 3mΩ |
| Rated voltage with/without LED | 10~30V/120V |
| Rated current | 1A per signal,3A total |
| LED color | Optional |
| IP rating | IP 67 in locked condition |
| Coding type | A-Coding |

## Part Number

| Pins | Cable length | With LED | | Without LED | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 3 | 1m | JB4M8F03L-10CB | JB4M8F03L-10RB | JB4M8F03-10CB | JB4M8F03-10RB |
| | 3m | JB4M8F03L-30CB | JB4M8F03L-30RB | JB4M8F03-30CB | JB4M8F03-30RB |
| | 5m | JB4M8F03L-50CB | JB4M8F03L-50RB | JB4M8F03-50CB | JB4M8F03-50RB |

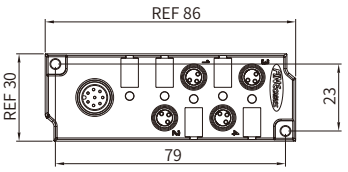
## Circuit diagram




LED indicating: PNP
other circuit diagram (NPN) can be customized

# Junction Boxes

## Junction Box, 4 Ports, M8 Termination, with M12 Connector



**RoHS**

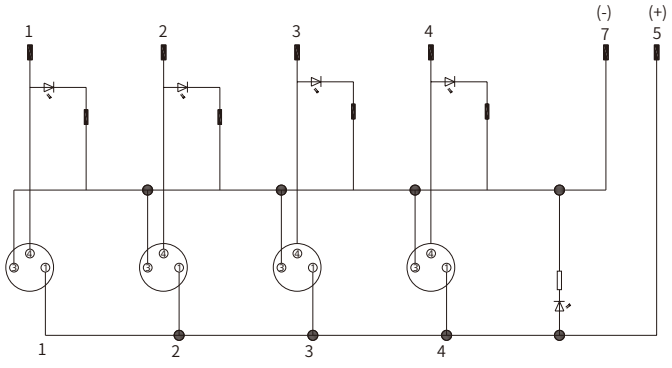
## Specifications

| Contacts | M8 Pin3 (Female) | M12 Pin12 (Male) |
|---|---|---|
| Pin layout | | |
| Ambient temperature | -25°C~+85°C | |
| Connector insert | TPU | |
| Connector contacts | Brass with gold plated | |
| Material of body | PBT | |
| Coupling nut/screw | Brass with nickel plated | |
| Body color | Blue | |
| Seal | FKM | |
| Contact resistance | ⩽5mΩ | |
| Rated voltage with/without LED | 10~30V/120V | |
| Rated current | 2A per signal,6A total | |
| LED color | Optional | |
| IP rating | IP 67 in locked condition | |
| Coding type | A-Coding | |

## Part Number

| Pins | With LED | Without LED |
|---|---|---|
| 3-12 | JB4M8F03L-M12M12 | JB4M8F03-M12M12 |

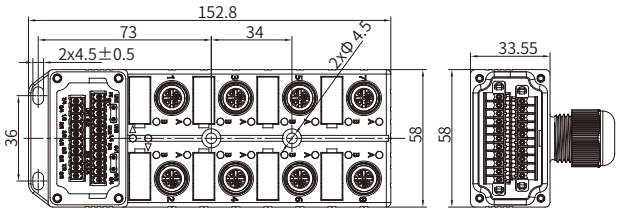
## Circuit diagram




LED indicating: PNP
other circuit diagram (NPN) can be customized

# Junction Box

## Junction Box 8 ports, M12 Termination, Pluggable screw connection, Pluggable Temminal Blocks Assembly Connector




CE RoHS

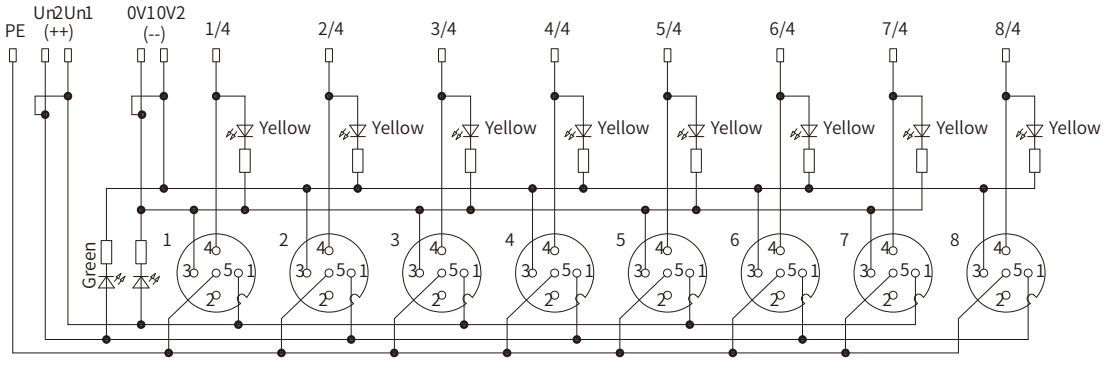
## Specifications

| Contacts | 4 | 5 |
|---|---|---|
| Pinlayout | | |
| Standard | IEC 61076-2-101 | |
| Ambient temperature | -40 °C ~ + 85 °C(fixed installation); -25 °C ~ + 85 °C(flexible installation) | |
| Connector insert | TPU | |
| Connector contacts | Brass with gold plated | |
| Connector overmold | TPU | |
| Coupling nut | Zinc alloy with nickel plated | |
| Insulation resistance | ⩾ 5 MΩ | |
| Contact resistance | ⩽ 5 mΩ | |
| Shielding | Unavailable | |
| IP rating | IP67 In locked condition | |
| Mating endurance | >500 cycles | |
| Rated current | 2A Per signal 10A total | |
| Voltage | 10~30V DC | |

## Part Number

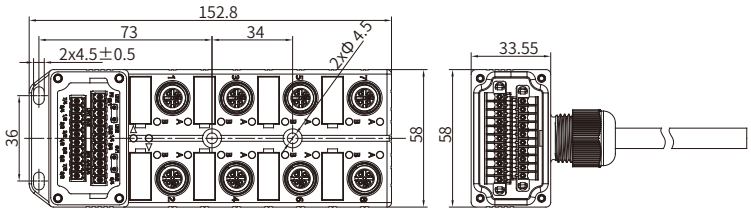
| Pins | With LED | Without LED |
|---|---|---|
| 4 | JB8M12F04L-TB221 | JB8M12F04-TB221 |
| 5 | JB8M12F05L-TB221 | JB8M12F05-TB221 |

## Wire list



# Junction Box

## Junction Box 8 ports, M12 Termination, Pluggable screw connection, Pluggable Temminal Blocks Assembly With Cable




CE RoHS IP67

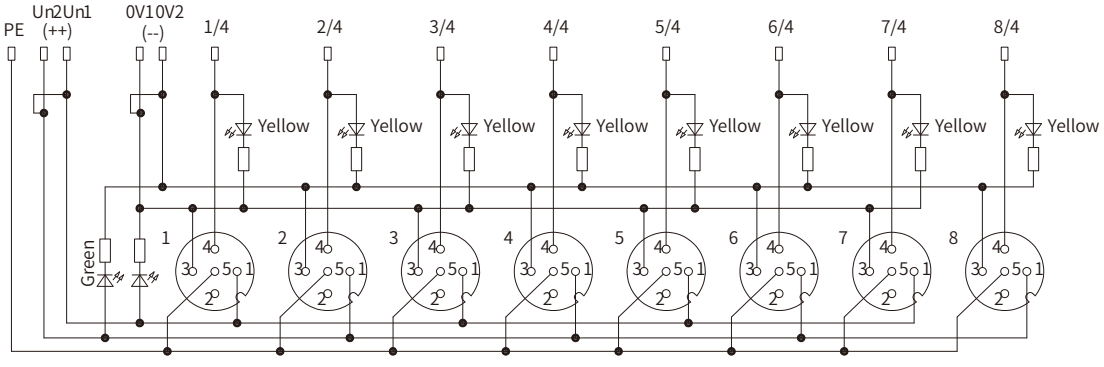
## Specifications

| Contacts | 4 | 5 |
|---|---|---|
| Pinlayout | | |
| Standard | IEC 61076-2-101 | |
| Ambient temperature | -40 °C ~ + 85 °C(fixed installation); -25 °C ~ + 85 °C(flexible installation) | |
| Connector insert | TPU | |
| Connector contacts | Brass with gold plated | |
| Connector overmold | TPU | |
| Coupling nut | Zinc alloy with nickel plated | |
| Insulation resistance | ⩾ 5 MΩ | |
| Contact resistance | ⩽ 5 mΩ | |
| Shielding | Unavailable | |
| IP rating | IP67 In locked condition | |
| Mating endurance | >500 cycles | |
| Rated current | 2A Per signal 10A total | |
| Voltage | 10~30V DC | |

## Part Number

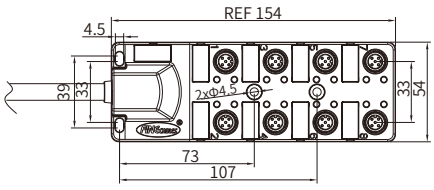
| Pins | Cable length | With LED | | Without LED | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 4 | 1m | JB8M12F04L-TB221-10CB | JB8M12F04L-TB221-10RB | JB8M12F04-TB221-10CB | JB8M12F04-TB221-10RB |
| | 3m | JB8M12F04L-TB221-30CB | JB8M12F04L-TB221-30RB | JB8M12F04-TB221-30CB | JB8M12F04-TB221-30RB |
| | 5m | JB8M12F04L-TB221-50CB | JB8M12F04L-TB221-50RB | JB8M12F04-TB221-50CB | JB8M12F04-TB221-50RB |
| 5 | 1m | JB8M12F05L-TB221-10CB | JB8M12F05L-TB221-10RB | JB8M12F05-TB221-10CB | JB8M12F05-TB221-10RB |
| | 3m | JB8M12F05L-TB221-30CB | JB8M12F05L-TB221-30RB | JB8M12F05-TB221-30CB | JB8M12F05-TB221-30RB |
| | 5m | JB8M12F05L-TB221-50CB | JB8M12F05L-TB221-50RB | JB8M12F05-TB221-50CB | JB8M12F05-TB221-50RB |

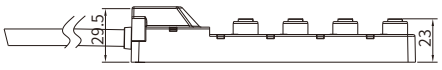
## Wire list



# Junction Boxes

## Junction Box, 8 Ports, M12 Termination, Molded Cable




RoHS

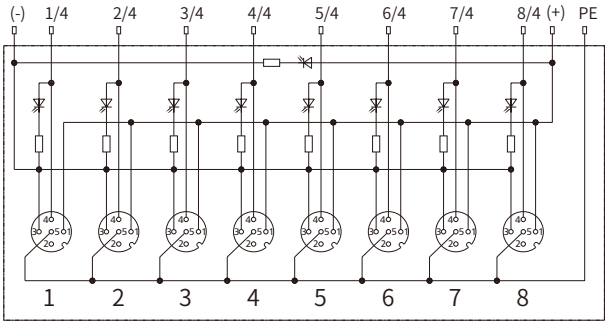
## Specifications

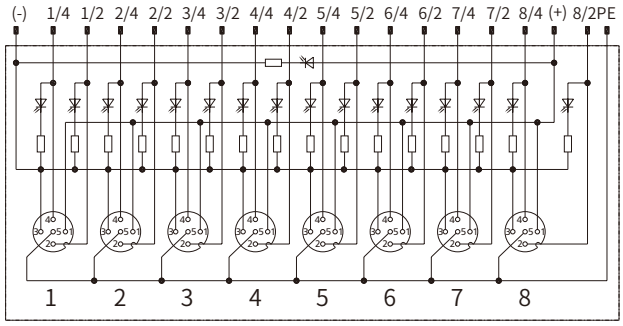
| Contacts | M12 Pin4 (Female) | M12 Pin5 (Female) |
|---|---|---|
| Pin layout | Blind hole | |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | |
| Connector insert | TPU/PA | |
| Connector contacts | Brass with gold plated | |
| Material of body | PBT | |
| Coupling nut/screw | Brass with nickel plated | |
| Body color | Blue | |
| Seal | FKM | |
| Contact resistance | ⩽ 3mΩ | |
| Rated voltage with/without LED | 10~30V/120V | |
| Rated current | 1A per signal,3A total | |
| LED color | Optional | |
| IP rating | IP 67 in locked condition | |
| Coding type | A-Coding | |

## Part Number

| Pins | Cable length | With LED | | Without LED | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 4 | 1m | JB8M12F04L-10CB | JB8M12F04L-10RB | JB8M12F04-10CB | JB8M12F04-10RB |
| | 3m | JB8M12F04L-30CB | JB8M12F04L-30RB | JB8M12F04-30CB | JB8M12F04-30RB |
| | 5m | JB8M12F04L-50CB | JB8M12F04L-50RB | JB8M12F04-50CB | JB8M12F04-50RB |
| 5 | 1m | JB8M12F05L-10CB | JB8M12F05L-10RB | JB8M12F05-10CB | JB8M12F05-10RB |
| | 3m | JB8M12F05L-30CB | JB8M12F05L-30RB | JB8M12F05-30CB | JB8M12F05-30RB |
| | 5m | JB8M12F05L-50CB | JB8M12F05L-50RB | JB8M12F05-50CB | JB8M12F05-50RB |

## Circuit diagram

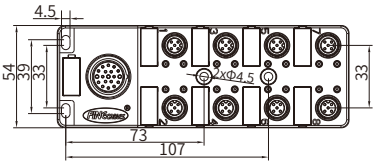


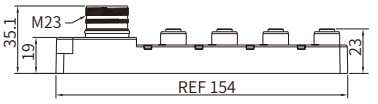




LED indicating: PNP
other circuit diagram (NPN) can be customized

# Junction Boxes

## Junction Box, 8 Ports, M12 Termination, with M23 Connector




**RoHS**

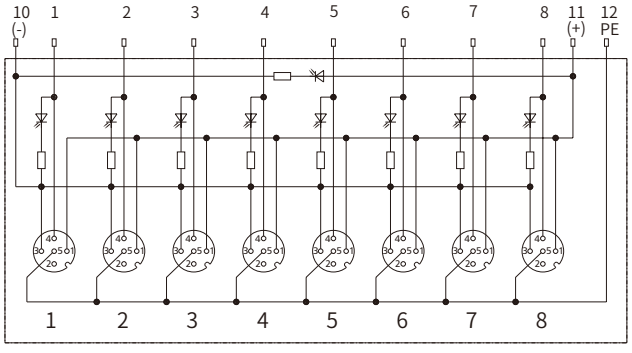
## Specifications

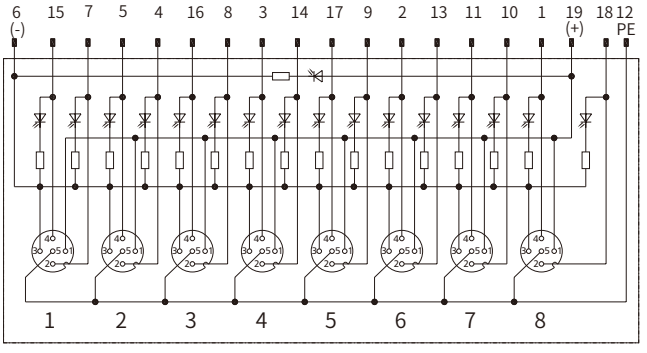
| Contacts | M12 Pin4 (Female) | M12 Pin5 (Female) | M23 Pin12 (Male) | M23 Pin19 (Male) |
|---|---|---|---|---|
| Pin layout | Blind hole | | | |
| Ambient temperature | -25°C~+85°C | | | |
| Connector insert | TPU/PA | | | |
| Connector contacts | Brass with gold plated | | | |
| Material of body | PBT | | | |
| Coupling nut/screw | Brass with nickel plated | | | |
| Body color | Blue | | | |
| Seal | FKM | | | |
| Contact resistance | ⩽5mΩ | | | |
| Rated voltage with/without LED | 10~30V/120V | | | |
| Rated current | 2A per signal, 6A total | | | |
| LED color | Optional | | | |
| IP rating | IP 67 in locked condition | | | |
| Coding type | A-Coding | | | |

## Part Number

| Pins | With LED | | Without LED | |
|---|---|---|---|---|
| | M23 Pin12 (Male) | M23 Pin19 (Male) | M23 Pin12 (Male) | M23 Pin19 (Male) |
| 4 | JB8M12F04L-M23M12 | JB8M12F04L-M23M19 | JB8M12F04-M23M12 | JB8M12F04-M23M19 |
| 5 | JB8M12F05L-M23M12 | JB8M12F05L-M23M19 | JB8M12F05-M23M12 | JB8M12F05-M23M19 |

## Circuit diagram

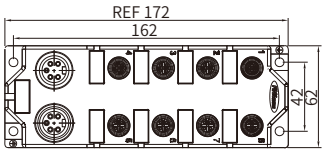



LED indicating: PNP
other circuit diagram (NPN) can be customized

# Junction Boxes

## Junction Box, 8 Ports, M12 Termination, with Mini-Change 7/8" Connector




RoHS

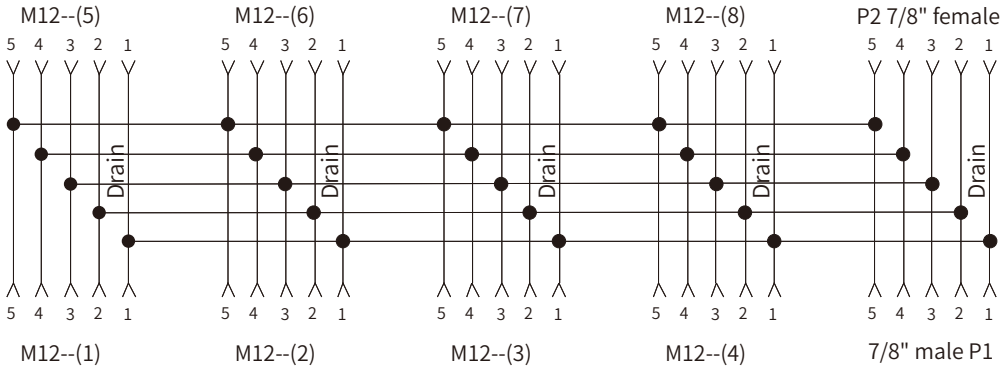
## Specifications

| Contacts | M12 Pin5 (Female) | 7/8" Pin5 (Male) | 7/8" Pin5 (Female) |
|---|---|---|---|
| Pin layout | | | |
| Ambient temperature | -25°C~+85°C | | |
| Connector insert | TPU/PA | | |
| Connector contacts | Brass with gold plated | | |
| Material of body | PBT | | |
| Coupling nut/screw | Brass with nickel plated | | |
| Body color | Blue | | |
| Seal | FKM | | |
| Contact resistance | ⩽5mΩ | | |
| Rated voltage with/without LED | 10~30V/120V | | |
| Rated current | 2A per signal,6A total | | |
| LED color | Optional | | |
| IP rating | IP 67 in locked condition | | |
| Coding type | A-Coding | | |

## Part Number

| Pins | Cable length | With LED | | Without LED | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 5 | 1m | JB8M12F05L-MINIMF10CB | JB8M12F05L-MINIMF10RB | JB8M12F05-MINIMF10CB | JB8M12F05-MINIMF10RB |
| | 3m | JB8M12F05L-MINIMF30CB | JB8M12F05L-MINIMF30RB | JB8M12F05-MINIMF30CB | JB8M12F05-MINIMF30RB |
| | 5m | JB8M12F05L-MINIMF50CB | JB8M12F05L-MINIMF50RB | JB8M12F05-MINIMF50CB | JB8M12F05-MINIMF50RB |

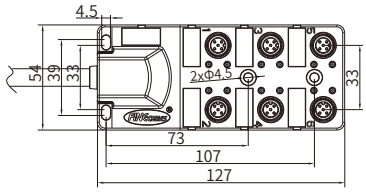
## Circuit diagram

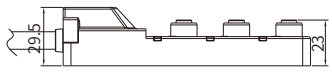



LED indicating: PNP
other circuit diagram (NPN) can be customized

# Junction Boxes

## Junction Box, 6 Ports, M12 Termination, Molded Cable




RoHS

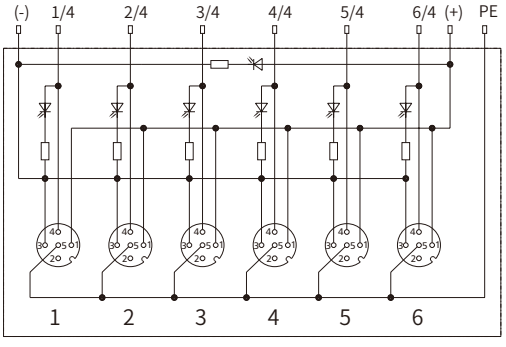
## Specifications

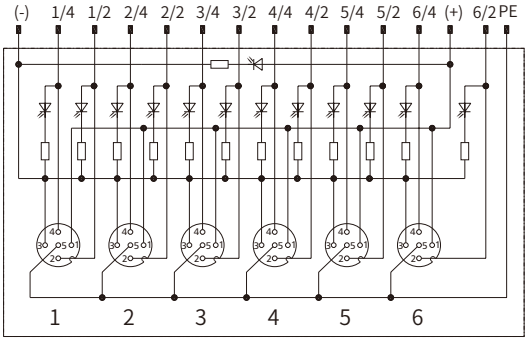
| Contacts | M12 Pin4 (Female) | M12 Pin5 (Female) |
|---|---|---|
| Pin layout | Blind hole | |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | |
| Connector insert | TPU/PA | |
| Connector contacts | Brass with gold plated | |
| Material of body | PBT | |
| Coupling nut/screw | Brass with nickel plated | |
| Body color | Blue | |
| Seal | FKM | |
| Contact resistance | ⩽ 3mΩ | |
| Rated voltage with/without LED | 10~30V/120V | |
| Rated current | 1A per signal,3A total | |
| LED color | Optional | |
| IP rating | IP 67 in locked condition | |
| Coding type | A-Coding | |

## Part Number

| Pins | Cable length | With LED | | Without LED | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 4 | 1m | JB6M12F04L-10CB | JB6M12F04L-10RB | JB6M12F04-10CB | JB6M12F04-10RB |
| | 3m | JB6M12F04L-30CB | JB6M12F04L-30RB | JB6M12F04-30CB | JB6M12F04-30RB |
| | 5m | JB6M12F04L-50CB | JB6M12F04L-50RB | JB6M12F04-50CB | JB6M12F04-50RB |
| 5 | 1m | JB6M12F05L-10CB | JB6M12F05L-10RB | JB6M12F05-10CB | JB6M12F05-10RB |
| | 3m | JB6M12F05L-30CB | JB6M12F05L-30RB | JB6M12F05-30CB | JB6M12F05-30RB |
| | 5m | JB6M12F05L-50CB | JB6M12F05L-50RB | JB6M12F05-50CB | JB6M12F05-50RB |

## Circuit diagram

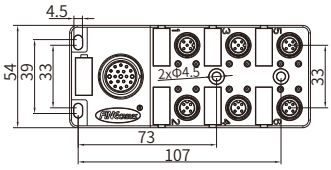


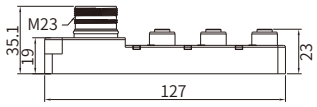




LED indicating: PNP
other circuit diagram (NPN) can be customized

# Junction Boxes

## Junction Box, 6 Ports, M12 Termination, with M23 Connector




RoHS

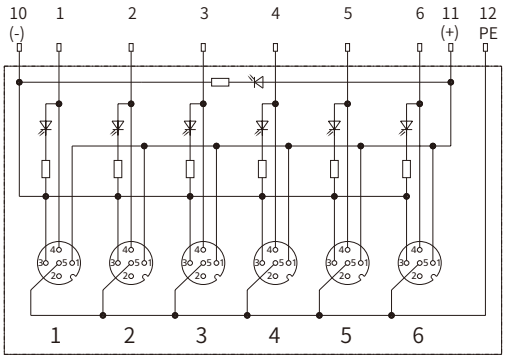
## Specifications

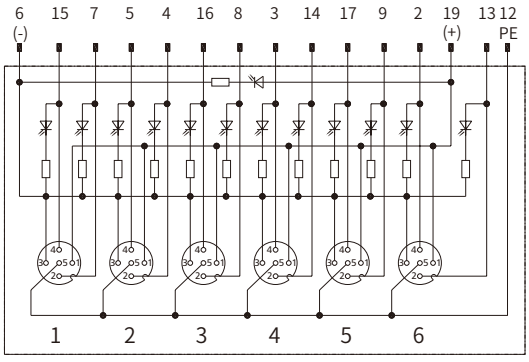
| Contacts | M12 Pin4 (Female) | M12 Pin5 (Female) | M23 Pin12 (Male) | M23 Pin19 (Male) |
|---|---|---|---|---|
| Pin layout | Blind hole | | | |
| Ambient temperature | -25°C~+85°C | | | |
| Connector insert | TPU/PA | | | |
| Connector contacts | Brass with gold plated | | | |
| Material of body | PBT | | | |
| Coupling nut/screw | Brass with nickel plated | | | |
| Body color | Blue | | | |
| Seal | FKM | | | |
| Contact resistance | ⩽5mΩ | | | |
| Rated voltage with/without LED | 10~30V/120V | | | |
| Rated current | 2A per signal, 6A total | | | |
| LED color | Optional | | | |
| IP rating | IP 67 in locked condition | | | |
| Coding type | A-Coding | | | |

## Part Number

| Pins | With LED | | Without LED | |
|---|---|---|---|---|
| | M23 Pin12 (Male) | M23 Pin19 (Male) | M23 Pin12 (Male) | M23 Pin19 (Male) |
| 4 | JB6M12F04L-M23M12 | JB6M12F04L-M23M19 | JB6M12F04-M23M12 | JB6M12F04-M23M19 |
| 5 | JB6M12F05L-M23M12 | JB6M12F05L-M23M19 | JB6M12F05-M23M12 | JB6M12F05-M23M19 |

## Circuit diagram

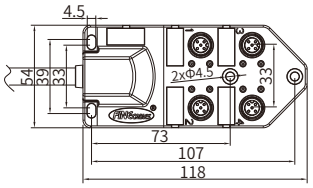


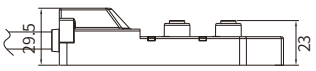




LED indicating: PNP
other circuit diagram (NPN) can be customized

# Junction Boxes

## Junction Box, 4 Ports, M12 Termination, Molded Cable




RoHS

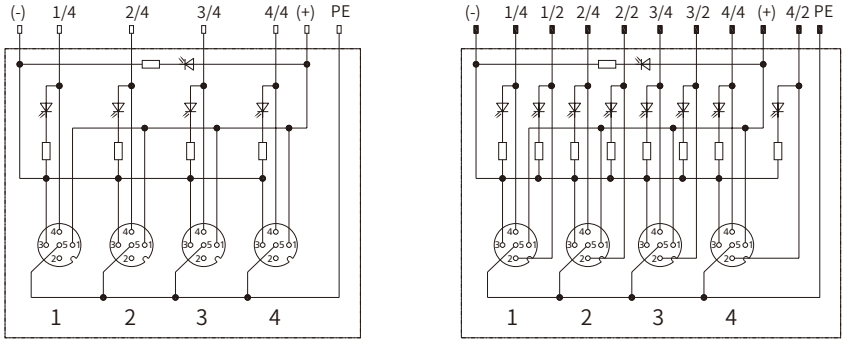
## Specifications

| Contacts | M12 Pin4 (Female) | M12 Pin5 (Female) |
|---|---|---|
| Pin layout | Blind hole | |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | |
| Connector insert | TPU/PA | |
| Connector contacts | Brass with gold plated | |
| Material of body | PBT | |
| Coupling nut/screw | Brass with nickel plated | |
| Body color | Blue | |
| Seal | FKM | |
| Contact resistance | ⩽ 3mΩ | |
| Rated voltage with/without LED | 10~30V/120V | |
| Rated current | 1A per signal,3A total | |
| LED color | Optional | |
| IP rating | IP 67 in locked condition | |
| Coding type | A-Coding | |

## Part Number

| Pins | Cable length | With LED | | Without LED | |
|---|---|---|---|---|---|
| | | PVC | PUR | PVC | PUR |
| 4 | 1m | JB4M12F04L-10CB | JB4M12F04L-10RB | JB4M12F04-10CB | JB4M12F04-10RB |
| | 3m | JB4M12F04L-30CB | JB4M12F04L-30RB | JB4M12F04-30CB | JB4M12F04-30RB |
| | 5m | JB4M12F04L-50CB | JB4M12F04L-50RB | JB4M12F04-50CB | JB4M12F04-50RB |
| 5 | 1m | JB4M12F05L-10CB | JB4M12F05L-10RB | JB4M12F05-10CB | JB4M12F05-10RB |
| | 3m | JB4M12F05L-30CB | JB4M12F05L-30RB | JB4M12F05-30CB | JB4M12F05-30RB |
| | 5m | JB4M12F05L-50CB | JB4M12F05L-50RB | JB4M12F05-50CB | JB4M12F05-50RB |

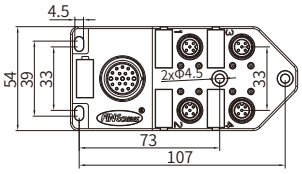
## Circuit diagram

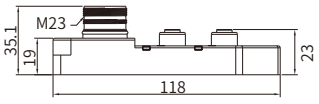



LED indicating: PNP
other circuit diagram (NPN) can be customized

# Junction Boxes

## Junction Box, 4 Ports, M12 Termination, with M23 Connector




RoHS

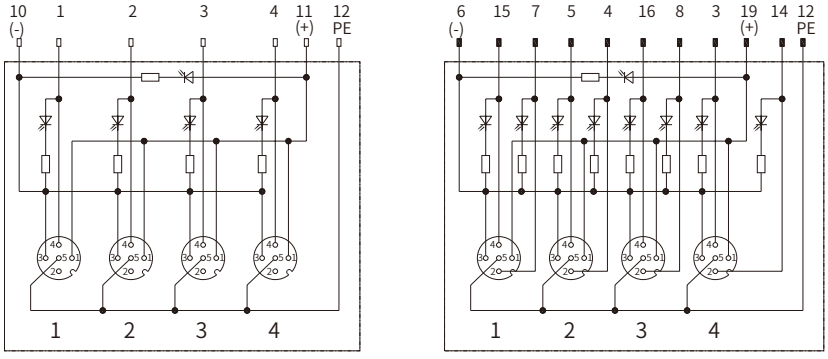
## Specifications

| Contacts | M12 Pin4 (Female) | M12 Pin5 (Female) | M23 Pin12 (Male) | M23 Pin19 (Male) |
|---|---|---|---|---|
| Pin layout | Blind hole | | | |
| Ambient temperature | -25°C~+85°C | | | |
| Connector insert | TPU/PA | | | |
| Connector contacts | Brass with gold plated | | | |
| Material of body | PBT | | | |
| Coupling nut/screw | Brass with nickel plated | | | |
| Body color | Blue | | | |
| Seal | FKM | | | |
| Contact resistance | ⩽5mΩ | | | |
| Rated voltage with/without LED | 10~30V/120V | | | |
| Rated current | 2A per signal, 6A total | | | |
| LED color | Optional | | | |
| IP rating | IP 67 in locked condition | | | |
| Coding type | A-Coding | | | |

## Part Number

| Pins | With LED | | Without LED | |
|---|---|---|---|---|
| | M23 Pin12 (Male) | M23 Pin19 (Male) | M23 Pin12 (Male) | M23 Pin19 (Male) |
| 4 | JB4M12F04L-M23M12 | JB4M12F04L-M23M19 | JB4M12F04-M23M12 | JB4M12F04-M23M19 |
| 5 | JB4M12F05L-M23M12 | JB4M12F05L-M23M19 | JB4M12F05-M23M12 | JB4M12F05-M23M19 |

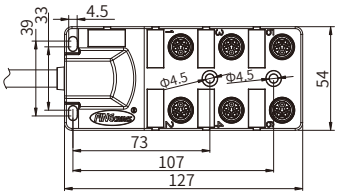
## Circuit diagram

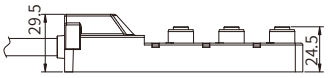



LED indicating: PNP
other circuit diagram (NPN) can be customized

# Junction Boxes

## Junction Box, 6Ports, M12 Termination, Molded Cable




RoHS

## Specifications

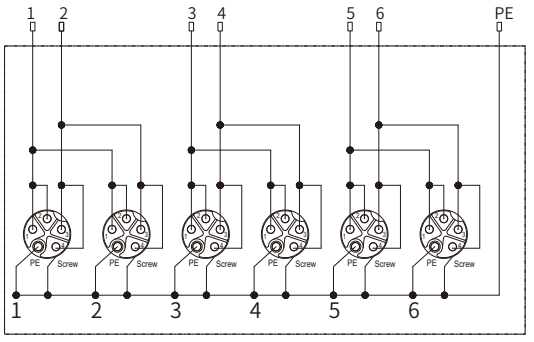
| Contacts | M12 Pin5 (Female) |
|---|---|
| Pin layout | |
| Ambient temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) |
| Connector insert | TPU/PA |
| Connector contacts | Brass with gold plated |
| Material of body | PBT |
| Coupling nut/screw | Brass with nickel plated |
| Body color | Blue |
| Seal | FKM |
| Contact resistance | ⩽10mΩ |
| Rated voltage | 630V |
| Rated current | Available |
| IP rating | IP 67 in locked condition |
| Coding type | K-Coding |

## Part Number

Note: XX for Serial number

| Pins | Cable length | PVC | PUR |
|---|---|---|---|
| 5 | 1m | JB6M12FK05-10CB25-XX | JB6M12FK05-10RB25-XX |
| | 3m | JB6M12FK05-30CB25-XX | JB6M12FK05-30RB25-XX |
| | 5m | JB6M12FK05-50CB25-XX | JB6M12FK05-50RB25-XX |

## Circuit diagram



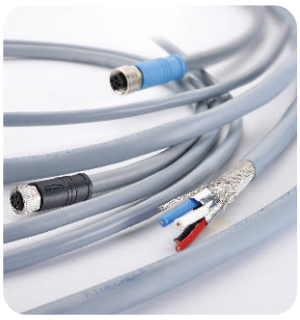

LED indicating: PNP
other circuit diagram (NPN) can be customized

# Cables & Connectors

Finecables® truly understands the cost, time and quality associated with the installation and integration design. Our customized solutions and one-stop services will help you reach your objective by reducing the installation time of cables and wires by 20% to 80%, BOM and design/field assembly labor costs for numerous application fields: Sensors & Industrial Automation Control, Telecommunications & Network, HVAC & Refrigeration, LED Lighting, Railway Transportation System, Marine & Vessels, Medical Devices, Renewable Energy, Measuring & Testing and Package conveyor and logistics system.

## BUS Cables

CAN-BUS cables & connectors ---------- 616
Profibus cables & connectors ---------- 621
DeviceNet cables & connectors ---------- 626
Industrial EtherNet cables & connectors ---------- 634



## Plenum cables

Plenum cables & connectors ---------- 645

## Drag Chain Cables

Drag Chain of Cable (2 million drag chain cycles) ---------- 657
Drag Chain of Cable (5 million drag chain cycles) ---------- 658
Drag Chain of Cable (10 million drag chain cycles) ---------- 659

## Data Cables

PVC Jacket cables ---------- 669
PUR Jacket cables ---------- 682

# BUS cables

## CAN-BUS cables & connectors

CAN-BUS Cables for a Controller Area Network have been standardized for different application fields, originally developed for cars, and used in industry in an extremely broad range of applications. The largest spreading has got the high speed type according to ISO 11898-2. The bus is optimized for a band efficient digital information exchange on the controller level.

# BUS Cables

## CAN-BUS Cables

RoHS

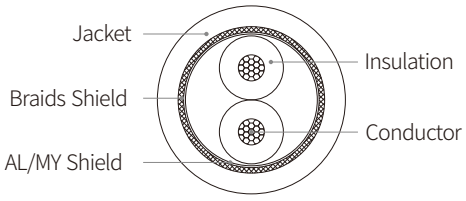
## Cable Features

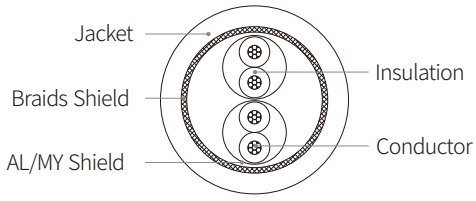
- Oil resistant
- Halogen-free PUR jacket available
- UL/CSA certified

## Detailed Specifications

| Structure | Items | Unit | Specifications | | | |
|---|---|---|---|---|---|---|
| Conductor | AWG No. | AWG | 24AWGx1P | 22AWGx1P | 24AWGx2P | 22AWGx2P |
| | Material | - | Bare Copper | | | |
| | Core wire | Pairs | 1P | | 2P | |
| Wire Insulation | Material | - | FPE | | | |
| | Color | - | White&Blue | | White&Blue; Green&Yellow | |
| Assembly | Drain Wire | mm | 24AWG | | 22AWG | |
| | Aluminum | mm | >100% | | | |
| | Braids | mm | >65% | | | |
| Jacket | Material | - | PVC/PUR | | | |
| | Color | - | Violet | | | |
| | Over Diameter | mm | 6.0 | 7.0 | 7.5 | 8.5 |
| Electrical Capability | Rated Temp | ℃ | 80°C | | | |
| | Rated Voltage | V | 300V | | | |
| | Conductor Resistance | Ω/KM20°C | 24AWG:94.2Max; 22AWG:59.4Max | | | |
| | Insulation Resistance | MΩ/KM20°C | 100 Min | | | |
| | Impedance | Ω | 120+/-20% (for signal pair) | | | |
| | Flame Rating | - | IEC 60332-1-2 | | | |

## Cable Construction




## Technical Data

- Test Voltage: AC 2000V/min
- Minimum Bending Radius: 12xOD
- RoHS Compliant
- Temperature Range:
  -40°C~+80°C(Fixed Installation)
  -25°C~+80°C(Flexible Installation)

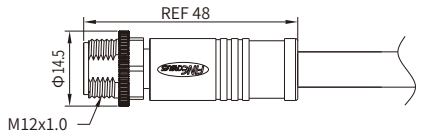
## Advantage & Application

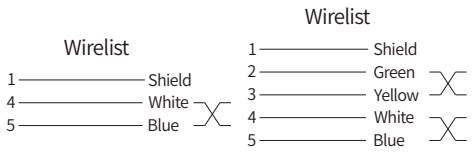
- Used for Field Link of CAN-BUS cables.
- For high flexible applications power chains/cable tracks, moving machine parts, etc.
- Cost effective for cables and installation
- For fixed/flexible installation cables.
- Easy identification of cable faults.

## Part No.

| AWG | 22AWG | | 24AWG | |
|---|---|---|---|---|
| Pairs | 1P | 2P | 1P | 2P |
| Cable length 2m | CBS1x2m | CBS2x2m | CBS3x2m | CBS4x2m |
| Cable length 5m | CBS1x5m | CBS2x5m | CBS3x5m | CBS4x5m |
| Cable length 7m | CBS1x7m | CBS2x7m | CBS3x7m | CBS4x7m |

## CAN-BUS Cables: M12 Male Connector With Cable




RoHS

## Specifications

| Contacts | 5(Male) |
|---|---|
| Pin layout | |
| Connector Series | M12 |
| Contact No. | 5 Pins |
| Coding | A |
| Contacts Material | Brass with gold plated |
| Nut/Screw Material | Zinc alloy with nickel plated |
| Connector Insert | TPU |
| Over-molding | TPU |
| Jacket Color | RAL4001(Violet RAL4001) |
| Shielding | Available |
| IP Rating | IP67/IP69K |
| Ambient Temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) |
| Contacts Type | Solder version |
| Rated current | 4A |
| Voltage | 60V |
| Wire gauge/size | 1Pair: 24AWG / 1Pair: 22AWG / 2Pairs: 24AWG /2Pairs: 22AWG |
| Cable jacket | PUR/PVC |
| Cable length | Customized Cable Length |

## Product Features

- 1-Pair or 2-Pair cores of CAN-BUS cables
- M12, A-coded, 5pins
- Single end with customized cable end process
- Suitable for drag chain
- RoHS compliant

## Product Advantage

- Used for cost-saving installation of CAN-BUS cable system
- Space-saving solution due to compact dimensions
- Fast and easy to identify error
- Low cost but high productivity
- Standardized interfaces

## Application Fields

- Automotive Industry
- Mechanical Engineering
- Aviation/Aerospace/Marine Engineering
- Automation Control
- Robotics/CNC

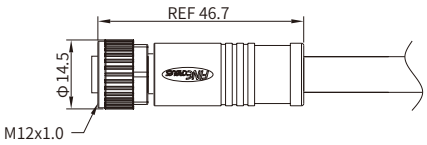
## Cable Construction

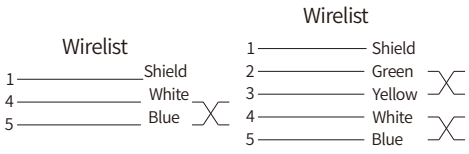
- Permanently flexible control cable
- Construction: 1Pair(or 2Pairs)+Shield(AL)+Drain+Braids
- Conductor: Bare copper
- Violet jacket

## Part No.

| AWG | 22AWG | | 24AWG | |
|---|---|---|---|---|
| Pairs | 1P | 2P | 1P | 2P |
| Cable length 2m | M12MSAHD05ST-CBS1x2m | M12MSAHD05ST-CBS2x2m | M12MSAHD05ST-CBS3x2m | M12MSAHD05ST-CBS4x2m |
| Cable length 5m | M12MSAHD05ST-CBS1x5m | M12MSAHD05ST-CBS2x5m | M12MSAHD05ST-CBS3x5m | M12MSAHD05ST-CBS4x5m |
| Cable length 7m | M12MSAHD05ST-CBS1x7m | M12MSAHD05ST-CBS2x7m | M12MSAHD05ST-CBS3x7m | M12MSAHD05ST-CBS4x7m |

## CAN-BUS Cables: M12 Female Connector With Cable




RoHS

## Specifications

| Contacts | 5(Female) |
|---|---|
| Pin layout | |
| Connector Series | M12 |
| Contact No. | 5 Pins |
| Coding | A |
| Contacts Material | Brass with gold plated |
| Nut/Screw Material | Zinc alloy with nickel plated |
| Connector Insert | TPU; PA |
| Over-molding | TPU |
| Jacket Color | RAL4001(Violet RAL4001) |
| Shielding | Available |
| IP Rating | IP67/IP69K |
| Ambient Temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) |
| Contacts Type | Solder version |
| Rated current | 4A |
| Voltage | 60V |
| Wire gauge/size | 1Pair: 24AWG / 1Pair: 22AWG / 2Pairs: 24AWG /2Pairs: 22AWG |
| Cable jacket | PUR/PVC |
| Cable length | Customized Cable Length |

## Product Features

- 1-Pair or 2-Pair cores of CAN-BUS cables
- M12, A-coded, 5pins
- Single end with customized cable end process
- Suitable for drag chain
- RoHS compliant

## Product Advantage

- Used for cost-saving installation of CAN-BUS cable system
- Space-saving solution due to compact dimensions
- Fast and easy to identify error
- Low cost but high productivity
- Standardized interfaces

## Application Fields

- Automotive Industry
- Mechanical Engineering
- Aviation/Aerospace/Marine Engineering
- Automation Control
- Robotics/CNC

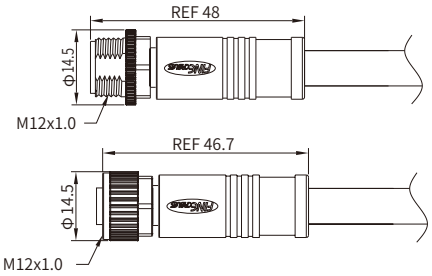
## Cable Construction

- Permanently flexible control cable
- Construction: 1Pair(or 2Pairs)+Shield(AL)+Drain+Braids
- Conductor: Bare copper
- Violet jacket

## Part No.

| AWG | 22AWG | | 24AWG | |
|---|---|---|---|---|
| Pairs | 1P | 2P | 1P | 2P |
| Cable length 2m | M12FSAHD05ST-CBS1x2m | M12FSAHD05ST-CBS2x2m | M12FSAHD05ST-CBS3x2m | M12FSAHD05ST-CBS4x2m |
| Cable length 5m | M12FSAHD05ST-CBS1x5m | M12FSAHD05ST-CBS2x5m | M12FSAHD05ST-CBS3x5m | M12FSAHD05ST-CBS4x5m |
| Cable length 7m | M12FSAHD05ST-CBS1x7m | M12FSAHD05ST-CBS2x7m | M12FSAHD05ST-CBS3x7m | M12FSAHD05ST-CBS4x7m |

## CAN-BUS Cables: M12 Male Connector to M12 Female Connector



## Specifications

| Contacts | 5(Male) | 5(Female) |
|---|---|---|
| Pin layout A(male) | | |
| Connector Series | M12 | |
| Contact No. | 5 Pins | |
| Coding | A | |
| Contacts Material | Brass with gold plated | |
| Nut/Screw Material | Zinc alloy with nickel plated | |
| Connector Insert | TPU; PA | |
| Over-molding | TPU | |
| Jacket Color | RAL4001 | |
| Shielding | Available | |
| IP Rating | IP67/IP69K | |
| Ambient Temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | |
| Contacts Type | Solder version | |
| Rated current | 4A | |
| Voltage | 60V | |
| Wire gauge/size | 1Pair: 24AWG / 1Pair: 22AWG / 2Pairs: 24AWG /2Pairs: 22AWG | |
| Cable jacket | PUR/PVC | |
| Cable length | Customized Cable Length | |

## Product Features

- 1-Pair or 2-Pair cores of CAN-BUS cables
- M12, A-coded, 5pins
- Double ends
- Suitable for drag chain
- RoHS compliant

## Product Advantage

- Used for cost-saving installation of CAN-BUS cable system
- Space-saving solution due to compact dimensions
- Fast and easy to identify error
- Low cost but high productivity
- Standardized interfaces

## Application Fields

- Automotive Industry
- Mechanical Engineering
- Aviation/Aerospace/Marine Engineering
- Automation Control
- Robotics/CNC

## Cable Construction

- Permanently flexible control cable
- Construction: 1Pair(or 2Pairs)+Shield(AL)+Drain+Braids
- Conductor: Bare copper
- Violet jacket

## Part No.

| AWG | 22AWG | |
|---|---|---|
| Pairs | 1P | 2P |
| Cable length 2m | M12MSAHD05ST-CBS1x2m-M12FSAHD05ST | M12MSAHD05ST-CBS2x2m-M12FSAHD05ST |
| Cable length 5m | M12MSAHD05ST-CBS1x5m-M12FSAHD05ST | M12MSAHD05ST-CBS2x5m-M12FSAHD05ST |
| Cable length 7m | M12MSAHD05ST-CBS1x7m-M12FSAHD05ST | M12MSAHD05ST-CBS2x7m-M12FSAHD05ST |
| AWG | 24AWG | |
| Pairs | 1P | 2P |
| Cable length 2m | M12MSAHD05ST-CBS3x2m-M12FSAHD05ST | M12MSAHD05ST-CBS4x2m-M12FSAHD05ST |
| Cable length 5m | M12MSAHD05ST-CBS3x5m-M12FSAHD05ST | M12MSAHD05ST-CBS4x5m-M12FSAHD05ST |
| Cable length 7m | M12MSAHD05ST-CBS3x7m-M12FSAHD05ST | M12MSAHD05ST-CBS4x7m-M12FSAHD05ST |

# BUS cables

## Profibus cables & connectors

Profibus are divided into two categories of Profibus PA and Profibus DP.

Process Automation (PA):
Profibus is standardized according to IEC 61158 that means best interoperability of components from different manufactures.

Decentralized Periphery (DP):
The modular peripheral construction of the bus system simplifies installation and maintenance.

The Profibus PA is the leader in Process Automation in Europe, while Profibus DP range dominates worldwide with a bit rate of 1.5Mbit/s up to 12 Mbit/s. So, the type PA is generally used in current systems, and the type DP are only used for replacement purpose in already existing systems.

# BUS Cables

## Profibus Cables

RoHS

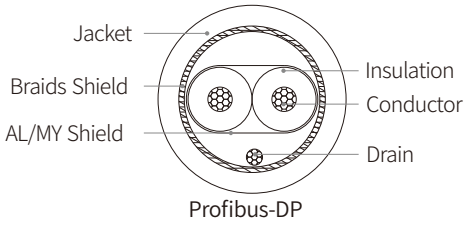
## Cable Features

- Oil resistant
- Halogen-free PUR jacket available
- UL/CSA certified

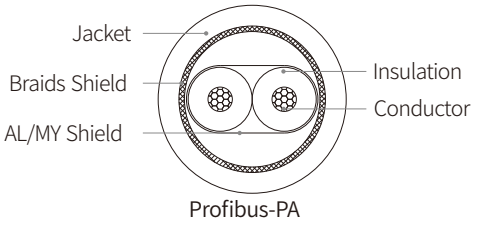
## Detailed Specifications

| Structure | Items | Unit | Specifications | |
|---|---|---|---|---|
| | | | Profibus-PA | Profibus-DP |
| Conductor | AWG No. | AWG | 22AWGx1P | 18AWGx1P |
| | Material | - | Bare Copper | |
| | Core wire | Pairs | 1P | 1P |
| Wire Insulation | Material | - | FRFPE or FHDPE | |
| | Color | - | Red&Green | Blue&Orange |
| Assembly | Drain Wire | mm | 22AWG | --- |
| | Aluminum | mm | >100% | |
| | Braids | mm | >65% | |
| Jacket | Material | - | PVC/PUR | |
| | Color | - | Purple | Blue |
| | Over Diameter | mm | 8.0 | 11.1 |
| Electrical Capability | Rated Temp | °C | 80°C | |
| | Rated Voltage | V | 300V | |
| | Conductor Resistance | Ω/KM20°C | 22AWG:59.4Max | 18AWG:23.2Max |
| | Insulation Resistance | MΩ/KM20°C | 100 Min | |
| | Impedance | Ω | 100+/-10%; 150+/-10% | |
| | Flame Rating | - | IEC 60332-1-2 | |

## Cable Construction




Profibus-DP




Profibus-PA

## Technical Data

- Test Voltage: AC 1500V/min
- Minimum Bending Radius: 15xOD
- RoHS Compliant
- Temperature Range:
  -40°C~+80°C(Fixed Installation)
  -25°C~+80°C(Flexible Installation)

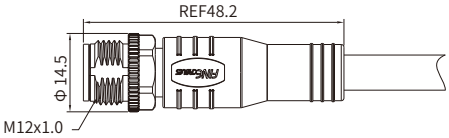
## Advantage & Application

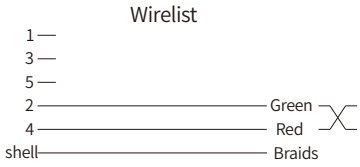
- Used for Field-Link of Profibus cables
- For high flexible applications (power chains/cable tracks, moving machine parts, etc.
- Cost effective for cables and installation
- For fixed/flexible installation cables
- Easy identification of cable faults.

## Part No.

| AWG | 18AWG | 22AWG |
|---|---|---|
| Pairs | 1P | 1P |
| Cable length 2m | PBS1x2m | PBS3x2m |
| Cable length 5m | PBS1x5m | PBS3x5m |
| Cable length 7m | PBS1x7m | PBS3x7m |

## Profibus Cables: M12 Male Connector With Cable




RoHS

## Specifications

| Contacts | 5(Male) |
|---|---|
| Pin layout | |
| Connector Series | M12 |
| Contact No. | 5 Pins (Pin2&Pin4 connected) |
| Coding | B |
| Contacts Material | Brass with gold plated |
| Nut/Screw Material | Zinc alloy with nickel plated |
| Connector Insert | TPU |
| Over-molding | TPU |
| Wire Color | Red, Green |
| Jacket Color | Violet RAL4001 |
| Shielding | Available |
| IP Rating | IP67/IP69K |
| Ambient Temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) |
| Contacts Type | Solder version |
| Rated current | 4A |
| Voltage | 250V |
| Wire gauge/size | 1Pair: 24AWG / 1Pair: 22AWG / 1Pairs: 18AWG |
| Cable jacket | PUR/PVC |
| Cable length | Customized Cable Length |

## Product Features

- 2-core Profibus cable
- M12, B-coded, 5pins
- Single end with customized cable end process
- Suitable for drag chain
- RoHS compliant

## Product Advantage

- Used for cost-saving installation of Profibus cable system
- Space-saving solution due to compact dimensions
- Fast and easy to identify error
- Low cost but high productivity
- Standardized interfaces

## Application Fields

- Automotive Industry
- Mechanical Engineering
- Plant Installation Engineering
- Automation Control
- Tool Room

## Cable Construction

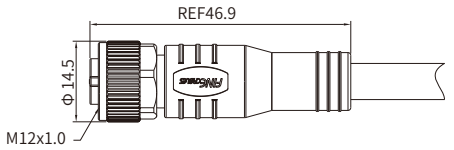
- Permanently flexible control cable
- Construction: 1Pair+Shield(AL)+Drain+Braids
- Conductor: Bare copper
- Violet jacket

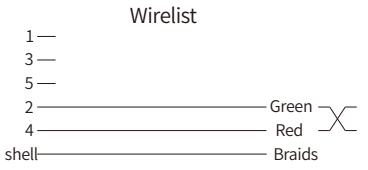
## Part No.

| AWG | 22AWG | | 24AWG | |
|---|---|---|---|---|
| Pairs | 1P | 2P | 1P | 2P |
| Cable length 2m | M12MSAHD05ST-PBS1x2m | M12MSAHD05ST-PBS2x2m | M12MSAHD05ST-PBS3x2m | M12MSAHD05ST-PBS4x2m |
| Cable length 5m | M12MSAHD05ST-PBS1x5m | M12MSAHD05ST-PBS2x5m | M12MSAHD05ST-PBS3x5m | M12MSAHD05ST-PBS4x5m |
| Cable length 7m | M12MSAHD05ST-PBS1x7m | M12MSAHD05ST-PBS2x7m | M12MSAHD05ST-PBS3x7m | M12MSAHD05ST-PBS4x7m |

# BUS Cables

## Profibus Cables: M12 Female Connector With Cable




RoHS

## Specifications

| Contacts | 5(Female) |
|---|---|
| Pin layout | |
| Connector Series | M12 |
| Contact No. | 5 Pins (Pin2&Pin4 connected) |
| Coding | B |
| Contacts Material | Brass with gold plated |
| Nut/Screw Material | Zinc alloy with nickel plated |
| Connector Insert | TPU; PA |
| Over-molding | TPU |
| Wire Color | Red, Green |
| Jacket Color | Violet RAL4001 |
| Shielding | Available |
| IP Rating | IP67/IP69K |
| Ambient Temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) |
| Contacts Type | Solder version |
| Rated current | 4A |
| Voltage | 250V |
| Wire gauge/size | 1Pair: 24AWG / 1Pair: 22AWG / 1Pairs: 18AWG |
| Cable jacket | PUR/PVC |
| Cable length | Customized Cable Length |

## Product Features

- 2-core Profibus cable
- M12, B-coded, 5pins
- Single end with customized cable end process
- Suitable for drag chain
- RoHS compliant

## Product Advantage

- Used for cost-saving installation of Profibus cable system
- Space-saving solution due to compact dimensions
- Fast and easy to identify error
- Low cost but high productivity
- Standardized interfaces

## Application Fields

- Automotive Industry
- Mechanical Engineering
- Plant Installation Engineering
- Automation Control
- Tool Room

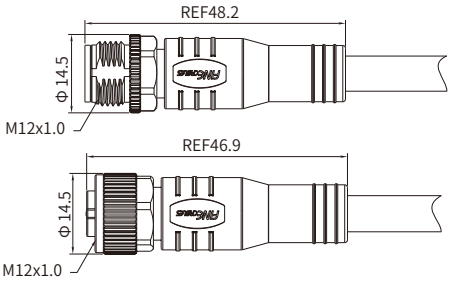
## Cable Construction

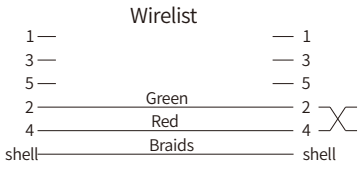
- Permanently flexible control cable
- Construction: 1Pair+Shield(AL)+Drain+Braids
- Conductor: Bare copper
- Violet jacket

## Part No.

| AWG | 22AWG | 24AWG |
|---|---|---|
| Pairs | 1P | 1P |
| Cable length 2m | M12FSAHD05ST-PBS1x2m | M12FSAHD05ST-PBS3x2m |
| Cable length 5m | M12FSAHD05ST-PBS1x5m | M12FSAHD05ST-PBS3x5m |
| Cable length 7m | M12FSAHD05ST-PBS1x7m | M12FSAHD05ST-PBS3x7m |

## Profibus Cables: M12 Male Connector To M12 Female Connector




## Specifications

| Contacts | 5(Male) | 5(Female) |
|---|---|---|
| Pin layout | | |
| Connector Series | M12 | |
| Contact No. | 5 Pins (Pin2&Pin4 connected) | |
| Coding | B | |
| Contacts Material | Brass with gold plated | |
| Nut/Screw Material | Zinc alloy with nickel plated | |
| Connector Insert | TPU; PA | |
| Over-molding | TPU | |
| Wire Color | Red, Green | |
| Jacket Color | Violet RAL4001 | |
| Shielding | Available | |
| IP Rating | IP67/IP69K | |
| Ambient Temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | |
| Contacts Type | Solder version | |
| Rated current | 4A | |
| Voltage | 250V | |
| Wire gauge/size | 1Pair: 24AWG / 1Pair: 22AWG / 1Pairs: 18AWG | |
| Cable jacket | PUR/PVC | |
| Cable length | Customized Cable Length | |

## Product Features

- 2-core Profibus cable
- M12, B-coded, 5pins
- Double ends
- Suitable for drag chain
- RoHS compliant

## Product Advantage

- Used for cost-saving installation of Profibus cable system
- Space-saving solution due to compact dimensions
- Fast and easy to identify error
- Low cost but high productivity
- Standardized interfaces

## Application Fields

- Automotive Industry
- Mechanical Engineering
- Plant Installation Engineering
- Automation Control
- Tool Room

## Cable Construction

- Permanently flexible control cable
- Construction: 1Pair+Shield(AL)+Drain+Braids
- Conductor: Bare copper
- Violet jacket

## Part No.

| AWG | 22AWG | 24AWG |
|---|---|---|
| Pairs | 1P | 1P |
| Cable length 2m | M12MSAHD05ST-PBS1x2m-M12FSAHD05ST | M12MSAHD05ST-PBS3x2m-M12FSAHD05ST |
| Cable length 5m | M12MSAHD05ST-PBS1x5m-M12FSAHD05ST | M12MSAHD05ST-PBS3x5m-M12FSAHD05ST |
| Cable length 7m | M12MSAHD05ST-PBS1x7m-M12FSAHD05ST | M12MSAHD05ST-PBS3x7m-M12FSAHD05ST |

# BUS cables

## DeviceNet cables & connectors

Based on CAN structures DeviceNet was developed for the industrial process automation on the North American continent. This system is divided into Trunk and Drop cable.

Incorporating a power and data pair, the Trunk cable is suitable for use in Allen Bradley DeviceNet system. Several sheathing options are available for different installation environments.

The Drop cable is designed to connect actuators, sensors, and switching to the DeviceNet on the Allen Bradley DeviceNet system. Several sheathing options are available for different installation environments.

# BUS Cables

## DeviceNet Cables

RoHS

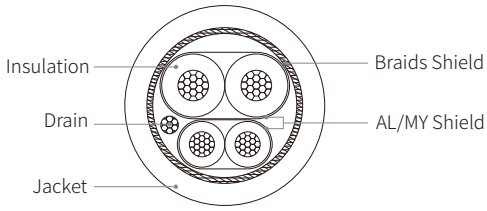
## Cable Features

- Oil resistant
- Cable length changeable with data transmission rate and cable size
- Designed per ODVA standards
- Based on proven CAN technology

## Detailed Specifications

| Structure | Items | Unit | Specifications | | | |
|---|---|---|---|---|---|---|
| Conductor | AWG No. | AWG | 22AWGx1P+24AWGx1P | 18AWGx1P+20AWGx1P | 16AWGx1P+18AWGx1P | 15AWGx1P+18AWGx1P |
| | Material | - | Tinned copper | | | |
| Wire Insulation | Material | - | PVC Insulation(Power); FPE Insulation(Data) | | | |
| | Color | - | Red&Black(Power Pair); Blue&White(Data Pair) | | | |
| Assembly | Drain Wire | mm | 24AWG | 20AWG | 18AWG | 18AWG |
| | Aluminum | mm | >100% | | | |
| | Braids | mm | >65% | | | |
| Jacket | Material | - | PVC/PUR/TPE/CPE | | | |
| | Color | - | Gray | | | |
| | Over Diameter | mm | 7.0 | 9.60 | 11.0 | 12.0 |
| Electrical Capability | Rated Temp | ℃ | 80°C | | | |
| | Rated Voltage | V | 300V | | | |
| | Conductor Resistance | Ω/KM20°C | 22AWG:59.4Max/24AWG:94.2Max | 18AWG:23.2Max/20AWG:36.7Max | 16AWG:14.6Max/18AWG:23.2Max | 15AWG:11.8Max/18AWG:23.2Max |
| | Insulation Resistance | MΩ/KM20°C | 100 Min | | | |
| | Impedance | Ω | 120+/-10% (for signal pair) | | | |
| | Flame Rating | - | IEC 60332-1-2 | | | |

## Cable Construction




## Technical Data

- Test Voltage: AC 2000V/min
- Minimum Bending Radius: 15xOD
- RoHS Compliant
- Temperature Range:
  -40°C~+80°C(Fixed Installation)
  -25°C~+80°C(Flexible Installation)

## Advantage & Application

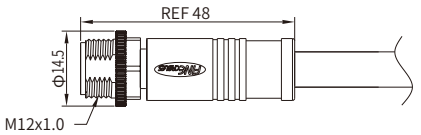
- Used for limit switches, photoelectric switches, variable frequency drives, valve islands, motor starters, PLCs, etc.
- For high flexible applications (power chains/cable tracks, moving machine parts, etc.
- Cost effective for cables and installation
- For fixed/flexible installation cables
- Easy identification of cable faults

## Part No.

| AWG | 22AWGx1P+24AWGx1P | 18AWGx1P+20AWGx1P | 16AWGx1P+18AWGx1P | 15AWGx1P+18AWGx1P |
|---|---|---|---|---|
| Cable length 2m | DBS1x2m | DBS2x2m | DBS3x2m | DBS4x2m |
| Cable length 5m | DBS1x5m | DBS2x5m | DBS3x5m | DBS4x5m |
| Cable length 7m | DBS1x7m | DBS2x7m | DBS3x7m | DBS4x7m |

# BUS Cables

## DeviceNet Cable: M12 Male Connector With Cable




Wirelist

| | | |
|---|---|---|
| 1 | Shield | |
| 2 | Red | X |
| 3 | Black | |
| 4 | White | X |
| 5 | Blue | |

**RoHS**

## Specifications

| Contacts | 5(Male) |
|---|---|
| Pin layout | |
| Connector Series | M12 |
| Contact No. | 5 Pins |
| Coding | A |
| Contacts Material | Brass with gold plated |
| Nut/Screw Material | Zinc alloy with nickel plated |
| Connector Insert | TPU; PA |
| Over-molding | TPU |
| Wire Color | 1Pair(Red/Black); 1Pair(Blue/White) |
| Jacket Color | Gray |
| Shielding | Available |
| IP Rating | IP67/IP69K |
| Ambient Temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) |
| Contacts Type | Solder version |
| Rated current | 4A |
| Voltage | 250V |
| Wire gauge/size | 22AWGx1Pair+24AWGx1Pair |
| Cable jacket | PUR/PVC |
| Cable length | Customized Cable Length |

## Product Features

- 2-Pair DeviceNet jacket cable
- M12,A-coded
- Single end with customized cable end process
- Suitable for drag chain
- RoHS compliant

## Product Advantage

- Used for industrial equipment telecommunication
- Improvement of process data management
- Cost-saving Installation
- Low cost but high productivity
- For open internet standards and agreements
- Standardized interfaces

## Application Fields

- Automotive Industry
- Mechanical Engineering
- Plant Installation Engineering
- Automation Control
- Tool Room

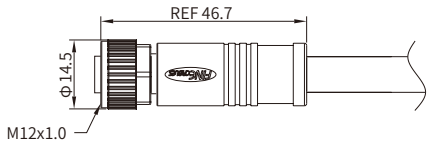
## Cable Construction

- Permanently flexible control cable
- Construction: 2Pairs+Shield(AL)+Drain+Braids
- Conductor: Tinned copper
- Gray jacket

## Part No.

| Pairs | 1P | | | |
|---|---|---|---|---|
| AWG | 22AWG+24AWG | 18AWG+20AWG | 16AWG+18AWG | 15AWG+18AWG |
| Cable length 2m | M12MSAHD05ST-DBS1x2m | M12MSAHD05ST-DBS2x2m | M12MSAHD05ST-DBS3x2m | M12MSAHD05ST-DBS4x2m |
| Cable length 5m | M12MSAHD05ST-DBS1x5m | M12MSAHD05ST-DBS2x5m | M12MSAHD05ST-DBS3x5m | M12MSAHD05ST-DBS4x5m |
| Cable length 7m | M12MSAHD05ST-DBS1x7m | M12MSAHD05ST-DBS2x7m | M12MSAHD05ST-DBS3x7m | M12MSAHD05ST-DBS4x7m |

## DeviceNet Cable: M12 Female Connector With Cable




Wirelist

| | | |
|---|---|---|
| 1 | Shield | |
| 2 | Red | |
| 3 | Black | |
| 4 | White | |
| 5 | Blue | |

**RoHS**

## Specifications

| Contacts | 5(Female) |
|---|---|
| Pin layout | |
| Connector Series | M12 |
| Contact No. | 5 Pins |
| Coding | A |
| Contacts Material | Brass with gold plated |
| Nut/Screw Material | Zinc alloy with nickel plated |
| Connector Insert | TPU; PA |
| Over-molding | TPU |
| Wire Color | 1Pair(Red/Black); 1Pair(Blue/White) |
| Jacket Color | Gray |
| Shielding | Available |
| IP Rating | IP67/IP69K |
| Ambient Temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) |
| Contacts Type | Solder version |
| Rated current | 4A |
| Voltage | 250V |
| Wire gauge/size | 22AWGx1Pair+24AWGx1Pair |
| Cable jacket | PUR/PVC |
| Cable length | Customized Cable Length |

## Product Features

- 2-Pair DeviceNet jacket cable
- M12,A-coded
- Single end with customized cable end process
- Suitable for drag chain
- RoHS compliant

## Product Advantage

- Used for industrial equipment telecommunication
- Improvement of process data management
- Cost-saving Installation
- Low cost but high productivity
- For open internet standards and agreements
- Standardized interfaces

## Application Fields

- Automotive Industry
- Mechanical Engineering
- Plant Installation Engineering
- Automation Control
- Tool Room

## Cable Construction

- Permanently flexible control cable
- Construction: 2Pairs+Shield(AL)+Drain+Braids
- Conductor: Tinned copper
- Gray jacket

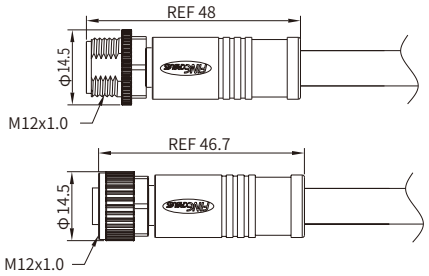
## Part No.

| Pairs | 1P | | | |
|---|---|---|---|---|
| AWG | 22AWG+24AWG | 18AWG+20AWG | 16AWG+18AWG | 15AWG+18AWG |
| Cable length 2m | M12FSAHD05ST-DBS1x2m | M12FSAHD05ST-DBS2x2m | M12FSAHD05ST-DBS3x2m | M12FSAHD05ST-DBS4x2m |
| Cable length 5m | M12FSAHD05ST-DBS1x5m | M12FSAHD05ST-DBS2x5m | M12FSAHD05ST-DBS3x5m | M12FSAHD05ST-DBS4x5m |
| Cable length 7m | M12FSAHD05ST-DBS1x7m | M12FSAHD05ST-DBS2x7m | M12FSAHD05ST-DBS3x7m | M12FSAHD05ST-DBS4x7m |

# BUS Cables

## DeviceNet Cable: M12 Male Connector To Female Connector

**RoHS**




Wirelist

| | | |
|---|---|---|
| 1 | Shield | 1 |
| 2 | Red | 2 |
| 3 | Black | 3 |
| 4 | White | 4 |
| 5 | Blue | 5 |

## Specifications

| Contacts | 5(Male) | 5(Female) |
|---|---|---|
| Pin layout | | |
| Connector Series | M12 | |
| Contact No. | 5 Pins | |
| Coding | A | |
| Contacts Material | Brass with gold plated | |
| Nut/Screw Material | Zinc alloy with nickel plated | |
| Connector Insert | TPU; PA | |
| Over-molding | TPU | |
| Wire Color | 1Pair(Red/Black); 1Pair(Blue/White) | |
| Jacket Color | Gray | |
| Shielding | Available | |
| IP Rating | IP67/IP69K | |
| Ambient Temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | |
| Contacts Type | Solder version | |
| Rated current | 4A | |
| Voltage | 250V | |
| Wire gauge/size | 22AWGx1Pair+24AWGx1Pair | |
| Cable jacket | PUR/PVC | |
| Cable length | Customized Cable Length | |

## Product Features

- 2-Pair DeviceNet jacket cable
- M12,A-coded
- Double ends
- Suitable for drag chain
- RoHS compliant

## Product Advantage

- Used for industrial equipment telecommunication
- Improvement of process data management
- Cost-saving Installation
- Low cost but high productivity
- For open internet standards and agreements
- Standardized interfaces

## Application Fields

- Automotive Industry
- Mechanical Engineering
- Plant Installation Engineering
- Automation Control
- Tool Room

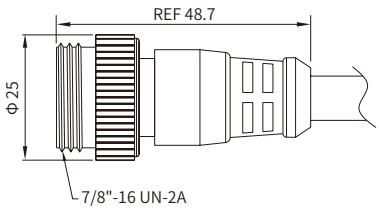
## Cable Construction

- Permanently flexible control cable
- Construction: 2Pairs+Shield(AL)+Drain+Braids
- Conductor: Tinned copper
- Gray jacket

## Part No.

| Pairs | 1P | |
|---|---|---|
| AWG | 22AWG+24AWG | 18AWG+20AWG |
| Cable length 2m | M12MSAHD05ST-DBS1x2m-M12FSAHD05ST | M12MSAHD05ST-DBS2x2m-M12FSAHD05ST |
| Cable length 5m | M12MSAHD05ST-DBS1x5m-M12FSAHD05ST | M12MSAHD05ST-DBS2x5m-M12FSAHD05ST |
| Cable length 7m | M12MSAHD05ST-DBS1x7m-M12FSAHD05ST | M12MSAHD05ST-DBS2x7m-M12FSAHD05ST |
| Pairs | 1P | |
| AWG | 16AWG+18AWG | 15AWG+18AWG |
| Cable length 2m | M12MSAHD05ST-DBS3x2m-M12FSAHD05ST | M12MSAHD05ST-DBS4x2m-M12FSAHD05ST |
| Cable length 5m | M12MSAHD05ST-DBS3x5m-M12FSAHD05ST | M12MSAHD05ST-DBS4x5m-M12FSAHD05ST |
| Cable length 7m | M12MSAHD05ST-DBS3x7m-M12FSAHD05ST | M12MSAHD05ST-DBS4x7m-M12FSAHD05ST |

## DeviceNet Cable 7/8" Male Connector



**RoHS**

## Specifications

| Contacts | 5(Male) |
|---|---|
| Pin layout | |
| Connector Series | 7/8" |
| Contact No. | 5 Pins |
| Contacts Material | Brass with gold plated |
| Nut/Screw Material | Aluminum anodized black |
| Connector Insert | TPU |
| Over-molding | TPU |
| Wire Color | 1Pair(Red/Black); 1Pair(Blue/White) |
| Jacket Color | Gray |
| Shielding | Unavailable |
| IP Rating | IP67/IP69K |
| Ambient Temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) |
| Contacts Type | Crimp version |
| Rated current | 8A |
| Voltage | 300V |
| Wire gauge/size | 18AWGx1Pair+20AWGx1Pair / 15AWGx1Pair+18AWGx1Pair /16AWGx1Pair+18AWGx1Pair |
| Cable length | Customized Cable Length |

## Product Features

- 2-Pair DeviceNet jacket cable
- 7/8" 5 Pins
- Single end with customized cable end process
- Suitable for drag chain
- RoHS compliant

## Product Advantage

- Used for industrial equipment telecommunication
- Improvement of process data management
- Cost-saving Installation
- Low cost but high productivity
- For open internet standards and agreements
- Standardized interfaces

## Application Fields

- Automotive Industry
- Mechanical Engineering
- Plant Installation Engineering
- Automation Control
- Tool Room

## Cable Construction

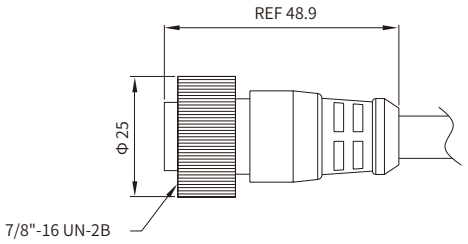
- Permanently flexible control cable
- Construction: 2Pairs+Shield(AL)+Drain+Braids
- Conductor: Tinned copper
- Gray jacket

## Part No.

| Pairs | 1P | | | |
|---|---|---|---|---|
| AWG | 22AWG+24AWG | 18AWG+20AWG | 16AWG+18AWG | 15AWG+18AWG |
| Cable length 2m | MINI-C05MST-M-DBS1x2m | MINI-C05MST-M-DBS2x2m | MINI-C05MST-M-DBS3x2m | MINI-C05MST-M-DBS4x2m |
| Cable length 5m | MINI-C05MST-M-DBS1x5m | MINI-C05MST-M-DBS2x5m | MINI-C05MST-M-DBS3x5m | MINI-C05MST-M-DBS4x5m |
| Cable length 7m | MINI-C05MST-M-DBS1x7m | MINI-C05MST-M-DBS2x7m | MINI-C05MST-M-DBS3x7m | MINI-C05MST-M-DBS4x7m |

# BUS Cables

## DeviceNet Cable 7/8" Female Connector



**RoHS**

## Specifications

| Contacts | 5(Female) |
|---|---|
| Pin layout | |
| Connector Series | 7/8" |
| Contact No. | 5 Pins |
| Contacts Material | Brass with gold plated |
| Nut/Screw Material | Aluminum anodized black |
| Connector Insert | TPU |
| Over-molding | TPU |
| Wire Color | 1Pair(Red/Black); 1Pair(Blue/White) |
| Jacket Color | Gray |
| Shielding | Unavailable |
| IP Rating | IP67/IP69K |
| Ambient Temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) |
| Contacts Type | Crimp version |
| Rated current | 8A |
| Voltage | 300V |
| Wire gauge/size | 18AWGx1Pair+20AWGx1Pair / 15AWGx1Pair+18AWGx1Pair /16AWGx1Pair+18AWGx1Pair |
| Cable length | Customized Cable Length |

## Product Features

- 2-Pair DeviceNet jacket cable
- 7/8" 5 Pins
- Single end with customized cable end process
- Suitable for drag chain
- RoHS compliant

## Product Advantage

- Used for industrial equipment telecommunication
- Improvement of process data management
- Cost-saving Installation
- Low cost but high productivity
- For open internet standards and agreements
- Standardized interfaces

## Application Fields

- Automotive Industry
- Mechanical Engineering
- Plant Installation Engineering
- Automation Control
- Tool Room

## Cable Construction

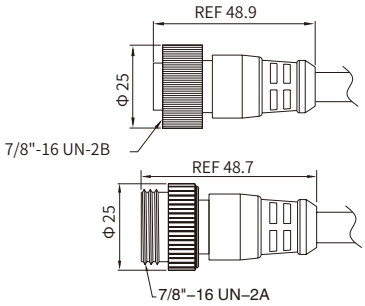
- Permanently flexible control cable
- Construction: 2Pairs+Shield(AL)+Drain+Braids
- Conductor: Tinned copper
- Gray jacket

## Part No.

| Pairs | 1P | | | |
|---|---|---|---|---|
| AWG | 22AWG+24AWG | 18AWG+20AWG | 16AWG+18AWG | 15AWG+18AWG |
| Cable length 2m | MINI-C05FST-M-DBS1x2m | MINI-C05FST-M-DBS2x2m | MINI-C05FST-M-DBS3x2m | MINI-C05FST-M-DBS4x2m |
| Cable length 5m | MINI-C05FST-M-DBS1x5m | MINI-C05FST-M-DBS2x5m | MINI-C05FST-M-DBS3x5m | MINI-C05FST-M-DBS4x5m |
| Cable length 7m | MINI-C05FST-M-DBS1x7m | MINI-C05FST-M-DBS2x7m | MINI-C05FST-M-DBS3x7m | MINI-C05FST-M-DBS4x7m |

# Devicenet Cable 7/8" Male Connector To Female Connector

RoHS



## Specifications

| Contacts | 5(Male) | 5(Female) |
|---|---|---|
| Pin layout | | |
| Connector Series | 7/8" | |
| Contact No. | 5 Pins | |
| Contacts Material | Brass with gold plated | |
| Nut/Screw Material | Aluminum anodized black | |
| Connector Insert | TPU | |
| Over-molding | TPU | |
| Wire Color | 1Pair(Red/Black); 1Pair(Blue/White) | |
| Jacket Color | Gray | |
| Shielding | Unavailable | |
| IP Rating | IP67/IP69K | |
| Ambient Temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | |
| Contacts Type | Crimp version | |
| Rated current | 8A | |
| Voltage | 300V | |
| Wire gauge/size | 18AWGx1Pair+20AWGx1Pair / 15AWGx1Pair+18AWGx1Pair /16AWGx1Pair+18AWGx1Pair | |
| Cable length | Customized Cable Length | |

## Product Features

- 2-Pair DeviceNet jacket cable
- 7/8" 5 Pins
- Single end with customized cable end process
- Suitable for drag chain
- RoHS compliant

## Product Advantage

- Used for industrial equipment telecommunication
- Improvement of process data management
- Cost-saving Installation
- Low cost but high productivity
- For open internet standards and agreements
- Standardized interfaces

## Application Fields

- Automotive Industry
- Mechanical Engineering
- Plant Installation Engineering
- Automation Control
- Tool Room

## Cable Construction

- Permanently flexible control cable
- Construction: 2Pairs+Shield(AL)+Drain+Braids
- Conductor: Tinned copper
- Gray jacket

## Part No.

| Pairs | 1P | |
|---|---|---|
| AWG | 22AWG+24AWG | 18AWG+20AWG |
| Cable length 2m | MINI-C05MST-M-DBS1x2m-MINI-C05FST-M | MINI-C05MST-M-DBS2x2m-MINI-C05FST-M |
| Cable length 5m | MINI-C05MST-M-DBS1x5m-MINI-C05FST-M | MINI-C05MST-M-DBS2x5m-MINI-C05FST-M |
| Cable length 7m | MINI-C05MST-M-DBS1x7m-MINI-C05FST-M | MINI-C05MST-M-DBS2x7m-MINI-C05FST-M |
| Pairs | 1P | |
| AWG | 16AWG+18AWG | 15AWG+18AWG |
| Cable length 2m | MINI-C05MST-M-DBS3x2m-MINI-C05FST-M | MINI-C05MST-M-DBS4x2m-MINI-C05FST-M |
| Cable length 5m | MINI-C05MST-M-DBS3x5m-MINI-C05FST-M | MINI-C05MST-M-DBS4x5m-MINI-C05FST-M |
| Cable length 7m | MINI-C05MST-M-DBS3x7m-MINI-C05FST-M | MINI-C05MST-M-DBS4x7m-MINI-C05FST-M |

# BUS cables

## Industrial EtherNet
### cables & connectors

Industrial EtherNet is a quickly developing network technology. The reason for the acceptance and popularity not only lies in the integrated networking for a company, but also in the effect that it forms the basic technology for the world's largest network-the internet. EtherNet with the worldwide accepted TCP/IP (Transmission Control Protocol/Internet Protocol) will be the future connection to the well established field bus or sensor / actuator level. Generally, the following transmission rates are divided into:

- SHARED ETHERNET = 10 Mbit/s
- FAST ETHERNET = 100 Mbit/s (CAT 5 requirements)
- GIGABIT ETHERNET = 1000 Mbit/s (1 Gbit/s)

Finecables developed a variety of cable solutions due to the strong innovative force of automation industry. Depending on the applications, we are able to offer today CAT 5e, CAT 6A and CAT 7 cable solutions for flexible and continuous flexible use, for chemical and thermal stress as well as special cable constructions for reeling purpose and robot operation.

## Industrial EtherNet Cables (Unshielded CAT 5 or CAT 5E)

RoHS

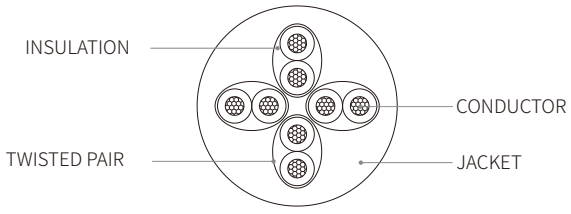
## Cable Features

- Halogen-free PUR jacket available
- Foaming insulation wires
- The transmission bandwidth is 100MHz

## Detailed Specifications

| Structure | Items | Unit | Specifications | |
|---|---|---|---|---|
| Conductor | AWG No. | AWG | 24AWGx2P | 24AWGx4P |
| | Material | - | Bare Copper | |
| Wire Insulation | Material | - | HD-PE | |
| | Color | - | Blue&White/Blue;Orange&White/Orange; Green&Green/White;Brown&Brown/White | |
| Jacket | Material | - | PVC/PUR | |
| | Color | - | Gray/Black | |
| Electrical Capability | Rated Temp | °C | 60°C | |
| | Rated Voltage | V | 30V | |
| | Conductor Resistance | Ω/KM20°C | 24AWG:94.2Max | |
| | Insulation Resistance | MΩ/KM20°C | 100 Min | |
| | Impedance | Ω | 100+/-15% | |
| | Flame Rating | - | FT2 | |

## Cable Construction




## Technical Data

- Test Voltage: AC 1000V/min
- Minimum Bending Radius: 12xd
- RoHS Compliant
- Temperature Range:
  -40°C~+80°C(Fixed Installation)
  -25°C~+80°C(Flexible Installation)

## Advantage & Application

- From sensor/actuator to internet seamless telecommunication
- For extreme industrial EtherNET environment
- Used for EtherCAT and EtherNET/IP system
- For fixed/flexble installation cables

## Part No.

| AWG | 24AWG | |
|---|---|---|
| Pairs | 1P | 2P |
| Cable length 2m | IBS5e1x2m | IBS5e2x2m |
| Cable length 5m | IBS5e1x5m | IBS5e2x5m |
| Cable length 7m | IBS5e1x7m | IBS5e2x7m |

# BUS Cables

## Industrial EtherNet Cables (Shielded CAT 5E)

RoHS

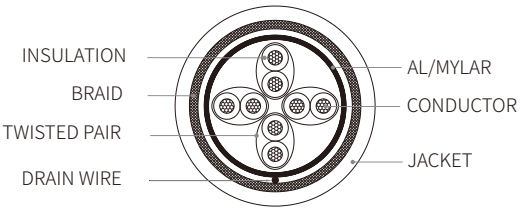
## Cable Features

- High quality double shielding ensures high reliability of data transmission under electromagnetic interference
- Foaming insulation wires
- Halogen-free PUR jacket available
- 2-pair or 4-Pair wires
- The transmission bandwidth is 100MHz

## Detailed Specifications

| Structure | Items | Unit | Specifications | | | |
|---|---|---|---|---|---|---|
| Conductor | AWG No. | AWG | 24AWGx2P | 24AWGx4P | 26AWGx2P | 26AWGx4P |
| | Material | - | Bare Copper | | | |
| Wire Insulation | Material | - | HD-PE | | | |
| | Color | - | Blue&White/Blue;Orange&White/Orange; Green&Green/White;Brown&Brown/White | | | |
| Assembly | Drain Wire | mm | 24AWG | | 26AWG | |
| | AL/Mylar | mm | >100% | | | |
| | Braids | mm | >65% | | | |
| Jacket | Material | - | PVC/PUR | | | |
| | Color | - | Gray/Black | | | |
| Electrical Capability | Rated Temp | °C | 60°C | | | |
| | Rated Voltage | V | 30V | | | |
| | Conductor Resistance | Ω/KM20°C | 24AWG:94.2Max | | 26AWG:150Max | |
| | Insulation Resistance | MΩ/KM20°C | 100 Min | | | |
| | Impedance | Ω | 100+/-15% | | | |
| | Flame Rating | - | FT2 | | | |

## Cable Construction




## Technical Data

- Test Voltage: AC 1000V/min
- Minimum Bending Radius: 12xd
- RoHS Compliant
- Temperature Range:
  -40°C~+80°C(Fixed Installation)
  -25°C~+80°C(Flexible Installation)

## Advantage & Application

- From sensor/actuator to internet seamless telecommunication
- For extreme industrial EtherNET environment
- Used for EtherCAT and EtherNET/IP system
- For fixed/flexble installation cables

## Part No.

| AWG | 24AWG | | 26AWG | |
|---|---|---|---|---|
| Pairs | 2P | 4P | 2P | 4P |
| Cable length 2m | IBS5eS1x2m | IBS5eS2x2m | IBS5eS3x2m | IBS5eS4x2m |
| Cable length 5m | IBS5eS1x5m | IBS5eS2x5m | IBS5eS3x5m | IBS5eS4x5m |
| Cable length 7m | IBS5eS1x7m | IBS5eS2x7m | IBS5eS3x7m | IBS5eS4x7m |

# BUS Cables

## Industrial EtherNet Cables (Unshielded CAT 6 or CAT 6A)

RoHS

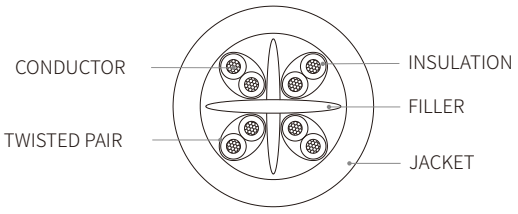
## Cable Features

- Solid conductor
- 2-pair or 4-Pair wires
- Halogen-free PUR jacket available
- Bandwidth is also expanded to 250MHz
- Foaming insulation wires

## Detailed Specifications

| Structure | Items | Unit | Specifications | |
|---|---|---|---|---|
| Conductor | AWG No. | AWG | 24AWGx2P | 24AWGx4P |
| | Material | - | Bare Copper | |
| Wire Insulation | Material | - | HD-PE | |
| | Color | - | Blue&White/Blue;Orange&White/Orange; Green&Green/White;Brown&Brown/White | |
| Assembly | Filler | - | PE | |
| Jacket | Material | - | PVC/PUR | |
| | Color | - | Gray/Black | |
| Electrical Capability | Rated Temp | ℃ | 60°C | |
| | Rated Voltage | V | 30V | |
| | Conductor Resistance | Ω/KM20°C | 24AWG:94.2Max | |
| | Insulation Resistance | MΩ/KM20°C | 100 Min | |
| | Impedance | Ω | 100+/-15% | |
| | Flame Rating | - | FT2 | |

## Cable Construction




## Technical Data

- Test Voltage: AC 1000V/min
- Minimum Bending Radius: 12xd
- RoHS Compliant
- Temperature Range:
  -40°C~+80°C(Fixed Installation)
  -20°C~+70°C(Flexible Installation)

## Advantage & Application

- From sensor/actuator to internet seamless telecommunication
- Powerful shielded performance, anti-interference
- For extreme industrial EtherNET environment
- Used for EtherCAT and EtherNET/IP system
- For fixed/flexble installation cables

## Part No.

| AWG | 24AWG | |
|---|---|---|
| Pairs | 2P | 4P |
| Cable length 2m | IBS6A1x2m | IBS6A2x2m |
| Cable length 5m | IBS6A1x5m | IBS6A2x5m |
| Cable length 7m | IBS6A1x7m | IBS6A2x7m |

# BUS Cables

## Industrial EtherNet Cables (Shielded CAT 6A)

RoHS

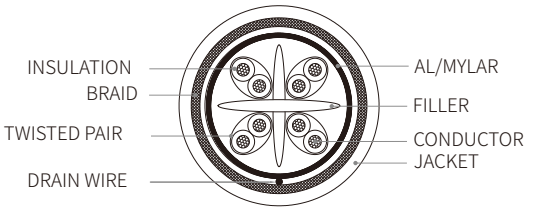
## Cable Features

- High quality double shielding ensures high reliability of data transmission under electromagnetic interference
- PE insulation wires
- Oil resistant sheathing enables the cable to be used in industrial environments
- 4-Pair wires
- Bandwidth is also expanded to 250MHz

## Detailed Specifications

| Structure | Items | Unit | Specifications | |
|---|---|---|---|---|
| Conductor | AWG No. | AWG | 24AWGx4P | 26AWGx4P |
| | Material | - | Bare Copper | |
| Wire Insulation | Material | - | HD-PE | |
| | Color | - | Blue&White/Blue;Orange&White/Orange; Green&Green/White;Brown&Brown/White | |
| Assembly | Drain Wire | mm | 24AWG | 26AWG |
| | Filler | - | PE | |
| | AL/Mylar | mm | >100% | |
| | Braids | mm | >65% | |
| Jacket | Material | - | PVC/PUR | |
| | Color | - | Gray/Black | |
| Electrical Capability | Rated Temp | ℃ | 60°C | |
| | Rated Voltage | V | 30V | |
| | Conductor Resistance | Ω/KM20°C | 24AWG:94.2Max | 26AWG:150Max |
| | Insulation Resistance | MΩ/KM20°C | 100 Min | |
| | Impedance | Ω | 100+/-15% | |
| | Flame Rating | - | FT2 | |

## Cable Construction




## Technical Data

- Test Voltage: AC 1000V/min
- Minimum Bending Radius: 12xd
- RoHS Compliant
- Temperature Range:
  -40°C~+80°C(Fixed Installation)
  -25°C~+80°C(Flexible Installation)

## Advantage & Application

- From sensor/actuator to internet seamless telecommunication
- Shielding structures prevent electromagnetic interference
- For extreme industrial EtherNET environment
- Used for EtherCAT and EtherNET/IP system
- For fixed/flexble installation cables

## Part No.

| Pairs | 4P | |
|---|---|---|
| AWG | 24AWG | 26AWG |
| Cable length 2m | IBS6AS1x2m | IBS6AS2x2m |
| Cable length 5m | IBS6AS1x5m | IBS6AS2x5m |
| Cable length 7m | IBS6AS1x7m | IBS6AS2x7m |

# BUS Cables

## Industrial EtherNet Cables (CAT 7)

RoHS

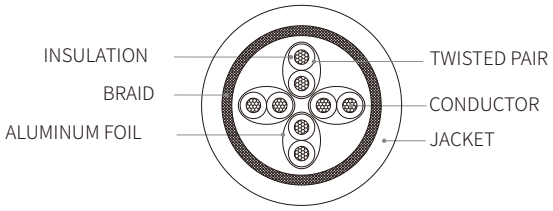
## Cable Features

- Solid conductor
- Halogen-free PUR jacket available
- Foaming insulation wires
- 4-pair wire1,each pair of lines has a shielding layer, four pairs of lines together and a large common shielding layer

## Detailed Specifications

| Structure | Items | Unit | Specifications | |
|---|---|---|---|---|
| Conductor | AWG No. | AWG | 24AWGx2P | 24AWGx4P |
| | Material | - | Bare Copper | |
| Wire Insulation | Material | - | HD-PE | |
| | Color | - | Blue&White/Blue;Orange&White/Orange; Green&Green/White;Brown&Brown/White | |
| Assembly | AL | mm | >100% | |
| | Braids | mm | >65% | |
| Jacket | Material | - | PVC/PUR | |
| | Color | - | Gray/Black | |
| Electrical Capability | Rated Temp | °C | 60°C | |
| | Rated Voltage | V | 30V | |
| | Conductor Resistance | Ω/KM20°C | 24AWG:94.2Max | 26AWG:150Max |
| | Insulation Resistance | MΩ/KM20°C | 100 Min | |
| | Impedance | Ω | 100+/-15% | |
| | Flame Rating | - | FT2 | |

## Cable Construction




## Technical Data

- Test Voltage: AC 1000V/min
- Minimum Bending Radius: 12xd
- RoHS Compliant
- Temperature Range:
  -40°C~+80°C(Fixed Installation)
  -25°C~+80°C(Flexible Installation)

## Advantage & Application

- From sensor/actuator to internet seamless telecommunication
  Industrial Ethernet from 100Mbit/s to 10 Gbit/s
- For extreme industrial EtherNET environment
- Used for EtherCAT and EtherNET/IP system
- Suitable for machine, tool, equipment, device,
- electric appliance and control cabinet wiring system

## Part No.

| AWG | 24AWG | |
|---|---|---|
| Pairs | 2P | 4P |
| Cable length 2m | IBS71x2m | IBS72x2m |
| Cable length 5m | IBS71x5m | IBS72x5m |
| Cable length 7m | IBS71x7m | IBS72x7m |

# BUS Cables

## Industrial EtherNet Cables

RoHS

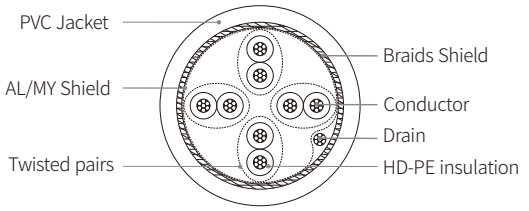
## Cable Features

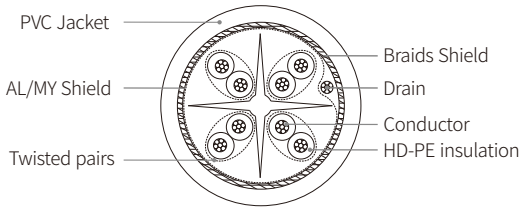
- High quality and double shielded performance for data transmission in signal interference
- Halogen-free PUR jacket available
- 2-pair or 4-Pair wires

## Detailed Specifications

| Structure | Items | Unit | Specifications | | | |
|---|---|---|---|---|---|---|
| Conductor | AWG No. | AWG | 26AWGx2P | 24AWGx2P | 26AWGx4P | 24AWGx4P |
| | Material | - | Bare Copper | | | |
| | Core wire | Pairs | 2P | 2P | 4P | 4P |
| Wire Insulation | Material | - | HD-PE | | | |
| | Color | - | Orange/White&Orange; Green/White&Green | | Blue&White/Blue;Orange&White/Orange; Green&Green/White;Brown&Brown/White; | |
| Assembly | Drain Wire | mm | 26AWGx2P | 26AWGx2P | 26AWGx4P | 24AWGx4P |
| | Aluminum | mm | >100% | | | |
| | Braids | mm | >65% | | | |
| Jacket | Material | - | PVC/PUR | | | |
| | Color | - | Gray | | | |
| | Over Diameter | mm | 5.0 | 5.5 | 6.0 | 6.8 |
| Electrical Capability | Rated Temp | °C | 60°C | | | |
| | Rated Voltage | V | 30V | | | |
| | Conductor Resistance | Ω/KM20°C | 26AWG:150Max 24AWG:94.2Max | | | |
| | Insulation Resistance | MΩ/KM20°C | 100 Min | | | |
| | Impedance | Ω | 100+/-15% | | | |
| | Flame Rating | - | FT2 | | | |

## Cable Construction




## Technical Data

- Test Voltage: AC 1000V/min
- Minimum Bending Radius: 12xOD
- RoHS Compliant
- Temperature Range:
  -40°C~+80°C(Fixed Installation)
  -25°C~+80°C(Flexible Installation)

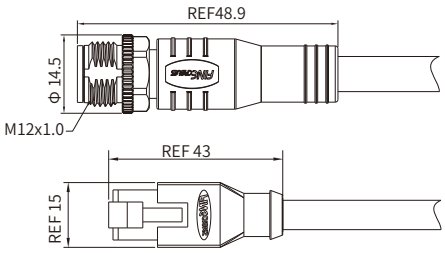
## Advantage & Application

- From sensor/actuator to internet seamless telecommunication
- Powerful shielded performance, anti-interference
- For extreme industrial EtherNet environment
- Used for Ether CAT and EtherNet/IP system
- For fixed/flexible installation cables
- Easy identification of cable faults

## Part No.

| AWG | 24AWG | | 26AWG | |
|---|---|---|---|---|
| Pairs | 2P | 4P | 2P | 4P |
| Cable length 2m | IBS1x2m | IBS5eS2x2m | IBS3x2m | IBS4x2m |
| Cable length 5m | IBS1x5m | IBS5eS2x5m | IBS3x5m | IBS4x5m |
| Cable length 7m | IBS1x7m | IBS5eS2x7 | IBS3x7m | IBS4x7m |

# Industrial EtherNet Cable: M12 Male Connector to RJ45 Male Connector




Wirelist

| | | |
|---|---|---|
| 1 | White/Orange | 1 |
| 2 | Orange | 2 |
| 3 | White/Green | 3 |
| 4 | Green | 6 |
| 5 | White/Brown | 7 |
| 6 | Brown | 8 |
| 7 | White/Blue | 5 |
| 8 | Blue | 4 |
| Shell | Braids | Shell |

**RoHS**

## Specifications

| Contacts | M12 X-Coding 8(Male) | RJ45 8(Male) |
|---|---|---|
| Pin layout | | |
| Connector Series | M12; RJ45 | |
| M12 Coding | X | |
| Contacts Material | Brass with gold plated | |
| Nut/Screw Material | Zinc alloy with nickel plated | |
| M12 Connector Insert | TPU; PA | |
| Over-molding | TPU | |
| Shielding | Available | |
| IP Rating | IIP67/IP69K(M12 end) | |
| Ambient Temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | |
| Contacts Type | Crimp version | |
| Rated current | 0.5A | |
| Voltage | 30V | |
| Wire gauge/size | 24AWGx4Pair+26AWGx4Pair | |
| Cable jacket | PUR/PVC | |
| Cable length | Customized Cable Length | |

## Product Features

- 4-pair jacket cable
- Suitable Connectors: M12 X-coded; RJ45
- Double ends
- RoHS compliant

## Product Advantage

- Used for industrial equipment telecommunication
- For flexible installation
- Powerful shielded performance, anti-interference
- Low cost but high productivity

## Application Fields

- Automation Control
- Mechanical Engineering
- Plant Installation Engineering

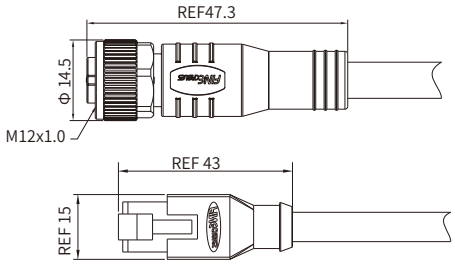
## Cable Construction

- Construction: 4Pairs + Shield(AL) + Drain + Braids
- Conductor: Bare copper
- Black or gray jacket

## Part No.

| Pairs | 4P | |
|---|---|---|
| AWG | 24AWG | 26AWG |
| Cable length 2m | MA12MSXHD08ST-IBSXXx2m-RJ45SWM08STMF | MA12MSXHD08ST-IBSXXx2m-RJ45SWM08STMF |
| Cable length 5m | MA12MSXHD08ST-IBSXXx2m-RJ45SWM08STMF | MA12MSXHD08ST-IBSXXx2m-RJ45SWM08STMF |
| Cable length 7m | MA12MSXHD08ST-IBSXXx2m-RJ45SWM08STMF | MA12MSXHD08ST-IBSXXx2m-RJ45SWM08STMF |

## Industrial EtherNet Cable: M12 Female Connector to RJ45 Male Connector




Wirelist

| | | |
|---|---|---|
| 1 | White/Orange | 1 |
| 2 | Orange | 2 |
| 3 | White/Green | 3 |
| 4 | Green | 6 |
| 5 | White/Brown | 7 |
| 6 | Brown | 8 |
| 7 | White/Blue | 5 |
| 8 | Blue | 4 |
| Shell | Braids | Shell |

**RoHS**

## Specifications

| Contacts | M12 X-Coding 8(Female) | RJ45 8(Male) |
|---|---|---|
| Pin layout | | |
| Connector Series | M12; RJ45 | |
| M12 Coding | X | |
| Contacts Material | Brass with gold plated | |
| Nut/Screw Material | Zinc alloy with nickel plated | |
| M12 Connector Insert | TPU; PA | |
| Over-molding | TPU | |
| Shielding | Available | |
| IP Rating | IIP67/IP69K(M12 end) | |
| Ambient Temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | |
| Contacts Type | Crimp version | |
| Rated current | 0.5A | |
| Voltage | 30V | |
| Wire gauge/size | 24AWGx4Pair+26AWGx4Pair | |
| Cable jacket | PUR/PVC | |
| Cable length | Customized Cable Length | |

## Product Features

- 4-pair jacket cable
- Suitable Connectors: M12 X-coded; RJ45
- Double ends
- RoHS compliant

## Product Advantage

- Used for industrial equipment telecommunication
- For flexible installation
- Powerful shielded performance, anti-interference
- Low cost but high productivity

## Application Fields

- Automation Control
- Mechanical Engineering
- Plant Installation Engineering

## Cable Construction

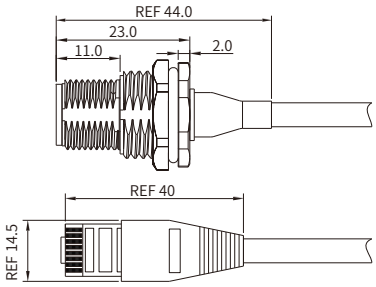
- Construction: 4Pairs + Shield(AL) + Drain + Braids
- Conductor: Bare copper
- Black or gray jacket

## Part No.

| Pairs | 4P | |
|---|---|---|
| AWG | 24AWG | 26AWG |
| Cable length 2m | MA12FSXHD08ST-IBSXXx2m-RJ45SWM08STMF | MA12FSXHD08ST-IBSXXx2m-RJ45SWM08STMF |
| Cable length 5m | MA12FSXHD08ST-IBSXXx2m-RJ45SWM08STMF | MA12FSXHD08ST-IBSXXx2m-RJ45SWM08STMF |
| Cable length 7m | MA12FSXHD08ST-IBSXXx2m-RJ45SWM08STMF | MA12FSXHD08ST-IBSXXx2m-RJ45SWM08STMF |

## Industrial EtherNet Cable: M12 Male Connector to RJ45 Male Connector

RoHS



## Specifications

| Contacts | M12 D-Coding 4(Male) | RJ45 8(Male) |
|---|---|---|
| Pin layout | | |
| Connector Series | M12; RJ45 | |
| M12 Coding | D | |
| Contacts Material | Brass with gold plated | |
| Nut/Screw Material | Zinc alloy with nickel plated/Nickel with plated brass | |
| M12 Connector Insert | TPU; PA | |
| Over-molding | TPU | |
| Shielding | Available | |
| IP Rating | IIP67/IP69K(M12 end) | |
| Ambient Temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | |
| Contacts Type | Solder/Crimp version | |
| Rated current | 1.5A | |
| Voltage | 30V | |
| Wire gauge/size | 24AWGx4Pair+26AWGx4Pair | |
| Cable jacket | PUR/PVC | |
| Cable length | Customized Cable Length | |

## Product Features

- 2-pair jacket cable
- Suitable Connectors: M12 D-coded; RJ45
- Double ends
- RoHS compliant

## Product Advantage

- Used for industrial equipment telecommunication
- For flexible installation
- Powerful shielded performance, anti-interference
- Low cost but high productivity

## Application Fields

- Automation Control
- Mechanical Engineering
- Plant Installation Engineering

## Cable Construction

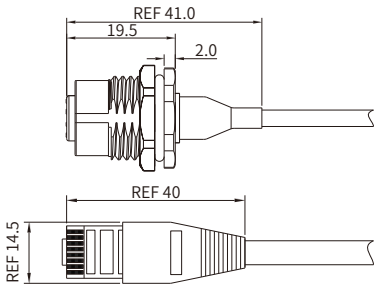
- Construction: 2Pairs + Shield(AL) + Drain + Braids
- Conductor: Bare copper
- Black or gray jacket

## Part No.

| Pairs | 4P | |
|---|---|---|
| AWG | 24AWG | 26AWG |
| Cable length 2m | MA12MSDHD08ST-IBSXXx2m-RJ45SWM08STMF | MA12MSDHD08ST-IBSXXx2m-RJ45SWM08STMF |
| Cable length 5m | MA12MSDHD08ST-IBSXXx2m-RJ45SWM08STMF | MA12MSDHD08ST-IBSXXx2m-RJ45SWM08STMF |
| Cable length 7m | MA12MSDHD08ST-IBSXXx2m-RJ45SWM08STMF | MA12MSDHD08ST-IBSXXx2m-RJ45SWM08STMF |

## Industrial EtherNet Cable: M12 Female Connector to RJ45 Male Connector

RoHS




Wirelist

| | | |
|---|---|---|
| 1 | Orange/White | 1 |
| 3 | Orange | 2 |
| 2 | Green/White | 3 |
| 4 | Green | 6 |
| Shell | Shield | Shell |

## Specifications

| Contacts | M12 D-Coding 4(Female) | RJ45 8(Male) |
|---|---|---|
| Pin layout | | |
| Connector Series | M12; RJ45 | |
| M12 Coding | D | |
| Contacts Material | Brass with gold plated | |
| Nut/Screw Material | Zinc alloy with nickel plated/Nickel with plated brass | |
| M12 Connector Insert | TPU; PA | |
| Over-molding | TPU | |
| Shielding | Available | |
| IP Rating | IIP67/IP69K(M12 end) | |
| Ambient Temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | |
| Contacts Type | Solder/Crimp version | |
| Rated current | 1.5A | |
| Voltage | 30V | |
| Wire gauge/size | 24AWGx4Pair+26AWGx4Pair | |
| Cable jacket | PUR/PVC | |
| Cable length | Customized Cable Length | |

## Product Features

- 2-pair jacket cable
- Suitable Connectors: M12 D-coded; RJ45
- Double ends
- RoHS compliant

## Product Advantage

- Used for industrial equipment telecommunication
- For flexible installation
- Powerful shielded performance, anti-interference
- Low cost but high productivity

## Application Fields

- Automation Control
- Mechanical Engineering
- Plant Installation Engineering

## Cable Construction

- Construction: 2Pairs + Shield(AL) + Drain + Braids
- Conductor: Bare copper
- Black or gray jacket

## Part No.

| Pairs | 4P | |
|---|---|---|
| AWG | 24AWG | 26AWG |
| Cable length 2m | MA12FSDHD08ST-IBSXXx2m-RJ45SWM08STMF | MA12FSDHD08ST-IBSXXx2m-RJ45SWM08STMF |
| Cable length 5m | MA12FSDHD08ST-IBSXXx2m-RJ45SWM08STMF | MA12FSDHD08ST-IBSXXx2m-RJ45SWM08STMF |
| Cable length 7m | MA12FSDHD08ST-IBSXXx2m-RJ45SWM08STMF | MA12FSDHD08ST-IBSXXx2m-RJ45SWM08STMF |

# Plenum Cables

## Plenum
### cables & connectors

At Finecables, you can find plenum multi-pair or multi-conductor plenum cables. Meanwhile, PVC or PET/PTFE are often used as the coating on the jacket and insulation that gives a cable its plenum rating.

Flammability:
Plenum cable is jacket with a fire-retardant plastic gray jacket of a low-smoke PVC with wire insulation of FEP. The UL equivalent standard is the UL-910 standard and meets FT6, which is made up of two primary tests, cable burn properties and smoke density.

Cable stiffness:
Plenum-rated cables are restricted to only allow certain chemicals for manufacture of the wire insulation and cable sheath. Typically this results in reduced flexibility of plastic cables, making it stiff and hard to bend.

Application:
Plenum-rated Type CMP cables connectors can be installed above a suspended ceiling or below a raised floor that is used for environmental air . This cable connectors are used for not only environmental air, but also Alarm and Security Cable Applications.

# Plenum Cables

## Plenum Cable

RoHS

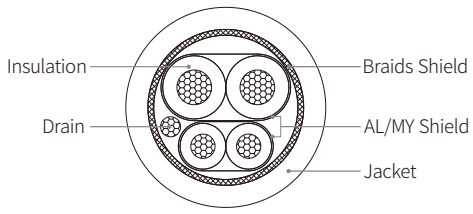
## Cable Features

- Resist flame and low smoke emissions
- Non-toxic fumes emitted
- UL/CSA certified

## Detailed Specifications

| Structure | Items | Unit | Specifications | | | |
|---|---|---|---|---|---|---|
| Conductor | AWG No. | AWG | 24AWG | 20AWG | 18AWG | 14AWG |
| | Material | - | Bare Copper | | Bare Copper | |
| | Core wire | Pairs | 1P | | 1P | |
| Wire Insulation | Material | - | FEP insulation | | FEP insulation | |
| | Color | - | 1.Blue , 2.White | 3. Red , 4.Black | 1.Blue , 2.White | 3. Red , 4.Black |
| Assembly | Drain Wire | mm | 24AWG | | 18AWG | |
| | Aluminum | mm | >100% | | >100% | |
| | Braids | mm | >65% | | >65% | |
| Jacket | Material | - | PVC Jacket(Grade CMP) | | PVC Jacket(Grade CMP) | |
| | Color | - | Gray | | Gray | |
| | Over Diameter | mm | 6.35+/-0.25 | | 10.10+/-0.3 | |
| Electrical Capability | Rated Temp | °C | -20°C to +75°C | | -20°C to +75°C | |
| | Rated Voltage | V | 300V | | 300V | |
| | Conductor Resistance | Ω/KM20°C | 24AWG: 94.2Max | 20AWG: 36.7Max | 18AWG: 23.2Max | 14AWG: 8.96Max |
| | Insulation Resistance | MΩ/KM20°C | 10 Min | | 10 Min | |
| | Impedance | Ω | 120+/-15% | / | 120+/-15% | / |
| | Flame Rating | - | FT6 | | FT6 | |

## Cable Construction




## Technical Data

- Test Voltage: 300Volts
- FEP insulation
- PVC jacket(Grade CMP )
- RoHS compliant
- UL CMP FT6
- Temperature Range:
  -40°C~+75°C(Fixed Installation)
  -25°C~+80°C(Flexible Installation)

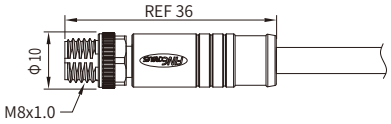
## Advantage & Application

- Adequate fire-resistant and low smoke-producing characteristics
- Reduced flexibility & stiff and hard to bend.
- Suitable for building air for heating and cooling systems

## Part No.

| Pairs | 1P | | | |
|---|---|---|---|---|
| AWG | 24AWG | 20AWG | 18AWG | 14AWG |
| Cable length 2m | CMP1x2m | CMP2x2m | CMP3x2m | CMP4x2m |
| Cable length 5m | CMP1x5m | CMP2x5m | CMP3x5m | CMP4x5m |
| Cable length 7m | CMP1x7m | CMP2x7m | CMP3x7m | CMP4x7m |

## Plenum Cable: M8 Male Connector With Cable




Wirelist

| | |
|---|---|
| 1 | Shield |
| 2 | Red |
| 3 | Black |
| 4 | White |
| 5 | Blue |

**RoHS**

## Specifications

| Contacts | 5(Male) |
|---|---|
| Pin layout | |
| Connector Series | M8 |
| Contact No. | 5 Pins |
| Coding | B |
| Contacts Material | Brass with gold plated |
| Nut/Screw Material | Zinc alloy with nickel plated |
| Connector Insert | TPU |
| Over-molding | TPU |
| Wire Color | 1Pair(Red/Black); 1Pair(Blue/White) |
| Jacket Color | Gray |
| Shielding | Available/Unavailable |
| IP Rating | IP67/IP69K |
| Ambient Temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) |
| Contacts Type | Solder version |
| Rated current | 3A |
| Voltage | 30V |
| Wire gauge/size | 20AWGx1Pair+24AWGx1Pair |
| Cable length | Customized Cable Length |

## Product Features

- 2-Pair jacket cable
- Single end with customized cable end process
- RoHS compliant

## Product Advantage

- Adequate fire-resistant and low smoke-producing characteristics
- Reduced flexibility & stiff and hard to bend.
- Suitable for building air for heating and cooling systems

## Application Fields

- Used in building plenum spaces, aerospace, vehicles, energy, steel, non-ferrous metal smelting, oil, electrical and other fields of high temperature resistant wire and cable

## Cable Construction

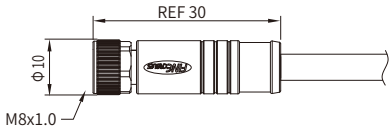
- Fire-retardant, low-smoke PVC jacket, with FEP wire insulation
- Construction: 2 Pairs + Shield(AL)+Drain+Braids
- Conductor: Bare copper
  Gray cable jacket

## Part No.

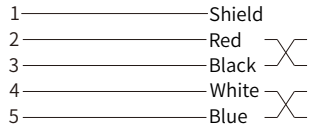
| Pairs | 1P | | | |
|---|---|---|---|---|
| AWG | 24AWG Unshielded | 24AWG Shielding | 20AWG Unshielded | 20AWG Shielding |
| Cable length 2m | MA08MAHD05ST-CMP1x2m | MA08MSAHD05ST-CMP1x2m | MA08MAHD05ST-CMP2x2m | MA08MSAHD05ST-CMP2x2m |
| Cable length 5m | MA08MAHD05ST-CMP1x5m | MA08MSAHD05ST-CMP1x5m | MA08MAHD05ST-CMP2x5m | MA08MSAHD05ST-CMP2x5m |
| Cable length 7m | MA08MAHD05ST-CMP1x7m | MA08MSAHD05ST-CMP1x7m | MA08MAHD05ST-CMP2x7m | MA08MSAHD05ST-CMP2x7m |

# Plenum Cables

## Plenum Cable: M8 Female Connector With Cable




Wirelist




**RoHS**

## Specifications

| Contacts | 5(Female) |
|---|---|
| Pin layout | |
| Connector Series | M8 |
| Contact No. | 5 Pins |
| Coding | B |
| Contacts Material | Brass with gold plated |
| Nut/Screw Material | Zinc alloy with nickel plated |
| Connector Insert | TPU; PA |
| Over-molding | TPU |
| Wire Color | 1Pair(Red/Black); 1Pair(Blue/White) |
| Jacket Color | Gray |
| Shielding | Available/Unavailable |
| IP Rating | IP67/IP69K |
| Ambient Temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) |
| Contacts Type | Solder version |
| Rated current | 3A |
| Voltage | 30V |
| Wire gauge/size | 20AWGx1Pair+24AWGx1Pair |
| Cable length | Customized Cable Length |

## Product Features

- 2-Pair jacket cable
- Single end with customized cable end process
- RoHS compliant

## Product Advantage

- Adequate fire-resistant and low smoke-producing characteristics
- Reduced flexibility & stiff and hard to bend.
- Suitable for building air for heating and cooling systems

## Application Fields

- Used in building plenum spaces, aerospace, vehicles, energy, steel, non-ferrous metal smelting, oil, electrical and other fields of high temperature resistant wire and cable

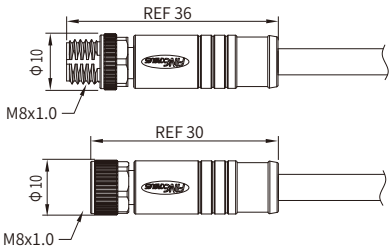
## Cable Construction

- Fire-retardant, low-smoke PVC jacket, with FEP wire insulation
- Construction: 2 Pairs + Shield(AL)+Drain+Braids
- Conductor: Bare copper
  Gray cable jacket

## Part No.

| Pairs | 1P | | | |
|---|---|---|---|---|
| AWG | 24AWG Unshielded | 24AWG Shielding | 20AWG Unshielded | 20AWG Shielding |
| Cable length 2m | MA08FAHD05ST-CMP1x2m | MA08FSAHD05ST-CMP1x2m | MA08FAHD05ST-CMP2x2m | MA08FSAHD05ST-CMP2x2m |
| Cable length 5m | MA08FAHD05ST-CMP1x5m | MA08FSAHD05ST-CMP1x5m | MA08FAHD05ST-CMP2x5m | MA08FSAHD05ST-CMP2x5m |
| Cable length 7m | MA08FAHD05ST-CMP1x7m | MA08FSAHD05ST-CMP1x7m | MA08FAHD05ST-CMP2x7m | MA08FSAHD05ST-CMP2x7m |

## Plenum Cable: M8 Male Connector to Female Connector




Wirelist

| | | |
|---|---|---|
| 1 | Shield | 1 |
| 2 | Red | 2 |
| 3 | Black | 3 |
| 4 | White | 4 |
| 5 | Blue | 5 |

**RoHS**

## Specifications

| Contacts | 5(Female) | 5(Female) |
|---|---|---|
| Pin layout | | |
| Connector Series | M8 | |
| Contact No. | 5 Pins | |
| Coding | B | |
| Contacts Material | Brass with gold plated | |
| Nut/Screw Material | Zinc alloy with nickel plated | |
| Connector Insert | TPU; PA | |
| Over-molding | TPU | |
| Wire Color | 1Pair(Red/Black); 1Pair(Blue/White) | |
| Jacket Color | Gray | |
| Shielding | Available/Unavailable | |
| IP Rating | IP67/IP69K | |
| Ambient Temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | |
| Contacts Type | Solder version | |
| Rated current | 3A | |
| Voltage | 30V | |
| Wire gauge/size | 20AWGx1Pair+24AWGx1Pair | |
| Cable length | Customized Cable Length | |

## Product Features

- 2-Pair jacket cable
- Double ends
- RoHS compliant

## Product Advantage

- Adequate fire-resistant and low smoke-producing characteristics
- Reduced flexibility & stiff and hard to bend.
- Suitable for building air for heating and cooling systems

## Application Fields

- Used in building plenum spaces, aerospace, vehicles, energy, steel, non-ferrous metal smelting, oil, electrical and other fields of high temperature resistant wire and cable

## Cable Construction

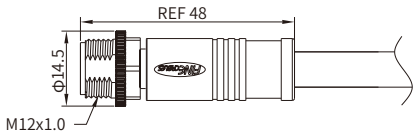
- Fire-retardant, low-smoke PVC jacket, with FEP wire insulation
- Construction: 2 Pairs + Shield(AL)+Drain+Braids
- Conductor: Bare copper
  Gray cable jacket

## Part No.

| Pairs | 1P | |
|---|---|---|
| AWG | 24AWG Unshielded | 24AWG Shielding |
| Cable length 2m | MA08MAHD05ST-CMP1x2m-MA08FAHD05ST | MA08MSAHD05ST-CMP1x2m-MA08FSAHD05ST |
| Cable length 5m | MA08MAHD05ST-CMP1x5m-MA08FAHD05ST | MA08MSAHD05ST-CMP1x5m-MA08FSAHD05ST |
| Cable length 7m | MA08MAHD05ST-CMP1x7m-MA08FAHD05ST | MA08MSAHD05ST-CMP1x7m-MA08FSAHD05ST |
| Pairs | 1P | |
| AWG | 20AWG Unshielded | 20AWG Shielding |
| Cable length 2m | MA08MAHD05ST-CMP2x2m-MA08FAHD05ST | MA08MSAHD05ST-CMP2x2m-MA08FSAHD05ST |
| Cable length 5m | MA08MAHD05ST-CMP2x5m-MA08FAHD05ST | MA08MSAHD05ST-CMP2x5m-MA08FSAHD05ST |
| Cable length 7m | MA08MAHD05ST-CMP2x7m-MA08FAHD05ST | MA08MSAHD05ST-CMP2x7m-MA08FSAHD05ST |

# Plenum Cables

## Plenum Cable: M12 Male Connector With Cable




Wirelist

**RoHS**

## Specifications

| Contacts | 5(Male) |
|---|---|
| Pin layout | |
| Connector Series | M12 |
| Contact No. | 5 Pins |
| Coding | A |
| Contacts Material | Brass with gold plated |
| Nut/Screw Material | Zinc alloy with nickel plated |
| Connector Insert | TPU; PA |
| Over-molding | TPU |
| Wire Color | 1Pair(Red/Black); 1Pair(Blue/White) |
| Jacket Color | Gray |
| Shielding | Available/Unavailable |
| IP Rating | IP67/IP69K |
| Ambient Temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) |
| Contacts Type | Solder version |
| Rated current | 4A |
| Voltage | 25V |
| Wire gauge/size | 20AWGx1Pair+24AWGx1Pair |
| Cable length | Customized Cable Length |

## Product Features

- 2-Pair jacket cable
- Single end with customized cable end process
- RoHS compliant

## Product Advantage

- Adequate fire-resistant and low smoke-producing characteristics
- Reduced flexibility & stiff and hard to bend.
- Suitable for building air for heating and cooling systems

## Application Fields

- Used in building plenum spaces, aerospace, vehicles, energy, steel, non-ferrous metal smelting, oil, electrical and other fields of high temperature resistant wire and cable

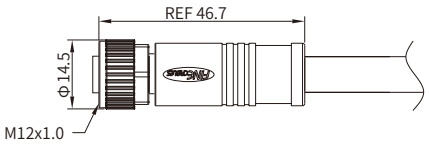
## Cable Construction

- Fire-retardant, low-smoke PVC jacket, with FEP wire insulation
- Construction: 2 Pairs + Shield(AL)+Drain+Braids
- Conductor: Bare copper
  Gray cable jacket

## Part No.

| Pairs | 1P | | | |
|---|---|---|---|---|
| AWG | 24AWG Unshielded | 24AWG Shielding | 20AWG Unshielded | 20AWG Shielding |
| Cable length 2m | MA12MAHD05ST-CMP1x2m | MA12MSAHD05ST-CMP1x2m | MA12MAHD05ST-CMP2x2m | MA12MSAHD05ST-CMP2x2m |
| Cable length 5m | MA12MAHD05ST-CMP1x5m | MA12MSAHD05ST-CMP1x5m | MA12MAHD05ST-CMP2x5m | MA12MSAHD05ST-CMP2x5m |
| Cable length 7m | MA12MAHD05ST-CMP1x7m | MA12MSAHD05ST-CMP1x7m | MA12MAHD05ST-CMP2x7m | MA12MSAHD05ST-CMP2x7m |

## Plenum Cable: M12 Female Connector With Cable




Wirelist

| | | |
|---|---|---|
| 1 | Shield | |
| 2 | Red | |
| 3 | Black | |
| 4 | White | |
| 5 | Blue | |

**RoHS**

## Specifications

| Contacts | 5(Female) |
|---|---|
| Pin layout | |
| Connector Series | M12 |
| Contact No. | 5 Pins |
| Coding | A |
| Contacts Material | Brass with gold plated |
| Nut/Screw Material | Zinc alloy with nickel plated |
| Connector Insert | TPU; PA |
| Over-molding | TPU |
| Wire Color | 1Pair(Red/Black); 1Pair(Blue/White) |
| Jacket Color | Gray |
| Shielding | Available/Unavailable |
| IP Rating | IP67/IP69K |
| Ambient Temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) |
| Contacts Type | Solder version |
| Rated current | 4A |
| Voltage | 25V |
| Wire gauge/size | 20AWGx1Pair+24AWGx1Pair |
| Cable length | Customized Cable Length |

## Product Features

- 2-Pair jacket cable
- Single end with customized cable end process
- RoHS compliant

## Product Advantage

- Adequate fire-resistant and low smoke-producing characteristics
- Reduced flexibility & stiff and hard to bend.
- Suitable for building air for heating and cooling systems

## Application Fields

- Used in building plenum spaces, aerospace, vehicles, energy, steel, non-ferrous metal smelting, oil, electrical and other fields of high temperature resistant wire and cable

## Cable Construction

- Fire-retardant, low-smoke PVC jacket, with FEP wire insulation
- Construction: 2 Pairs + Shield(AL)+Drain+Braids
- Conductor: Bare copper
  Gray cable jacket

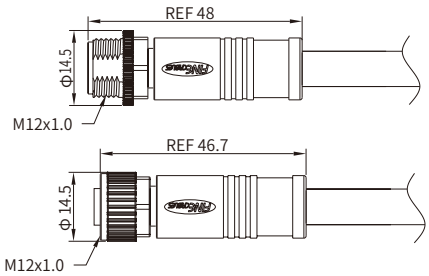
## Part No.

| Pairs | 1P | | | |
|---|---|---|---|---|
| AWG | 24AWG Unshielded | 24AWG Shielding | 20AWG Unshielded | 20AWG Shielding |
| Cable length 2m | MA12FAHD05ST-CMP1x2m | MA12FSAHD05ST-CMP1x2m | MA12FAHD05ST-CMP2x2m | MA12FSAHD05ST-CMP2x2m |
| Cable length 5m | MA12FAHD05ST-CMP1x5m | MA12FSAHD05ST-CMP1x5m | MA12FAHD05ST-CMP2x5m | MA12FSAHD05ST-CMP2x5m |
| Cable length 7m | MA12FAHD05ST-CMP1x7m | MA12FSAHD05ST-CMP1x7m | MA12FAHD05ST-CMP2x7m | MA12FSAHD05ST-CMP2x7m |

# Plenum Cables

## Plenum Cable: M12 Male Connector to Female Connector

RoHS



## Specifications

| Contacts | 5(Male) | 5(Female) |
|---|---|---|
| Pin layout | | |
| Connector Series | M12 | |
| Contact No. | 5 Pins | |
| Coding | A | |
| Contacts Material | Brass with gold plated | |
| Nut/Screw Material | Zinc alloy with nickel plated | |
| Connector Insert | TPU; PA | |
| Over-molding | TPU | |
| Wire Color | 1Pair(Red/Black); 1Pair(Blue/White) | |
| Jacket Color | Gray | |
| Shielding | Available/Unavailable | |
| IP Rating | IP67/IP69K | |
| Ambient Temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | |
| Contacts Type | Solder version | |
| Rated current | 4A | |
| Voltage | 250V | |
| Wire gauge/size | 20AWGx1Pair+24AWGx1Pair | |
| Cable length | Customized Cable Length | |

## Product Features

- 2-Pair jacket cable
- Double ends
- RoHS compliant

## Product Advantage

- Adequate fire-resistant and low smoke-producing characteristics
- Reduced flexibility & stiff and hard to bend.
- Suitable for building air for heating and cooling systems

## Application Fields

- Used in building plenum spaces, aerospace, vehicles, energy, steel, non-ferrous metal smelting, oil, electrical and other fields of high temperature resistant wire and cable

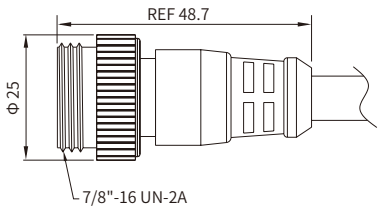
## Cable Construction

- Fire-retardant, low-smoke PVC jacket, with FEP wire insulation
- Construction: 2 Pairs + Shield(AL)+Drain+Braids
- Conductor: Bare copper
  Gray cable jacket

## Part No.

| Pairs | 1P | |
|---|---|---|
| AWG | 24AWG Unshielded | 24AWG Shielding |
| Cable length 2m | MA12MAHD05ST-CMP1x2m-MA12FAHD05ST | MA12MSAHD05ST-CMP1x2m-MA12FSAHD05ST |
| Cable length 5m | MA12MAHD05ST-CMP1x5m-MA12FAHD05ST | MA12MSAHD05ST-CMP1x5m-MA12FSAHD05ST |
| Cable length 7m | MA12MAHD05ST-CMP1x7m-MA12FAHD05ST | MA12MSAHD05ST-CMP1x7m-MA12FSAHD05ST |
| Pairs | 1P | |
| AWG | 20AWG Unshielded | 20AWG Shielding |
| Cable length 2m | MA12MAHD05ST-CMP2x2m-MA12FAHD05ST | MA12MSAHD05ST-CMP2x2m-MA12FSAHD05ST |
| Cable length 5m | MA12MAHD05ST-CMP2x5m-MA12FAHD05ST | MA12MSAHD05ST-CMP2x5m-MA12FSAHD05ST |
| Cable length 7m | MA12MAHD05ST-CMP2x7m-MA12FAHD05ST | MA12MSAHD05ST-CMP2x7m-MA12FSAHD05ST |

## Plenum Cable: 7/8" Male Connector With Cable




Wirelist

| | | |
|---|---|---|
| 1 | Brown | |
| 2 | Red | |
| 3 | Black | |
| 4 | White | |
| 5 | Blue | |

**RoHS**

## Specifications

| Contacts | 5(Male) |
|---|---|
| Pin layout | |
| Connector Series | 7/8" |
| Contact No. | 5 Pins |
| Coding | A |
| Contacts Material | Brass with gold plated |
| Nut/Screw Material | Aluminum anodized black |
| Connector Insert | TPU |
| Over-molding | TPU |
| Wire Color | 1Pair(Red/Black); 1Pair(Blue/White) |
| Jacket Color | Gray |
| Shielding | Unavailable |
| IP Rating | IP67/IP69K |
| Ambient Temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) |
| Contacts Type | Crimp version |
| Rated current | 8A |
| Voltage | 300V |
| Wire gauge/size | 20AWGx1Pair+24AWGx1Pair |
| Cable length | Customized Cable Length |

## Product Features

- 2-Pair jacket cable
- Single end with customized cable end process
- RoHS compliant

## Product Advantage

- Adequate fire-resistant and low smoke-producing characteristics
- Reduced flexibility & stiff and hard to bend.
- Suitable for building air for heating and cooling systems

## Application Fields

- Used in building plenum spaces, aerospace, vehicles, energy, steel, non-ferrous metal smelting, oil, electrical and other fields of high temperature resistant wire and cable

## Cable Construction

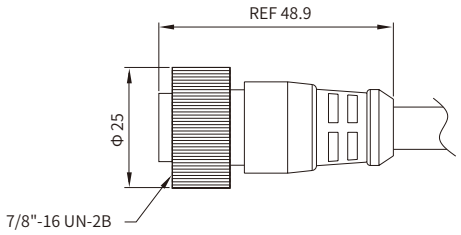
- Fire-retardant, low-smoke PVC jacket, with FEP wire insulation
- Construction: 2 Pairs + Shield(AL)+Drain+Braids
- Conductor: Bare copper
  Gray cable jacket

## Part No.

| Pairs | 1P | |
|---|---|---|
| AWG | 24AWG | 20AWG |
| Cable length 2m | MINI-C05MST-M-CMP1x2m | MINI-C05MST-M-CMP2x2m |
| Cable length 5m | MINI-C05MST-M-CMP1x5m | MINI-C05MST-M-CMP2x5m |
| Cable length 7m | MINI-C05MST-M-CMP1x7m | MINI-C05MST-M-CMP2x7m |

# Plenum Cables

## Plenum Cable: 7/8" Female Connector With Cable




Wirelist

| | |
|---|---|
| 1 | Brown |
| 2 | Red |
| 3 | Black |
| 4 | White |
| 5 | Blue |

**RoHS**

## Specifications

| Contacts | 5(Female) |
|---|---|
| Pin layout | |
| Connector Series | 7/8" |
| Contact No. | 5 Pins |
| Coding | A |
| Contacts Material | Brass with gold plated |
| Nut/Screw Material | Aluminum anodized black |
| Connector Insert | TPU |
| Over-molding | TPU |
| Wire Color | 1Pair(Red/Black); 1Pair(Blue/White) |
| Jacket Color | Gray |
| Shielding | Unavailable |
| IP Rating | IP67/IP69K |
| Ambient Temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) |
| Contacts Type | Crimp version |
| Rated current | 8A |
| Voltage | 300V |
| Wire gauge/size | 20AWGx1Pair+24AWGx1Pair |
| Cable length | Customized Cable Length |

## Product Features

- 2-Pair jacket cable
- Single end with customized cable end process
- RoHS compliant

## Product Advantage

- Adequate fire-resistant and low smoke-producing characteristics
- Reduced flexibility & stiff and hard to bend.
- Suitable for building air for heating and cooling systems

## Application Fields

- Used in building plenum spaces, aerospace, vehicles, energy, steel, non-ferrous metal smelting, oil, electrical and other fields of high temperature resistant wire and cable

## Cable Construction

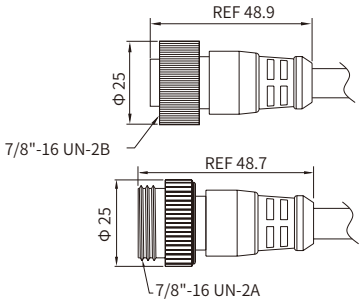
- Fire-retardant, low-smoke PVC jacket, with FEP wire insulation
- Construction: 2 Pairs + Shield(AL)+Drain+Braids
- Conductor: Bare copper
  Gray cable jacket

## Part No.

| Pairs | 1P | |
|---|---|---|
| AWG | 24AWG | 20AWG |
| Cable length 2m | MINI-C05FST-M-CMP1x2m | MINI-C05FST-M-CMP2x2m |
| Cable length 5m | MINI-C05FST-M-CMP1x5m | MINI-C05FST-M-CMP2x5m |
| Cable length 7m | MINI-C05FST-M-CMP1x7m | MINI-C05FST-M-CMP2x7m |

## Plenum Cable: 7/8" Male Connector With Cable

RoHS



## Specifications

| Contacts | 5(Male) | 5(Female) |
|---|---|---|
| Pin layout | | |
| Connector Series | 7/8" | |
| Contact No. | 5 Pins | |
| Coding | A | |
| Contacts Material | Brass with gold plated | |
| Nut/Screw Material | Aluminum anodized black | |
| Connector Insert | TPU | |
| Over-molding | TPU | |
| Wire Color | 1Pair(Red/Black); 1Pair(Blue/White) | |
| Jacket Color | Gray | |
| Shielding | Unavailable | |
| IP Rating | IP67/IP69K | |
| Ambient Temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | |
| Contacts Type | Crimp version | |
| Rated current | 8A | |
| Voltage | 300V | |
| Wire gauge/size | 20AWGx1Pair+24AWGx1Pair | |
| Cable length | Customized Cable Length | |

## Product Features

- 2-Pair jacket cable
- Double ends
- RoHS compliant

## Product Advantage

- Adequate fire-resistant and low smoke-producing characteristics
- Reduced flexibility & stiff and hard to bend.
- Suitable for building air for heating and cooling systems

## Application Fields

- Used in building plenum spaces, aerospace, vehicles, energy, steel, non-ferrous metal smelting, oil, electrical and other fields of high temperature resistant wire and cable

## Cable Construction

- Fire-retardant, low-smoke PVC jacket, with FEP wire insulation
- Construction: 2 Pairs + Shield(AL)+Drain+Braids
- Conductor: Bare copper
  Gray cable jacket

## Part No.

| Pairs | 1P | |
|---|---|---|
| AWG | 24AWG | 20AWG |
| Cable length 2m | MINI-C05MST-M-CMP1x2m-MINI-C05FST-M | MINI-C05MST-M-CMP2x2m-MINI-C05FST-M |
| Cable length 5m | MINI-C05MST-M-CMP1x5m-MINI-C05FST-M | MINI-C05MST-M-CMP2x5m-MINI-C05FST-M |
| Cable length 7m | MINI-C05MST-M-CMP1x7m-MINI-C05FST-M | MINI-C05MST-M-CMP2x7m-MINI-C05FST-M |

# Drag Chain Cables

## Drag Chain
### cables

The highly flexible drag chain cable is suitable for robotics, frequently movable machine parts and the most modern of automated manufacturing systems, inside and outdoors, to meet the highest service life requirements. The highly flexible drag chain cable can handle the transmission of control and monitoring signals as well as power supply, in any installation where combined torsion and bending stresses occur. It is suitable for connecting handling tools to welding robots and for connection to rotating or tilting tables or for other applications where undefined cable runs are necessary and the cable is subjected to twisting along its length.

# Drag Chain Cable

## Drag Chain of Cable (2 million drag chain cycles)

RoHS

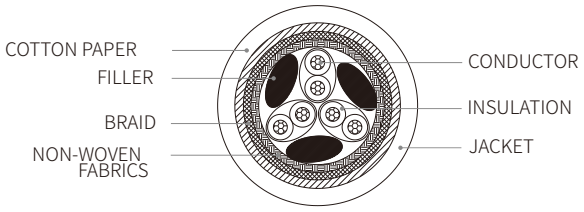
## Cable Features

- Multi-strand ultra-fine copper wire is twisted in accordance with VDE0295, category 5, column 3 standard
- Filled cotton and coated fiber fabrics increase tensile and flexure resistance
- Good folding resistance, wear resistance, high and low temperature resistance, oil resistance, corrosion resistance and other comprehensive characteristics

## Detailed Specifications

| Type | Conductor | | | Wire Insulation | | Assembly | | | Jacket | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Conductor cross section $(mm)^2$ | Materials | Cores | Materail | Insulation outside diameter | Aluminum foil | Wrap | Braids | Material | Color |
| Shielding double-stranded data transmission cable | 0.14(26AWG)<br>0.2(24AWG)<br>0.3(22AWG)<br>0.5(20AWG) | Tinned Copper | 2p/3p/4p/5p/6p/7p/8p/10p/13p | PVC | 1<br>1.1<br>1.2<br>1.5 | >100% | Non-Woven fabrics | Tin Plated Copper ⩾65% | PVC/PUR | Black |
| Shielded/unshielded control cable | 0.14(26AWG)<br>0.2(24AWG)<br>0.3(22AWG)<br>0.5(20AWG)<br>0.75(19AWG)<br>1(17AWG)<br>1.5(15AWG) | Tinned Copper | 2c/3c/4c/5c/6c/8c/10c/12c/16c/20c | PVC | 1<br>1.1<br>1.2<br>1.5<br>1.8<br>2<br>2.4 | >100% | Non-Woven fabrics | Tin Plated Copper ⩾65% | PVC/PUR | Black |
| Shielded/unshielded power cable | 0.5(20AWG)<br>0.75(19AWG)<br>1(17AWG)<br>1.5(15AWG)<br>2.5(13AWG)<br>4(11AWG) | Bare Copper | 2C/3C/4C | PVC | 2<br>2.2<br>2.4<br>2.8<br>3.6<br>4.4 | >100% | Non-Woven fabrics | Tin Plated Copper ⩾65% | PVC/PUR | Black |

## Cable Construction




## Technical Data

- Insulation Resistance: Min 100M Ohm
- Temperature Range: -20°C~+80°C
- Bending Radius: 6.0*OD
- Number of Bending Cycles: ⩾2,000,000
- UL and EU ROHS Compliant

## Advantage & Application

- Suitable for indoor or outdoor dry, moist and oily water mixture Suitable for frequent bending in industrial environment
- Used for power, control, measuring and regulating circuits
- Used in robots, servo systems, dragline systems and other special environments

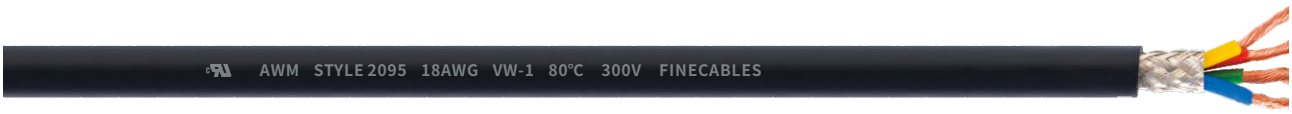
## Part No.

XPreferto:2/3/4/5/6/7/8/10/12/13/16/20Pairs

| Pairs | XP |
|---|---|
| AWG | XXAWG |
| Cable length 2m | DGC200XPx2mXXAWG |
| Cable length 5m | DGC200XPx5mXXAWG |
| Cable length 7m | DGC200XPx7mXXAWG |

# Drag Chain Cable

## Drag Chain of Cable (5 million drag chain cycles)




RoHS

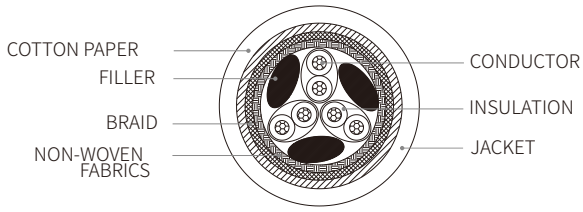
## Cable Features

- Multi-strand ultra-fine copper wire is twisted in accordance with VDE0295, category 6, column 4 standard
- Filled cotton and coated fiber fabrics increase tensile and flexure resistance
- Good folding resistance, wear resistance, high and low temperature resistance, oil resistance, corrosion resistance and other comprehensive characteristics

## Detailed Specifications

| Type | Conductor | | | Wire Insulation | | Assembly | | | Jacket | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Conductor cross section $(mm)^2$ | Materials | Cores | Materail | Insulation outside diameter | Filler | Wrap | Braids | Material | Color |
| Shielding double-stranded data transmission cable | 0.14(26AWG) | Tinned Copper | 2p/3p/4p/5p/6p/7p/8p/10p/12p/13p/15p | PVC | 1 | Cotton textile and fiber coated fabrics | Non-Woven fabrics | Tin Plated Copper ⩾85% | PVC/PUR | Black |
| | 0.2(24AWG) | | | | 1.1 | | | | | |
| | 0.3(22AWG) | | | | 1.2 | | | | | |
| | 0.5(20AWG) | | | | 1.5 | | | | | |
| Shielded/unshielded control cable | 0.2(26AWG) | Tinned Copper | 2c/3c/4c/5c/6c/8c/10c/12c/16c/20c | PVC | 1.1 | Cotton textile and fiber coated fabrics | Non-Woven fabrics | Tin Plated Copper ⩾85% | PVC/PUR | Black |
| | 0.3(24AWG) | | | | 1.2 | | | | | |
| | 0.5(22AWG) | | | | 1.5 | | | | | |
| | 0.75(19AWG) | | | | 1.8 | | | | | |
| | 1(17AWG) | | | | 2 | | | | | |
| | 1.5(15AWG) | | | | 2.4 | | | | | |
| Shielded/unshielded power cable | 0.5(20AWG) | Bare Copper | 2C/4C | PVC | 2 | Cotton textile and fiber coated fabrics | Non-Woven fabrics | Tin Plated Copper ⩾85% | PVC/PUR | Black |
| | 0.75(19AWG) | | | | 2.2 | | | | | |
| | 1(17AWG) | | | | 2.4 | | | | | |
| | 1.5(15AWG) | | | | 2.8 | | | | | |
| | 2.5(13AWG) | | | | 3.6 | | | | | |
| | 4(11AWG) | | | | 4.4 | | | | | |

## Cable Construction




## Technical Data

- Insulation Resistance: Min 100M Ohm
- Temperature Range: -20°C~+80°C
- Bending Radius: 6.0*OD
- Number of Bending Cycles: ⩾5,000,000
- UL and EU ROHS Compliant

## Advantage & Application

- Suitable for indoor or outdoor dry, moist and oily water mixture
  Suitable for frequent bending in industrial environment
- Used for power, control, measuring and regulating circuits
- Used in robots, servo systems, dragline systems and other special environments

## Part No.

XPreferto:2/3/4/5/6/7/8/10/12/13/16/20Pairs

| Pairs | XP |
|---|---|
| AWG | XXAWG |
| Cable length 2m | DGC500XPx2mXXAWG |
| Cable length 5m | DGC500XPx5mXXAWG |
| Cable length 7m | DGC500XPx7mXXAWG |

# Drag Chain Cable

## Drag Chain of Cable (10 million drag chain cycles)

RoHS

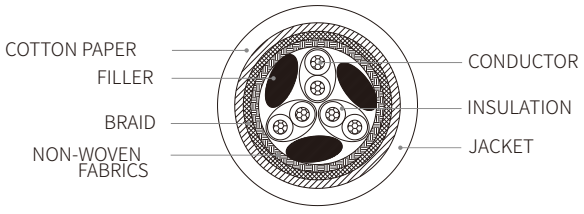
## Cable Features

- Multi-strand ultra-fine copper wire is twisted in accordance with VDE0295, category 6, column 5 standard
- Filled cotton and coated fiber fabrics increase tensile and flexure resistance
- Good folding resistance, wear resistance, high and low temperature resistance, oil resistance, corrosion resistance and other comprehensive characteristics

## Detailed Specifications

| Type | Conductor | | | Wire Insulation | | Assembly | | | Jacket | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Conductor cross section $(mm)^2$ | Materials | Cores | Materail | Insulation outside diameter | Filler | Wrap | Braids | Material | Color |
| Shielding double-stranded data transmission cable | 0.2(24AWG) | Tinned Copper | 2p/3p/4p/5p/6p/7p/ | PVC | 1.1 | Cotton textile and fiber coated fabrics | Non-Woven fabrics | Tin Plated Copper ⩾85% | PVC/PUR | Black |
| | 0.3(22AWG) | | | | 1.2 | | | | | |
| | 0.5(20AWG) | | | | 1.5 | | | | | |
| Shielded/unshielded control cable | 0.2(26AWG) | Tinned Copper | 2c/3c/4c/5c/6c/8c/10c/12c/16c/20c | PVC | 1.1 | Cotton textile and fiber coated fabrics | Non-Woven fabrics | Tin Plated Copper ⩾85% | PVC/PUR | Black |
| | 0.3(24AWG) | | | | 1.2 | | | | | |
| | 0.5(22AWG) | | | | 1.5 | | | | | |
| | 0.75(19AWG) | | | | 1.8 | | | | | |
| | 1(17AWG) | | | | 2 | | | | | |
| Shielded/unshielded power cable | 0.5(20AWG) | Bare Copper | 2C/4C | PVC | 2 | Cotton textile and fiber coated fabrics | Non-Woven fabrics | Tin Plated Copper ⩾85% | PVC/PUR | Black |
| | 0.75(19AWG) | | | | 2.2 | | | | | |
| | 1(17AWG) | | | | 2.4 | | | | | |
| | 1.5(15AWG) | | | | 2.8 | | | | | |
| | 2.5(13AWG) | | | | 3.6 | | | | | |
| | 4(11AWG) | | | | 4.4 | | | | | |

## Cable Construction




## Technical Data

- Insulation Resistance: Min 100M Ohm
- Temperature Range: -20°C~+80°C
- Bending Radius: 6.0*OD
- Number of Bending Cycles: ⩾10,000,000
- UL and EU ROHS Compliant

## Advantage & Application

- Suitable for indoor or outdoor dry, moist and oily water mixture Suitable for frequent bending in industrial environment
- Used for power, control, measuring and regulating circuits
- Used in robots, servo systems, dragline systems and other special environments

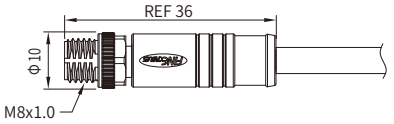
## Part No.

XPreferto:2/3/4/5/6/7/8/10/12/13/16/20Pairs

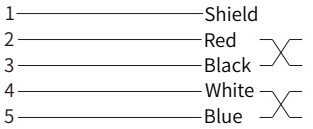
| Pairs | XP |
|---|---|
| AWG | XXAWG |
| Cable length 2m | DGC1000XPx2mXXAWG |
| Cable length 5m | DGC1000XPx5mXXAWG |
| Cable length 7m | DGC1000XPx7mXXAWG |

# Drag Chain Cable

## Drag Chain Cable: M8 Male Connector With Cable




Wirelist




Example, non fixed wirelist

**RoHS**

## Specifications

| Contacts | 5(Male) |
|---|---|
| Pin layout | |
| Connector Series | M8 |
| Contact No. | 5 Pins |
| Coding | B |
| Contacts Material | Brass with gold plated |
| Nut/Screw Material | Zinc alloy with nickel plated |
| Connector Insert | TPU |
| Over-molding | TPU |
| Wire Color | 1Pair(Red/Black); 1Pair(Blue/White) |
| Jacket Color | Gray |
| Shielding | Available/Unavailable |
| IP Rating | IP67/IP69K |
| Ambient Temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) |
| Contacts Type | Solder version |
| Rated current | 3A |
| Voltage | 30V |
| Cable length | Customized Cable Length |

## Product Features

- Single end with customized cable end process
- Reduced flexibility & stiff and hard to bend.
- RoHS compliant

## Product Advantage

- Adequate fire-resistant and low smoke-producing characteristics
- Suitable for building air for heating and cooling systems

## Application Fields

- Used in building plenum spaces, aerospace, vehicles, energy, steel, non-ferrous metal smelting, oil, electrical and other fields of high temperature resistant wire and cable

## Cable Construction

- Fire-retardant, low-smoke PVC jacket, with FEP wire insulation
- Conductor: Bare copper
- Gray cable jacket

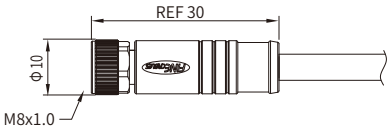
## Part No.

X canchoose200/500/10000 XP referto：2/3/4/5/6/7/8/10/12/13/16/20Pairs

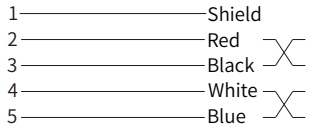
| Pairs | XP | |
|---|---|---|
| AWG | XXAWG Unshielded | XXAWG Shielding |
| Cable length 2m | MA08MAHD05ST-DGCXXPx2mXXAWG | MA08MSAHD05ST-DGCXXPx2mXXAWG |
| Cable length 5m | MA08MAHD05ST-DGCXXPx5mXXAWG | MA08MSAHD05ST-DGCXXPx5mXXAWG |
| Cable length 7m | MA08MAHD05ST-DGCXXPx7mXXAWG | MA08MSAHD05ST-DGCXXPx7mXXAWG |

# Drag Chain Cable

## Drag Chain Cable: M8 Female Connector With Cable




Wirelist




Example, non fixed wirelist

**RoHS**

## Specifications

| Contacts | 5(Female) |
|---|---|
| Pin layout | |
| Connector Series | M8 |
| Contact No. | 5 Pins |
| Coding | B |
| Contacts Material | Brass with gold plated |
| Nut/Screw Material | Zinc alloy with nickel plated |
| Connector Insert | TPU; PA |
| Over-molding | TPU |
| Wire Color | 1Pair(Red/Black); 1Pair(Blue/White) |
| Jacket Color | Gray |
| Shielding | Available/Unavailable |
| IP Rating | IP67/IP69K |
| Ambient Temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) |
| Contacts Type | Solder version |
| Rated current | 3A |
| Voltage | 30V |
| Cable length | Customized Cable Length |

## Product Features

- Single end with customized cable end process
- Reduced flexibility & stiff and hard to bend.
- RoHS compliant

## Product Advantage

- Adequate fire-resistant and low smoke-producing characteristics
- Suitable for building air for heating and cooling systems

## Application Fields

- Used in building plenum spaces, aerospace, vehicles, energy, steel, non-ferrous metal smelting, oil, electrical and other fields of high temperature resistant wire and cable

## Cable Construction

- Fire-retardant, low-smoke PVC jacket, with FEP wire insulation
- Conductor: Bare copper
- Gray cable jacket

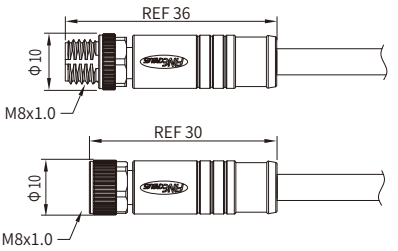
## Part No.

X canchoose200/500/10000 XP referto:2/3/4/5/6/7/8/10/12/13/16/20Pairs

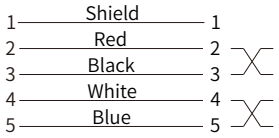
| Pairs | XP | |
|---|---|---|
| AWG | XXAWG Unshielded | XXAWG Shielding |
| Cable length 2m | MA08FAHD05ST-DGCXXPx2mXXAWG | MA08FSAHD05ST-DGCXXPx2mXXAWG |
| Cable length 5m | MA08FAHD05ST-DGCXXPx5mXXAWG | MA08FSAHD05ST-DGCXXPx5mXXAWG |
| Cable length 7m | MA08FAHD05ST-DGCXXPx7mXXAWG | MA08FSAHD05ST-DGCXXPx7mXXAWG |

# Drag Chain Cable

## Drag Chain Cable: M8 Male Connector to Female Connector




Wirelist




Example, non fixed wirelist

**RoHS**

## Specifications

| Contacts | 5(Male) | 5(Female) |
|---|---|---|
| Pin layout | | |
| Connector Series | M8 | |
| Contact No. | 5 Pins | |
| Coding | B | |
| Contacts Material | Brass with gold plated | |
| Nut/Screw Material | Zinc alloy with nickel plated | |
| Connector Insert | TPU; PA | |
| Over-molding | TPU | |
| Wire Color | 1Pair(Red/Black); 1Pair(Blue/White) | |
| Jacket Color | Gray | |
| Shielding | Available/Unavailable | |
| IP Rating | IP67/IP69K | |
| Ambient Temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | |
| Contacts Type | Solder version | |
| Rated current | 3A | |
| Voltage | 30V | |
| Cable length | Customized Cable Length | |

## Product Features

- Single end with customized cable end process
- Reduced flexibility & stiff and hard to bend.
- RoHS compliant

## Product Advantage

- Adequate fire-resistant and low smoke-producing characteristics
- Suitable for building air for heating and cooling systems

## Application Fields

- Used in building plenum spaces, aerospace, vehicles, energy, steel, non-ferrous metal smelting, oil, electrical and other fields of high temperature resistant wire and cable

## Cable Construction

- Fire-retardant, low-smoke PVC jacket, with FEP wire insulation
- Conductor: Bare copper
- Gray cable jacket

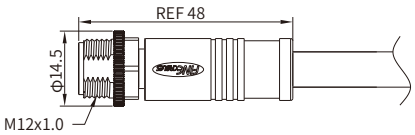
## Part No.

X canchoose200/500/10000 XP referto：2/3/4/5/6/7/8/10/12/13/16/20Pairs

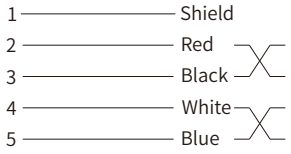
| Pairs | XP | |
|---|---|---|
| AWG | XXAWG Unshielded | XXAWG Shielding |
| Cable length 2m | MA08MAHD05ST-DGCXXPx2mXXAWG-MA08FAHD05ST | MA08MSAHD05ST-DGCXXPx2mXXAWG-MA08FSAHD05ST |
| Cable length 5m | MA08MAHD05ST-DGCXXPx5mXXAWG-MA08FAHD05ST | MA08MSAHD05ST-DGCXXPx5mXXAWG-MA08FSAHD05ST |
| Cable length 7m | MA08MAHD05ST-DGCXXPx7mXXAWG-MA08FAHD05ST | MA08MSAHD05ST-DGCXXPx7mXXAWG-MA08FSAHD05ST |

# Drag Chain Cable

## Drag Chain Cable: M12 Male Connector With Cable




Wirelist




Example, non fixed wirelist

**RoHS**

## Specifications

| Contacts | 5(Male) |
|---|---|
| Pin layout | |
| Connector Series | M12 |
| Contact No. | 5 Pins |
| Coding | A |
| Contacts Material | Brass with gold plated |
| Nut/Screw Material | Zinc alloy with nickel plated |
| Connector Insert | TPU; PA |
| Over-molding | TPU |
| Wire Color | 1Pair(Red/Black); 1Pair(Blue/White) |
| Jacket Color | Gray |
| Shielding | Available/Unavailable |
| IP Rating | IP67/IP69K |
| Ambient Temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) |
| Contacts Type | Solder version |
| Rated current | 4A |
| Voltage | 25V |
| Cable length | Customized Cable Length |

## Product Features

- Single end with customized cable end process
- Reduced flexibility & stiff and hard to bend.
- RoHS compliant

## Product Advantage

- Adequate fire-resistant and low smoke-producing characteristics
- Suitable for building air for heating and cooling systems

## Application Fields

- Used in building plenum spaces, aerospace, vehicles, energy, steel, non-ferrous metal smelting, oil, electrical and other fields of high temperature resistant wire and cable

## Cable Construction

- Fire-retardant, low-smoke PVC jacket, with FEP wire insulation
- Conductor: Bare copper
- Gray cable jacket

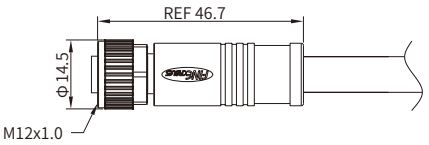
## Part No.

X canchoose200/500/10000 XP referto:2/3/4/5/6/7/8/10/12/13/16/20Pairs

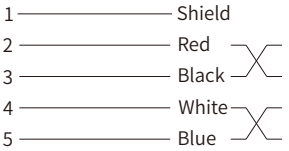
| Pairs | XP | |
|---|---|---|
| AWG | XXAWG Unshielded | XXAWG Shielding |
| Cable length 2m | MA12MAHD05ST-DGCXXPx2mXXAWG | MA12MSAHD05ST-DGCXXPx2mXXAWG |
| Cable length 5m | MA12MAHD05ST-DGCXXPx5mXXAWG | MA12MSAHD05ST-DGCXXPx5mXXAWG |
| Cable length 7m | MA12MAHD05ST-DGCXXPx7mXXAWG | MA12MSAHD05ST-DGCXXPx7mXXAWG |

# Drag Chain Cable

## Drag Chain Cable: M12 Female Connector With Cable




Wirelist




Example, non fixed wirelist

**RoHS**

## Specifications

| Contacts | 5(Female) |
|---|---|
| Pin layout | |
| Connector Series | M12 |
| Contact No. | 5 Pins |
| Coding | A |
| Contacts Material | Brass with gold plated |
| Nut/Screw Material | Zinc alloy with nickel plated |
| Connector Insert | TPU; PA |
| Over-molding | TPU |
| Wire Color | 1Pair(Red/Black); 1Pair(Blue/White) |
| Jacket Color | Gray |
| Shielding | Available/Unavailable |
| IP Rating | IP67/IP69K |
| Ambient Temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) |
| Contacts Type | Solder version |
| Rated current | 4A |
| Voltage | 25V |
| Cable length | Customized Cable Length |

## Product Features

- Single end with customized cable end process
- Reduced flexibility & stiff and hard to bend.
- RoHS compliant

## Product Advantage

- Adequate fire-resistant and low smoke-producing characteristics
- Suitable for building air for heating and cooling systems

## Application Fields

- Used in building plenum spaces, aerospace, vehicles, energy, steel, non-ferrous metal smelting, oil, electrical and other fields of high temperature resistant wire and cable

## Cable Construction

- Fire-retardant, low-smoke PVC jacket, with FEP wire insulation
- Conductor: Bare copper
- Gray cable jacket

## Part No.

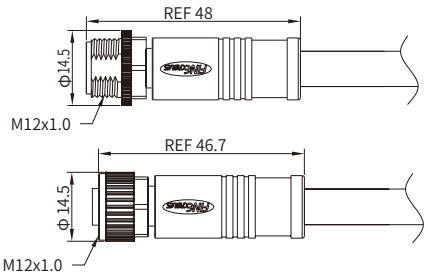
X canchoose200/500/10000 XP referto：2/3/4/5/6/7/8/10/12/13/16/20Pairs

| Pairs | XP | |
|---|---|---|
| AWG | XXAWG Unshielded | XXAWG Shielding |
| Cable length 2m | MA12FAHD05ST-DGCXXPx2mXXAWG | MA12FSAHD05ST-DGCXXPx2mXXAWG |
| Cable length 5m | MA12FAHD05ST-DGCXXPx5mXXAWG | MA12FSAHD05ST-DGCXXPx5mXXAWG |
| Cable length 7m | MA12FAHD05ST-DGCXXPx7mXXAWG | MA12FSAHD05ST-DGCXXPx7mXXAWG |

# Drag Chain Cable

## Drag Chain Cable: M12 Male Connector to Female Connector

**RoHS**



Example, non fixed wirelist

## Specifications

| Contacts | 5(Male) | 5(Female) |
|---|---|---|
| Pin layout | | |
| Connector Series | M12 | |
| Contact No. | 5 Pins | |
| Coding | A | |
| Contacts Material | Brass with gold plated | |
| Nut/Screw Material | Zinc alloy with nickel plated | |
| Connector Insert | TPU; PA | |
| Over-molding | TPU | |
| Wire Color | 1Pair(Red/Black); 1Pair(Blue/White) | |
| Jacket Color | Gray | |
| Shielding | Available/Unavailable | |
| IP Rating | IP67/IP69K | |
| Ambient Temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | |
| Contacts Type | Solder version | |
| Rated current | 4A | |
| Voltage | 250V | |
| Cable length | Customized Cable Length | |

## Product Features

- Single end with customized cable end process
- Reduced flexibility & stiff and hard to bend.
- RoHS compliant

## Product Advantage

- Adequate fire-resistant and low smoke-producing characteristics
- Suitable for building air for heating and cooling systems

## Application Fields

- Used in building plenum spaces, aerospace, vehicles, energy, steel, non-ferrous metal smelting, oil, electrical and other fields of high temperature resistant wire and cable

## Cable Construction

- Fire-retardant, low-smoke PVC jacket, with FEP wire insulation
- Conductor: Bare copper
- Gray cable jacket

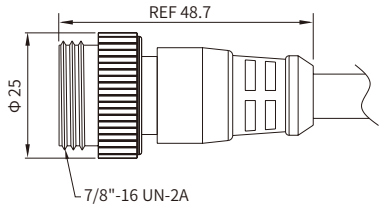
## Part No.

X canchoose200/500/10000 XP referto:2/3/4/5/6/7/8/10/12/13/16/20Pairs

| Pairs | XP | |
|---|---|---|
| AWG | XXAWG Unshielded | XXAWG Shielding |
| Cable length 2m | MA12MAHD05ST-DGCXXPx2mXXAWG-MA12FAHD05ST | MA12MSAHD05ST-DGCXXPx2mXXAWG-MA12FSAHD05ST |
| Cable length 5m | MA12MAHD05ST-DGCXXPx5mXXAWG-MA12FAHD05ST | MA12MSAHD05ST-DGCXXPx5mXXAWG-MA12FSAHD05ST |
| Cable length 7m | MA12MAHD05ST-DGCXXPx7mXXAWG-MA12FAHD05ST | MA12MSAHD05ST-DGCXXPx7mXXAWG-MA12FSAHD05ST |

# Drag Chain Cable

## Drag Chain Cable: 7/8" Male Connector With Cable




Wirelist

| | | |
|---|---|---|
| 1 | Brown | |
| 2 | Red | X |
| 3 | Black | |
| 4 | White | X |
| 5 | Blue | |

Example, non fixed wirelist

**RoHS**

## Specifications

| Contacts | 5(Male) |
|---|---|
| Pin layout | |
| Connector Series | 7/8" |
| Contact No. | 5 Pins |
| Coding | A |
| Contacts Material | Brass with gold plated |
| Nut/Screw Material | Aluminum anodized black |
| Connector Insert | TPU |
| Over-molding | TPU |
| Wire Color | 1Pair(Red/Black); 1Pair(Blue/White) |
| Jacket Color | Gray |
| Shielding | Unavailable |
| IP Rating | IP67/IP69K |
| Ambient Temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) |
| Contacts Type | Crimp version |
| Rated current | 8A |
| Voltage | 300V |
| Cable length | Customized Cable Length |

## Product Features

- Single end with customized cable end process
- Reduced flexibility & stiff and hard to bend.
- RoHS compliant

## Product Advantage

- Adequate fire-resistant and low smoke-producing characteristics
- Suitable for building air for heating and cooling systems

## Application Fields

- Used in building plenum spaces, aerospace, vehicles, energy, steel, non-ferrous metal smelting, oil, electrical and other fields of high temperature resistant wire and cable

## Cable Construction

- Fire-retardant, low-smoke PVC jacket, with FEP wire insulation
- Conductor: Bare copper
- Gray cable jacket

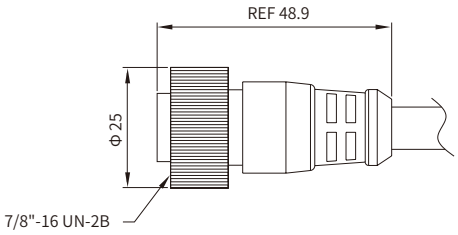
## Part No.

X canchoose200/500/10000 XP referto：2/3/4/5/6/7/8/10/12/13/16/20Pairs

| Pairs | XP |
|---|---|
| AWG | XXAWG |
| Cable length 2m | MINI-C05MST-M-DGCXXPx2mXXAWG |
| Cable length 5m | MINI-C05MST-M-DGCXXPx5mXXAWG |
| Cable length 7m | MINI-C05MST-M-DGCXXPx7mXXAWG |

# Drag Chain Cable

## Drag Chain Cable: 7/8" Female Connector With Cable




Wirelist

| | | |
|---|---|---|
| 1 | Brown | |
| 2 | Red | |
| 3 | Black | |
| 4 | White | |
| 5 | Blue | |

Example, non fixed wirelist

**RoHS**

## Specifications

| Contacts | 5(Female) |
|---|---|
| Pin layout | |
| Connector Series | 7/8" |
| Contact No. | 5 Pins |
| Coding | A |
| Contacts Material | Brass with gold plated |
| Nut/Screw Material | Aluminum anodized black |
| Connector Insert | TPU |
| Over-molding | TPU |
| Wire Color | 1Pair(Red/Black); 1Pair(Blue/White) |
| Jacket Color | Gray |
| Shielding | Unavailable |
| IP Rating | IP67/IP69K |
| Ambient Temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) |
| Contacts Type | Crimp version |
| Rated current | 8A |
| Voltage | 300V |
| Cable length | Customized Cable Length |

## Product Features

- Single end with customized cable end process
- Reduced flexibility & stiff and hard to bend.
- RoHS compliant

## Product Advantage

- Adequate fire-resistant and low smoke-producing characteristics
- Suitable for building air for heating and cooling systems

## Application Fields

- Used in building plenum spaces, aerospace, vehicles, energy, steel, non-ferrous metal smelting, oil, electrical and other fields of high temperature resistant wire and cable

## Cable Construction

- Fire-retardant, low-smoke PVC jacket, with FEP wire insulation
- Conductor: Bare copper
- Gray cable jacket

## Part No.

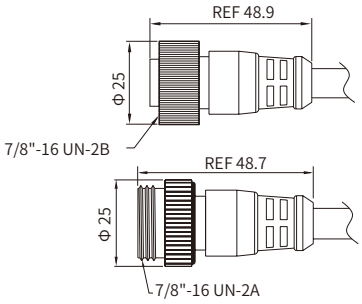
X canchoose200/500/10000 XP referto:2/3/4/5/6/7/8/10/12/13/16/20Pairs

| Pairs | XP |
|---|---|
| AWG | XXAWG |
| Cable length 2m | MINI-C05FST-M-DGCXXPx2mXXAWG |
| Cable length 5m | MINI-C05FST-M-DGCXXPx5mXXAWG |
| Cable length 7m | MINI-C05FST-M-DGCXXPx7mXXAWG |

# Drag Chain Cable

## Drag Chain Cable: 7/8" Male Connector With Cable

**RoHS**




Wirelist

| | | |
|---|---|---|
| 1 | Brown | 1 |
| 2 | Red | 2 |
| 3 | Black | 3 |
| 4 | White | 4 |
| 5 | Blue | 5 |

Example, non fixed wirelist

## Specifications

| Contacts | 5(Male) | 5(Female) |
|---|---|---|
| Pin layout | | |
| Connector Series | 7/8" | |
| Contact No. | 5 Pins | |
| Coding | A | |
| Contacts Material | Brass with gold plated | |
| Nut/Screw Material | Aluminum anodized black | |
| Connector Insert | TPU | |
| Over-molding | TPU | |
| Wire Color | 1Pair(Red/Black); 1Pair(Blue/White) | |
| Jacket Color | Gray | |
| Shielding | Unavailable | |
| IP Rating | IP67/IP69K | |
| Ambient Temperature | -25°C ~ +85°C (flexible installation) ,-40°C ~ +85°C (fixed installation) | |
| Contacts Type | Crimp version | |
| Rated current | 8A | |
| Voltage | 300V | |
| Cable length | Customized Cable Length | |

## Product Features

- Single end with customized cable end process
- Reduced flexibility & stiff and hard to bend.
- RoHS compliant

## Product Advantage

- Adequate fire-resistant and low smoke-producing characteristics
- Suitable for building air for heating and cooling systems

## Application Fields

- Used in building plenum spaces, aerospace, vehicles, energy, steel, non-ferrous metal smelting, oil, electrical and other fields of high temperature resistant wire and cable

## Cable Construction

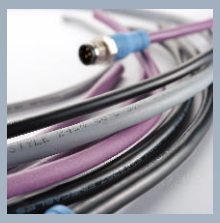
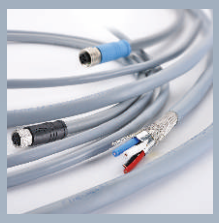
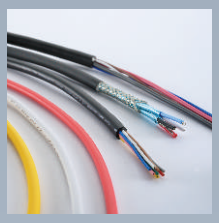
- Fire-retardant, low-smoke PVC jacket, with FEP wire insulation
- Conductor: Bare copper
- Gray cable jacket

## Part No.

X canchoose200/500/10000 XP referto：2/3/4/5/6/7/8/10/12/13/16/20Pairs

| Pairs | XP |
|---|---|
| AWG | XXAWG |
| Cable length 2m | MINI-C05MST-M-DGCXXPx2mXXAWGMINI-C05FST-M-DGCXXPx2mXXAWG |
| Cable length 5m | MINI-C05MST-M-DGCXXPx5mXXAWGMINI-C05FST-M-DGCXXPx5mXXAWG |
| Cable length 7m | MINI-C05MST-M-DGCXXPx7mXXAWGMINI-C05FST-M-DGCXXPx7mXXAWG |

# Multi-conductor Cables

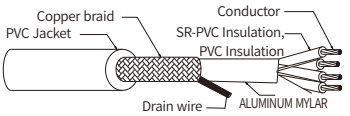
## PVC Jacket cables

The application areas for this thermoplast in the plastics industry are diverse. There are various types of PVC used in the wire and cable industry. National (DIN VDE) and International (IEC) Standards Authorities have specified PVC parameters for the different PVC mixtures.

PVC jacket cables are used for the transmission of measuring, control and voice signals in electronic control appliances, in electronics of data processing systems, for paging and intercom systems, weighing installations, office machines, etc. The cables can be used for fixed installations and flexible applications with free movement, without tensile load and mechanically guided movement in dry, damp and wet rooms. PVC data cables are not suitable for outdoor use.

# Multi-conductor Cable

## UL20276 Multi-Conductor Cable




RoHS

## Product Description

- Tinned, annealed, stranded copper conductor.
- First type core: PP or PE insulation
- Second type core: sr-PVC insulation
- Cores cabled under aluminum mylar shield
- Tinned or BARE copper drain wire.
- Tinned or bare copper braid shield.
- PVC jacket.
- Rated temperature: 80°C, Rated voltage: 30Volts
- Pass UL VW-1&CSA FT1 vertical flame test

## Detailed Specifications

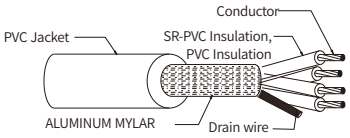
- For internal wiring or external wiring of class 2 systems equipment and electronic equipment

## Technical Data

| UL Style& CSA Type | Cores | Conductor | | Insulation Thickness | Nom. Dia | Drain Wire | Overall Shield | | Jacket Thickness | Overall Diameter | Conductor Resistance at 20°C |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Gauge | No./OD | | | | Material | Spiral/Braids | | | |
| | | AWG | No./mm | mm | mm | No./mm | mm | Coverage | mm | mm | Ω/KM |
| UL20276CSA (Stranded) | 3P | 26 | 7/0.16 | 0.26 | 1.00 | / | PAPER | 80.00% | 1.05 | 6.40 | 150.00 |
| | 1C | 26 | 7/0.16 | 0.26 | 1.00 | / | PAPER | 80.00% | 1.05 | 6.40 | 150.00 |
| | 3P | 28 | 7/0.127 | 0.12 | 0.65 | 7/0.16 | AL | 85.00% | 0.56 | 4.70 | 239.00 |
| | 9C | 28 | 7/0.127 | 0.12 | 0.65 | 7/0.16 | AL | 85.00% | 0.56 | 4.70 | 239.00 |
| | 12P | 28 | 7/0.127 | 0.12 | 0.65 | 7/0.20 | AL | 85.00% | 1.00 | 6.70 | 239.00 |
| | 1C | 28 | 7/0.127 | 0.12 | 0.65 | 7/0.20 | AL | 85.00% | 1.00 | 6.70 | 239.00 |
| | 6P | 28 | 7/0.127 | 0.12 | 0.65 | 7/0.127 | PET | 70.00% | 0.70 | 4.70 | 239.00 |
| | 7P | 28 | 7/0.127 | 0.12 | 0.65 | / | PAPER | 85.00% | 0.95 | 5.30 | 239.00 |
| | 8P | 28 | 7/0.10 | 0.12 | 0.65 | 7/0.127 | PET | 85.00% | 0.70 | 5.00 | 239.00 |
| | 13P | 28 | 7/0.127 | 0.12 | 0.65 | 7/0.20 | AL | 85.00% | 0.92 | 7.00 | 239.00 |
| | 18P | 28 | 7/0.127 | 0.12 | 0.65 | / | AL | 85.00% | 0.76 | 7.40 | 239.00 |
| | 19P | 30 | 7/0.10 | 0.15 | 0.60 | 7/0.127 | AL | 85.00% | 1.28 | 8.50 | 381.00 |
| | 25P | 30 | 7/0.10 | 0.15 | 0.60 | 7/0.127 | AL | 85.00% | 1.39 | 9.50 | 381.00 |
| | 25P | 28 | 7/0.127 | 0.12 | 0.65 | / | AL | 85.00% | 0.72 | 8.20 | 239.00 |

# Multi-conductor Cable

## UL2464 Multi-Conductor Cable



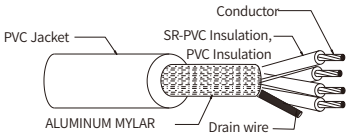

RoHS

### Product Description

- Tinned, annealed, stranded or solid copper conductor.
- Semi-rigid PVC insulation or PVC insulation
- Cores cabled under aluminum mylar shield
- Tinned stranded copper drain wire.
- PVC jacket unpaired computer and data transmission cable
- Rated temperature: 80°C. Rated voltage: 300Volts
- Pass UL VW-1&CSA FT1 vertical flame test

### Detailed Specifications

- Sound broadcast, audio instrumentation and computer cables for RS-232 applications.




RoHS

### Product Description

- Tinned, annealed, stranded or solid copper conductor.
- Semi-rigid PVC insulation or PVC insulation
- Tinned stranded copper drain wire.
- Tinned copper braid shield, 65% coverage.
- PVC jacket computer and data transmission cable.
- Rated temperature: 80°C. Rated voltage: 300Volts
- Pass UL VW-1&CSA FT1 vertical flame test

### Detailed Specifications

- Sound broadcast, audio instrumentation and computer cables for RS-232 applications.

# Multi-conductor Cable

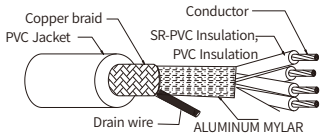
## UL2464 Multi-Conductor Cable

### Technical Data

| UL Style& CSA Type | Gauge | Conductor | | Insulation Thickness | Jacket Thickness | Overall Diameter | Electrostatic Capacity | | Conductor Resistance at 20°C |
|---|---|---|---|---|---|---|---|---|---|
| | | No./OD | Cores | | | | | | |
| | AWG | No./mm | | mm | mm | mm | A | B | Ω/KM |
| UL2464CSA AWM I/II A (Stranded) | 28 | 7/0.10 | 3 | 0.25 | 0.80 | 3.70 | 28 | 51 | 239.00 |
| | | | 4 | 0.25 | 0.80 | 3.90 | 28 | 51 | |
| | | | 5 | 0.25 | 0.80 | 4.20 | 28 | 51 | |
| | | | 6 | 0.25 | 0.80 | 4.50 | 26 | 47 | |
| | | | 7 | 0.25 | 0.80 | 4.50 | 26 | 47 | |
| | | | 8 | 0.25 | 0.80 | 4.80 | 26 | 47 | |
| | | | 9 | 0.25 | 0.80 | 5.10 | 26 | 47 | |
| | | | 10 | 0.25 | 0.80 | 5.20 | 26 | 47 | |
| | | | 15 | 0.25 | 0.80 | 5.80 | 26 | 47 | |
| | | | 25 | 0.25 | 1.00 | 7.60 | 26 | 47 | |
| | | | 37 | 0.25 | 1.00 | 8.30 | 26 | 47 | |
| | | | 50 | 0.25 | 1.00 | 9.50 | 26 | 47 | |
| UL2464CSA AWM I/II A (Stranded) | 26 | 7/0.16 | 3 | 0.25 | 0.80 | 3.90 | 32 | 52 | 150.00 |
| | | | 4 | 0.25 | 0.80 | 4.20 | 32 | 52 | |
| | | | 5 | 0.25 | 0.80 | 4.50 | 32 | 52 | |
| | | | 6 | 0.25 | 0.80 | 4.80 | 28 | 51 | |
| | | | 7 | 0.25 | 0.80 | 4.80 | 28 | 51 | |
| | | | 8 | 0.25 | 0.80 | 5.10 | 28 | 51 | |
| | | | 9 | 0.25 | 0.80 | 5.40 | 28 | 51 | |
| | | | 10 | 0.25 | 0.85 | 5.70 | 28 | 51 | |
| | | | 15 | 0.25 | 1.00 | 6.40 | 28 | 51 | |
| | | | 25 | 0.25 | 1.00 | 8.00 | 28 | 51 | |
| | | | 37 | 0.25 | 1.00 | 9.20 | 28 | 51 | |
| | | | 50 | 0.25 | 1.00 | 10.40 | 28 | 51 | |
| UL2464CSA AWM I/II A (Stranded) | 24 | 11/0.16 | 3 | 0.25 | 0.80 | 4.20 | 33 | 65 | 94.20 |
| | | | 4 | 0.25 | 0.80 | 4.50 | 33 | 65 | |
| | | | 5 | 0.25 | 0.80 | 4.90 | 33 | 65 | |
| | | | 6 | 0.25 | 0.80 | 5.20 | 33 | 65 | |
| | | | 7 | 0.25 | 0.80 | 5.20 | 33 | 65 | |
| | | | 8 | 0.25 | 0.80 | 5.50 | 33 | 65 | |
| | | | 9 | 0.25 | 0.85 | 5.80 | 30 | 55 | |
| | | | 10 | 0.25 | 0.85 | 6.20 | 30 | 55 | |
| | | | 15 | 0.25 | 0.85 | 6.90 | 30 | 55 | |
| | | | 25 | 0.25 | 1.00 | 8.60 | 30 | 55 | |
| | | | 37 | 0.25 | 1.00 | 9.80 | 30 | 55 | |
| | | | 50 | 0.25 | 1.00 | 11.40 | 30 | 55 | |
| UL2464CSA AWM I/II A (Stranded) | 22 | 7/0.25 | 3 | 0.25 | 0.80 | 4.70 | 37 | 67 | 59.40 |
| | | | 4 | 0.25 | 0.80 | 5.10 | 37 | 67 | |
| | | | 5 | 0.25 | 0.80 | 5.50 | 37 | 67 | |
| | | | 6 | 0.25 | 0.80 | 5.80 | 35 | 63 | |
| | | | 7 | 0.25 | 0.80 | 5.80 | 35 | 63 | |
| | | | 8 | 0.25 | 0.85 | 6.30 | 35 | 63 | |
| | | | 9 | 0.25 | 0.85 | 6.70 | 35 | 63 | |
| | | | 10 | 0.25 | 0.85 | 6.80 | 35 | 63 | |
| | | | 15 | 0.25 | 0.85 | 7.80 | 35 | 63 | |
| | | | 25 | 0.25 | 1.00 | 10.00 | 35 | 63 | |
| | | | 37 | 0.25 | 1.00 | 11.30 | 35 | 63 | |
| | | | 50 | 0.25 | 1.00 | 12.90 | 35 | 63 | |
| UL2464CSA AWM I/II A (Stranded) | 18 | 34/0.178 | 2 | 0.25 | 0.80 | 5.80 | 70 | 120 | 23.20 |
| | | | 3 | 0.25 | 0.80 | 6.00 | 70 | 120 | |
| | | | 4 | 0.25 | 0.80 | 6.70 | 70 | 120 | |
| | | | 5 | 0.25 | 0.80 | 7.30 | 70 | 120 | |

# Multi-conductor Cable

## UL2517 Multi-Conductor Shielded Cable




RoHS

## Product Description

- Tinned, annealed, stranded or solid copper conductor.
- PVC insulation
- PVC jacket
- Tinned or bare copper wire spiral or braid shield
- Rated temperature: 105°C  Rated voltage: 300Volts
- Pass UL VW-1&CSA FT1 vertical flame test

## Applications

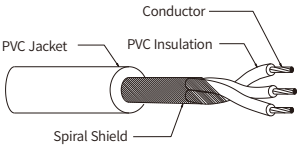
- Tinned, annealed, stranded or solid copper conductor.

## Technical Data

| UL Style& CSA Type | Cores | Conductor | | Insulation Thickness | Nom. Dia | Shield Coverage | Jacket Thickness | Overall Diameter | Conductor Resistance at 20°C |
|---|---|---|---|---|---|---|---|---|---|
| | | Gauge | No./OD | | | | | | |
| | | AWG | No./mm | mm | mm | % | mm | mm | Ω/KM |
| UL2517CSA (Stranded) | 2C | 30 | 7/0.100 | 0.41 | 1.10 | ≥65 | 0.76 | 4.40 | 381.00 |
| | | 28 | 7/0.127 | 0.41 | 1.20 | ≥65 | 0.76 | 4.50 | 239.00 |
| | | 26 | 7/0.16 | 0.43 | 1.30 | ≥65 | 0.76 | 4.80 | 150.00 |
| | | 24 | 11/0.16 | 0.41 | 1.40 | ≥65 | 0.76 | 5.00 | 94.20 |
| | | 22 | 17/0.16 | 0.43 | 1.60 | ≥65 | 0.76 | 5.40 | 59.40 |
| | | 20 | 21/0.178 | 0.41 | 1.80 | ≥65 | 0.76 | 5.80 | 36.70 |
| | | 18 | 34/0.178 | 0.41 | 2.10 | ≥65 | 0.76 | 6.40 | 23.20 |
| | | 16 | 26/0.25 | 0.41 | 2.40 | ≥65 | 0.76 | 7.00 | 14.60 |
| UL2517CSA (Stranded) | 3C | 30 | 7/0.100 | 0.41 | 1.10 | ≥65 | 0.76 | 4.60 | 381.00 |
| | | 28 | 7/0.127 | 0.41 | 1.20 | ≥65 | 0.76 | 4.80 | 239.00 |
| | | 26 | 7/0.16 | 0.41 | 1.30 | ≥65 | 0.76 | 5.00 | 150.00 |
| | | 24 | 11/0.16 | 0.43 | 1.40 | ≥65 | 0.76 | 5.20 | 94.20 |
| | | 22 | 17/0.16 | 0.41 | 1.60 | ≥65 | 0.76 | 5.60 | 59.40 |
| | | 20 | 21/0.178 | 0.41 | 1.80 | ≥65 | 0.76 | 6.00 | 36.70 |
| | | 18 | 34/0.178 | 0.41 | 2.10 | ≥65 | 0.76 | 6.70 | 23.20 |
| UL2517CSA (Stranded) | 4C | 30 | 7/0.100 | 0.41 | 1.10 | ≥65 | 0.76 | 4.80 | 381.00 |
| | | 28 | 7/0.127 | 0.41 | 1.20 | ≥65 | 0.76 | 5.00 | 239.00 |
| | | 26 | 7/0.16 | 0.41 | 1.30 | ≥65 | 0.76 | 5.30 | 150.00 |
| | | 24 | 11/0.16 | 0.41 | 1.40 | ≥65 | 0.76 | 5.60 | 94.20 |
| | | 22 | 17/0.16 | 0.41 | 1.60 | ≥65 | 0.76 | 6.00 | 59.40 |
| | | 20 | 21/0.178 | 0.41 | 1.80 | ≥65 | 0.76 | 6.50 | 36.70 |
| UL2517CSA (Stranded) | 5C | 30 | 7/0.100 | 0.41 | 1.10 | ≥65 | 0.76 | 5.20 | 381.00 |
| | | 28 | 7/0.127 | 0.41 | 1.20 | ≥65 | 0.76 | 5.40 | 239.00 |
| | | 26 | 7/0.16 | 0.41 | 1.30 | ≥65 | 0.76 | 5.70 | 150.00 |
| | | 24 | 11/0.16 | 0.41 | 1.40 | ≥65 | 0.76 | 6.00 | 94.20 |
| | | 22 | 17/0.16 | 0.41 | 1.60 | ≥65 | 0.76 | 6.50 | 59.40 |
| UL2517CSA (Stranded) | 6C | 30 | 7/0.100 | 0.41 | 1.10 | ≥65 | 0.76 | 5.50 | 381.00 |
| | | 28 | 7/0.127 | 0.41 | 1.20 | ≥65 | 0.76 | 5.80 | 239.00 |
| | | 26 | 7/0.16 | 0.41 | 1.30 | ≥65 | 0.76 | 6.00 | 150.00 |
| | | 24 | 11/0.16 | 0.41 | 1.40 | ≥65 | 0.76 | 6.40 | 94.20 |

# Multi-conductor Cable

## UL2547 Multi-Conductor Shielded Cable




RoHS

## Product Description

- Tinned, annealed, stranded or solid copper conductor.
- SR-PVC insulation
- Two to Three cores
- PVC jacket
- Tinned or bare copper wire, spiral shield
- Rated temperature: 80°C. Rated voltage: Not specified
- Pass UL VW-1&CSA FT1 vertical flame test

## Applications

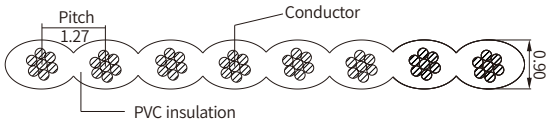
- For use in recording studios, sound systems and electronic circuits

## Technical Data

| UL Style& CSA Type | Cores | Conductor | | Insulation Thickness | Nom. Dia | Spiral Shield | Jacket Thickness | Overall Diameter | Conductor Resistance at 20°C |
|---|---|---|---|---|---|---|---|---|---|
| | | Gauge | No./OD | | | | | | |
| | | AWG | No./mm | mm | mm | No./mm | mm | mm | Ω/KM |
| UL2547CSA I A/B (Stranded) | 2C | 30 | 7/0.10 | 0.26 | 0.85 | 44/0.1 | 0.40 | 2.70 | 381.00 |
| | | 28 | 7/0.127 | 0.26 | 0.90 | 46/0.1 | 0.40 | 2.80 | 239.00 |
| | | 26 | 7/0.16 | 0.26 | 1.00 | 54/0.1 | 0.40 | 3.00 | 150.00 |
| | | 24 | 11/0.16 | 0.26 | 1.15 | 62/0.1 | 0.40 | 3.30 | 94.20 |
| | | 22 | 17/0.16 | 0.26 | 1.30 | 60/0.12 | 0.40 | 3.60 | 59.40 |
| | | 20 | 21/0.178 | 0.26 | 1.50 | 72/0.12 | 0.40 | 4.00 | 36.70 |
| | | 18 | 34/0.178 | 0.26 | 1.70 | 82/0.12 | 0.40 | 4.50 | 23.20 |
| | | 16 | 26/0.25 | 0.26 | 2.10 | 98/0.12 | 0.40 | 5.10 | 14.60 |
| UL2547CSA I A/B (Stranded) | 3C | 30 | 7/0.10 | 0.26 | 0.85 | 49/0.1 | 0.40 | 2.80 | 381.00 |
| | | 28 | 7/0.127 | 0.26 | 0.90 | 53/0.1 | 0.40 | 3.00 | 239.00 |
| | | 26 | 7/0.16 | 0.26 | 1.00 | 54/0.1 | 0.40 | 3.00 | 150.00 |
| | | 24 | 11/0.16 | 0.26 | 1.15 | 69/0.1 | 0.40 | 3.50 | 94.20 |
| | | 22 | 17/0.16 | 0.26 | 1.30 | 72/0.12 | 0.40 | 3.80 | 59.40 |
| | | 20 | 21/0.178 | 0.26 | 1.50 | 82/0.12 | 0.40 | 4.20 | 36.70 |
| | | 18 | 34/0.178 | 0.26 | 1.70 | 96/0.12 | 0.40 | 4.70 | 23.20 |
| | | 16 | 26/0.25 | 0.26 | 2.10 | 114/0.12 | 0.40 | 5.40 | 14.60 |

# Multi-conductor Cable

## UL2651 Flat Ribbon Wire




RoHS

## Product Description

- Tinned, annealed, stranded or solid copper conductor, Top-coated.
- Rated temperature:105°C.
- Rated voltage: 300Volts
- Pass UL VW-1&CSA FT1, vertical flame test

## Applications

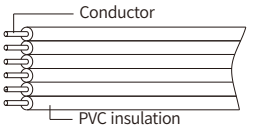
- For use in internal wiring of appliances, computers.

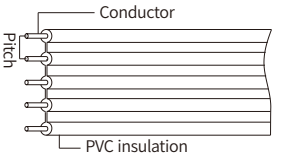
## Technical Data

| UL Style& CSA Type | Gauge | Conductor No./OD | Pitch | Cores | Insulation Thickness | Overall Diameter | Conductor Resistance at 20°C |
|---|---|---|---|---|---|---|---|
| | AWG | No./mm | mm | No. | mm | mm | Ω/KM |
| UL2651 CSA AWM I/A | 28 | 7/0.127 | 1.27 | 9 | 0.23 | 0.9×11.43 | 150.00 |
| | 28 | 7/0.127 | | 10 | | 0.9×12.7 | |
| | 28 | 7/0.127 | | 14 | | 0.9×17.78 | |
| | 28 | 7/0.127 | | 15 | | 0.9×19.05 | |
| | 28 | 7/0.127 | | 16 | | 0.9×20.32 | |
| | 28 | 7/0.127 | | 20 | | 0.9×25.4 | |
| | 28 | 7/0.127 | | 25 | | 0.9×31.75 | |
| | 28 | 7/0.127 | | 26 | | 0.9×33.02 | |
| | 28 | 7/0.127 | | 30 | | 0.9×38.1 | |
| | 28 | 7/0.127 | | 34 | | 0.9×43.18 | |
| | 28 | 7/0.127 | | 36 | | 0.9×45.72 | |
| | 28 | 7/0.127 | | 40 | | 0.9×50.8 | |
| | 28 | 7/0.127 | | 50 | | 0.9×63.5 | |
| | 28 | 7/0.127 | | 60 | | 0.9×76.2 | |

# Multi-conductor Cable

## UL2468 Flat Ribbon Wire




RoHS

## Product Description

- Tinned, annealed, stranded or solid copper conductor.
- Rated temperature: 80°C or 105°C
- Rated voltage: 300Volts
- Pass UL VW-1&CSA FT1, FT2 vertical flame test

## Applications

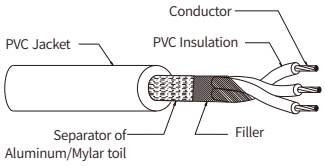
- For use in internal wiring of appliances, computers.

## Technical Data

| UL Style& CSA Type | Gauge | Conductor No./OD | Pitch | Cores | Insulation Thickness | Overall Diameter | Conductor Resistance at 20°C |
|---|---|---|---|---|---|---|---|
| | AWG | No./mm | mm | No. | mm | mm | Ω/KM |
| UL2468 CSA AWM I/A | 24 | 7/0.20 or 11/0.16 | 1.6 or 1.5 | 2 | 0.45 | 1.5×4.7/4.5 | 94.20 |
| | | | | 3 | | 1.5×4.7/4.5 | |
| | | | | 4 | | 1.5×6.3/6.0 | |
| | | | | 5 | | 1.5×7.9/7.5 | |
| | | | | 6 | | 1.5×9.5/9.0 | |
| | | | | 7 | | 1.5×11.1/10.5 | |
| | | | | 8 | | 1.5×12.7/12 | |
| | | | | 9 | | 1.5×14.3/13.5 | |
| | | | | 10 | | 1.5×15.9/15 | |
| | | | | 11 | | 1.5×17.5/16.5 | |
| | | | | 12 | | 1.5×19.1/18 | |
| UL2468 CSA AWM I/A | 24 | 7/0.20 | 2.00 | 2 | 0.45 | 1.5×3.5 | 94.20 |
| | | | | 3 | | 1.5×5.5 | |
| | | | | 4 | | 1.5×7.5 | |
| | | | | 5 | | 1.5×9.5 | |
| | | | | 6 | | 1.5×11.5 | |
| | | | | 7 | | 1.5×13.5 | |
| | | | | 8 | | 1.5×15.5 | |
| | | | | 9 | | 1.5×17.5 | |
| | | | | 10 | | 1.5×19.5 | |
| | | | | 11 | | 1.5×21.5 | |
| | | | | 12 | | 1.5×23.5 | |
| | | | | 13 | | 1.5×25.5 | |
| | | | | 14 | | 1.5×27.5 | |
| | | | | 15 | | 1.5×29.5 | |
| | | | | 16 | | 1.5×31.5 | |
| | | | | 17 | | 1.5×33.5 | |

# Multi-conductor Cable

## UL2725/UL2785 Multi-conductor Shielded Cable




RoHS

## Product Description

- Tinned, annealed, stranded or solid copper conductor.
- SR-PVC insulation or PVC insulation
- PVC jacket
- Filler and paper separator applied.
- Rated temperature: 2725 60°C, 2785 60°C
- Rated voltage: 2725 30Volts, 2785 300Volts
- Pass UL VW-1&CSA FT1 vertical flame test

## Applications

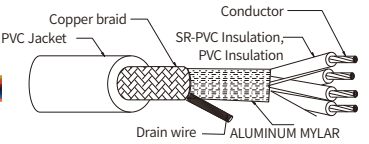
- For use in recording studios, sound systems and electronic circuits

## Technical Data

| UL Style& CSA Type | Cores | Conductor | | Insulation Thickness | Nom. Dia | Jacket Thickness | Overall Diameter | Conductor Resistance at 20°C |
|---|---|---|---|---|---|---|---|---|
| | | Gauge | No./OD | | | | | |
| | | AWG | No./mm | mm | mm | mm | mm | Ω/KM |
| UL2725 UL2785 CSA (Stranded) | 3C | 30 | 7/0.10 | 0.18 | 0.70 | 0.51 | 3.40 | 381.00 |
| | 4C | 30 | 7/0.10 | 0.18 | 0.70 | 0.51 | 3.40 | 381.00 |
| | 6C | 30 | 7/0.10 | 0.18 | 0.70 | 0.51 | 3.60 | 381.00 |
| | 8C | 30 | 7/0.10 | 0.18 | 0.70 | 0.51 | 3.80 | 381.00 |
| | 9C | 30 | 7/0.10 | 0.18 | 0.70 | 0.51 | 4.00 | 381.00 |
| UL2725 UL2785 CSA (Stranded) | 3C | 28 | 7/0.127 | 0.18 | 0.80 | 0.51 | 3.40 | 239.00 |
| | 4C | 28 | 7/0.127 | 0.18 | 0.80 | 0.51 | 3.40 | 239.00 |
| | 6C | 28 | 7/0.127 | 0.18 | 0.80 | 0.51 | 3.60 | 239.00 |
| | 8C | 28 | 7/0.127 | 0.18 | 0.80 | 0.51 | 3.80 | 239.00 |
| | 9C | 28 | 7/0.127 | 0.18 | 0.80 | 0.51 | 4.00 | 239.00 |

# Multi-conductor Cable

## UL2661 Multi-conductor Shielded Cable




RoHS

## Product Description

- Tinned, annealed, stranded or solid copper conductor.
- PVC insulation
- PVC jacket
- Tinned or bare copper wire spiral or braid shield
- Rated temperature:80°C, 90°C, 105°C. Rated voltage: 300Volts
- Pass UL VW-1&CSA FT1 vertical flame test

## Applications

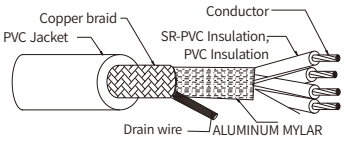
- For internal wiring of computer, audio & video equipment.

## Technical Data

| UL Style& CSA Type | Cores | Conductor | | Insulation Thickness | Nom. Dia | Shield Coverage | Jacket Thickness | Overall Diameter | Conductor Resistance at 20°C |
|---|---|---|---|---|---|---|---|---|---|
| | | Gauge | No./OD | | | | | | |
| | | AWG | No./mm | mm | mm | % | mm | mm | Ω/KM |
| UL2661CSA (Stranded) | 2C | 30 | 7/0.100 | 0.41 | 1.10 | ≥65 | 0.76 | 4.20 | 381.00 |
| | | 28 | 7/0.127 | 0.41 | 1.20 | ≥65 | 0.76 | 4.50 | 239.00 |
| | | 26 | 7/0.16 | 0.43 | 1.30 | ≥65 | 0.76 | 4.70 | 150.00 |
| | | 24 | 11/0.16 | 0.41 | 1.40 | ≥65 | 0.76 | 5.00 | 94.20 |
| | | 22 | 17/0.16 | 0.43 | 1.60 | ≥65 | 0.76 | 5.30 | 59.40 |
| | | 20 | 21/0.178 | 0.41 | 1.80 | ≥65 | 0.76 | 5.70 | 36.70 |
| | | 18 | 34/0.178 | 0.41 | 2.10 | ≥65 | 0.76 | 6.30 | 23.20 |
| UL2661CSA (Stranded) | 3C | 16 | 26/0.25 | 0.41 | 2.40 | ≥65 | 0.76 | 6.90 | 14.60 |
| | | 30 | 7/0.100 | 0.41 | 1.10 | ≥65 | 0.76 | 4.50 | 381.00 |
| | | 28 | 7/0.127 | 0.41 | 1.20 | ≥65 | 0.76 | 4.70 | 239.00 |
| | | 26 | 7/0.16 | 0.41 | 1.30 | ≥65 | 0.76 | 5.00 | 150.00 |
| | | 24 | 11/0.16 | 0.43 | 1.40 | ≥65 | 0.76 | 5.20 | 94.20 |
| | | 22 | 17/0.16 | 0.41 | 1.60 | ≥65 | 0.76 | 5.60 | 59.40 |
| | | 20 | 21/0.178 | 0.41 | 1.80 | ≥65 | 0.76 | 6.00 | 36.70 |
| UL2661CSA (Stranded) | 4C | 18 | 34/0.178 | 0.41 | 2.10 | ≥65 | 0.76 | 6.60 | 23.20 |
| | | 30 | 7/0.100 | 0.41 | 1.10 | ≥65 | 0.76 | 4.80 | 381.00 |
| | | 28 | 7/0.127 | 0.41 | 1.20 | ≥65 | 0.76 | 5.00 | 239.00 |
| | | 26 | 7/0.16 | 0.41 | 1.30 | ≥65 | 0.76 | 5.20 | 150.00 |
| | | 24 | 11/0.16 | 0.41 | 1.40 | ≥65 | 0.76 | 5.50 | 94.20 |
| | | 22 | 17/0.16 | 0.41 | 1.60 | ≥65 | 0.76 | 6.00 | 59.40 |
| UL2661CSA (Stranded) | 5C | 20 | 21/0.178 | 0.41 | 1.80 | ≥65 | 0.76 | 6.50 | 36.70 |
| | | 30 | 7/0.100 | 0.41 | 1.10 | ≥65 | 0.76 | 5.20 | 381.00 |
| | | 28 | 7/0.127 | 0.41 | 1.20 | ≥65 | 0.76 | 5.40 | 239.00 |
| | | 26 | 7/0.16 | 0.41 | 1.30 | ≥65 | 0.76 | 5.60 | 150.00 |
| | | 24 | 11/0.16 | 0.41 | 1.40 | ≥65 | 0.76 | 5.90 | 94.20 |
| UL2661CSA (Stranded) | 6C | 22 | 17/0.16 | 0.41 | 1.60 | ≥65 | 0.76 | 6.50 | 59.40 |
| | | 30 | 7/0.100 | 0.41 | 1.10 | ≥65 | 0.76 | 5.50 | 381.00 |
| | | 28 | 7/0.127 | 0.41 | 1.20 | ≥65 | 0.76 | 5.70 | 239.00 |
| | | 26 | 7/0.16 | 0.41 | 1.30 | ≥65 | 0.76 | 6.00 | 150.00 |
| | | 24 | 11/0.16 | 0.41 | 1.40 | ≥65 | 0.76 | 6.30 | 94.20 |

# Multi-conductor Cable

## UL2835 Multi-conductor Shielded Cable




RoHS

## Product Description

- Tinned, annealed, stranded copper conductor or tinsel conductor.
- PVC or PE or PP insulation.
- Cores cabled under aluminum mylar shield.
- Tinned stranded copper drain wire.
- Tinned or bare copper braid shield.
- PVC jacket or Non-migration jacket available.
- Rated temperature: 60°C. Rated voltage: 30Volts
- Pass UL VW-1&CSA FT1 vertical flame test

## Applications

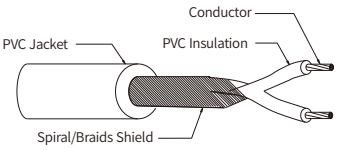
- For internal wiring in class 2 circuits of electronic equipment or TV game machine data transmission

## Technical Data

| UL Style& CSA Type | Cores | Conductor | | Insulation Thickness | Nom. Dia | Drain Wire | Overall shield | | Jacket Thickness | Overall Diameter | Conductor Resistance at 20°C |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Gauge | No./OD | | | | Material | Spiral/Braids | | | |
| | | AWG | No./mm | mm | mm | NO./mm | mm | NO./No.mm | mm | mm | Ω/KM |
| UL2661CSA (Stranded) | 4C | 28 | 7/0.127 | 0.22 | 0.82 | / | AL | 57/0.1 | 1.00 | 4.30 | 239.00 |
| | 4C | 22 | 17/0.16 | 0.22 | 1.20 | 17/0.16 | AL | / | 0.45 | 4.00 | 59.40 |
| | 5C | 28 | 19/0.08 | 0.2 | 0.80 | / | PAPER | 16/6/0.12 | 0.88 | 4.80 | 239.00 |
| | 6C | 28 | 7/0.127 | 0.22 | 0.82 | / | AL | 79/0.1 | 0.68 | 4.30 | 239.00 |
| | 7C | 28 | 7/0.127 | 0.26 | 0.90 | 7/0.127 | / | 75/0.12 | 0.90 | 5.00 | 239.00 |
| | 7C | 32 | TINSEL | 0.22 | 1.00 | 7/0.127 | / | 16/7/0.1 | 0.75 | 5.20 | 563.00 |
| | 8C | 28 | 19/0.08 | 0.23 | 0.86 | / | PAPER | 16/8/0.1 | 0.75 | 4.80 | 239.00 |
| | 9C | 28 | 7/0.127 | 0.22 | 0.82 | / | PAPER | 81/0.12 | 0.75 | 4.90 | 239.00 |
| | 10C | 28 | 7/0.127 | 0.26 | 0.90 | 7/0.127 | AL | / | 0.6 | 5.00 | 239.00 |

# Multi-conductor Cable

## UL2851 Multi-Conductor Shielded Cable




RoHS

## Product Description

- Tinned, annealed, stranded or solid copper conductor.
- PVC insulation
- PVC jacket
- Tinned or bare copper wire spiral shield
- Rated temperature:80°C Rated voltage: 30Volts
- Pass UL VW-1&CSA FT1 vertical flame test

## Applications

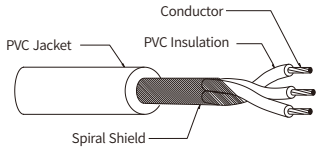
- For internal wiring of electronic equipment, in class 2 systems.

## Technical Data

| UL Style& CSA Type | Cores | Conductor | | Insulation Thickness | Nom. Dia | Spiral Shield | Jacket Thickness | Overall Diameter | Conductor Resistance at 20°C |
|---|---|---|---|---|---|---|---|---|---|
| | | Gauge | No./OD | | | | | | |
| | | AWG | No./mm | mm | mm | No./mm | mm | mm | Ω/KM |
| UL2851CSA (Stranded) | 2C | 30 | 7/0.10 | 0.23 | 0.75 | 41/0.1 | 0.35 | 2.50 | 381.00 |
| | | 28 | 7/0.127 | 0.26 | 0.90 | 46/0.1 | 0.35 | 2.80 | 239.00 |
| | | 26 | 7/0.16 | 0.26 | 1.00 | 54/0.1 | 0.35 | 3.00 | 150.00 |
| | | 24 | 11/0.16 | 0.26 | 1.15 | 62/0.1 | 0.35 | 3.20 | 94.20 |
| | | 22 | 17/0.16 | 0.26 | 1.30 | 62/0.12 | 0.35 | 3.50 | 59.40 |
| | | 20 | 21/0.178 | 0.26 | 1.50 | 72/0.12 | 0.35 | 4.00 | 36.70 |
| | | 18 | 34/0.178 | 0.26 | 1.70 | 82/0.12 | 0.35 | 4.40 | 23.20 |
| UL2851CSA (Stranded) | 3C | 30 | 7/0.10 | 0.23 | 0.75 | 46/0.1 | 0.35 | 2.60 | 381.00 |
| | | 28 | 7/0.127 | 0.26 | 0.90 | 53/0.1 | 0.35 | 3.10 | 239.00 |
| | | 26 | 7/0.16 | 0.26 | 1.00 | 62/0.1 | 0.35 | 3.10 | 150.00 |
| | | 24 | 11/0.16 | 0.26 | 1.15 | 69/0.1 | 0.35 | 3.40 | 94.20 |
| | | 22 | 17/0.16 | 0.26 | 1.30 | 72/0.12 | 0.35 | 3.70 | 59.40 |
| | | 20 | 21/0.178 | 0.26 | 1.50 | 82/0.12 | 0.35 | 4.10 | 36.70 |
| | | 18 | 34/0.178 | 0.26 | 1.70 | 96/0.12 | 0.35 | 4.60 | 23.20 |
| UL2851CSA (Stranded) | 4C | 30 | 7/0.10 | 0.23 | 0.75 | 56/0.1 | 0.35 | 2.80 | 381.00 |
| | | 28 | 7/0.127 | 0.26 | 0.90 | 56/0.12 | 0.35 | 3.10 | 239.00 |
| | | 26 | 7/0.16 | 0.26 | 1.00 | 63/0.12 | 0.35 | 3.40 | 150.00 |
| | | 24 | 11/0.16 | 0.26 | 1.15 | 71/0.12 | 0.35 | 3.70 | 94.20 |
| | | 22 | 17/0.16 | 0.26 | 1.30 | 81/0.12 | 0.35 | 4.10 | 59.40 |
| | | 20 | 21/0.178 | 0.26 | 1.50 | 92/0.12 | 0.35 | 4.50 | 36.70 |
| | | 18 | 34/0.178 | 0.26 | 1.70 | 107/0.12 | 0.35 | 5.10 | 23.20 |
| UL2851CSA (Stranded) | 5C | 30 | 7/0.10 | 0.23 | 0.75 | 68/0.1 | 0.35 | 3.00 | 381.00 |
| | | 28 | 7/0.127 | 0.26 | 0.90 | 62/0.12 | 0.35 | 3.40 | 239.00 |
| | | 26 | 7/0.16 | 0.26 | 1.00 | 71/0.12 | 0.35 | 3.70 | 150.00 |
| | | 24 | 11/0.16 | 0.26 | 1.15 | 79/0.12 | 0.35 | 4.00 | 94.20 |
| | | 22 | 17/0.16 | 0.26 | 1.30 | 90/0.12 | 0.35 | 4.40 | 59.40 |
| | | 20 | 21/0.178 | 0.26 | 1.50 | 103/0.12 | 0.35 | 4.90 | 36.70 |
| | | 18 | 34/0.178 | 0.26 | 1.70 | 120/0.12 | 0.35 | 5.60 | 23.20 |
| UL2851CSA (Stranded) | 6C | 30 | 7/0.10 | 0.23 | 0.75 | 59/0.12 | 0.35 | 3.20 | 381.00 |
| | | 28 | 7/0.127 | 0.26 | 0.90 | 71/0.12 | 0.35 | 3.70 | 239.00 |
| | | 26 | 7/0.16 | 0.26 | 1.00 | 79/0.12 | 0.35 | 4.00 | 150.00 |
| | | 24 | 11/0.16 | 0.26 | 1.15 | 88/0.12 | 0.35 | 4.40 | 94.20 |
| | | 22 | 17/0.16 | 0.26 | 1.30 | 101/0.12 | 0.35 | 4.80 | 59.40 |
| | | 20 | 21/0.178 | 0.26 | 1.50 | 114/0.12 | 0.35 | 5.40 | 36.70 |
| UL2851CSA (Stranded) | 7C | 30 | 7/0.10 | 0.23 | 0.75 | 59/0.12 | 0.35 | 4.50 | 381.00 |
| | | 28 | 7/0.127 | 0.26 | 0.90 | 71/0.12 | 0.35 | 3.20 | 239.00 |
| | | 26 | 7/0.16 | 0.26 | 1.00 | 79/0.12 | 0.35 | 4.00 | 150.00 |
| | | 24 | 11/0.16 | 0.26 | 1.15 | 88/0.12 | 0.35 | 4.40 | 94.20 |
| | | 22 | 17/0.16 | 0.26 | 1.30 | 101/0.12 | 0.35 | 4.80 | 59.40 |
| | | 20 | 21/0.178 | 0.26 | 1.50 | 114/0.12 | 0.35 | 5.40 | 36.70 |

# Multi-conductor Cable

## UL2854 Multi-Conductor Shielded Cable




RoHS

## Product Description

- Tinned, annealed, stranded or solid copper conductor.
- SR-PVC insulation or PVC insulation
- PVC jacket
- Tinned or bare copper wire spiral shield
- Rated temperature: 80°C. Rated voltage: 30Volts
- Pass UL VW-1&CSA FT1 vertical flame test

## Applications

- For internal wiring of electronic equipment, in class 2 systems.

## Technical Data

| UL Style& CSA Type | Cores | Conductor | | Insulation Thickness | Nom. Dia | Spiral Shield | Jacket Thickness | Overall Diameter | Conductor Resistance at 20°C |
|---|---|---|---|---|---|---|---|---|---|
| | | Gauge | No./OD | | | | | | |
| | | AWG | No./mm | mm | mm | No./mm | mm | mm | Ω/KM |
| UL2851CSA (Stranded) | 2C | 30 | 7/0.10 | 0.23 | 0.75 | 41/0.1 | 0.35 | 2.50 | 381.00 |
| | | 28 | 7/0.127 | 0.26 | 0.90 | 46/0.1 | 0.35 | 2.80 | 239.00 |
| | | 26 | 7/0.16 | 0.26 | 1.00 | 54/0.1 | 0.35 | 3.00 | 150.00 |
| | | 24 | 11/0.16 | 0.26 | 1.15 | 62/0.1 | 0.35 | 3.20 | 94.20 |
| | | 22 | 17/0.16 | 0.26 | 1.30 | 62/0.12 | 0.35 | 3.50 | 59.40 |
| | | 20 | 21/0.178 | 0.26 | 1.50 | 72/0.12 | 0.35 | 4.00 | 36.70 |
| | | 18 | 34/0.178 | 0.26 | 1.70 | 82/0.12 | 0.35 | 4.40 | 23.20 |
| UL2851CSA (Stranded) | 3C | 30 | 7/0.10 | 0.23 | 0.75 | 46/0.1 | 0.35 | 2.60 | 381.00 |
| | | 28 | 7/0.127 | 0.26 | 0.90 | 53/0.1 | 0.35 | 3.10 | 239.00 |
| | | 26 | 7/0.16 | 0.26 | 1.00 | 62/0.1 | 0.35 | 3.10 | 150.00 |
| | | 24 | 11/0.16 | 0.26 | 1.15 | 69/0.1 | 0.35 | 3.40 | 94.20 |
| | | 22 | 17/0.16 | 0.26 | 1.30 | 72/0.12 | 0.35 | 3.70 | 59.40 |
| | | 20 | 21/0.178 | 0.26 | 1.50 | 82/0.12 | 0.35 | 4.10 | 36.70 |
| | | 18 | 34/0.178 | 0.26 | 1.70 | 96/0.12 | 0.35 | 4.60 | 23.20 |
| UL2851CSA (Stranded) | 4C | 30 | 7/0.10 | 0.23 | 0.75 | 56/0.1 | 0.35 | 2.80 | 381.00 |
| | | 28 | 7/0.127 | 0.26 | 0.90 | 56/0.12 | 0.35 | 3.10 | 239.00 |
| | | 26 | 7/0.16 | 0.26 | 1.00 | 63/0.12 | 0.35 | 3.40 | 150.00 |
| | | 24 | 11/0.16 | 0.26 | 1.15 | 71/0.12 | 0.35 | 3.70 | 94.20 |
| | | 22 | 17/0.16 | 0.26 | 1.30 | 81/0.12 | 0.35 | 4.10 | 59.40 |
| | | 20 | 21/0.178 | 0.26 | 1.50 | 92/0.12 | 0.35 | 4.50 | 36.70 |
| | | 18 | 34/0.178 | 0.26 | 1.70 | 107/0.12 | 0.35 | 5.10 | 23.20 |
| UL2851CSA (Stranded) | 5C | 30 | 7/0.10 | 0.23 | 0.75 | 68/0.1 | 0.35 | 3.00 | 381.00 |
| | | 28 | 7/0.127 | 0.26 | 0.90 | 62/0.12 | 0.35 | 3.40 | 239.00 |
| | | 26 | 7/0.16 | 0.26 | 1.00 | 71/0.12 | 0.35 | 3.70 | 150.00 |
| | | 24 | 11/0.16 | 0.26 | 1.15 | 79/0.12 | 0.35 | 4.00 | 94.20 |
| | | 22 | 17/0.16 | 0.26 | 1.30 | 90/0.12 | 0.35 | 4.40 | 59.40 |
| | | 20 | 21/0.178 | 0.26 | 1.50 | 103/0.12 | 0.35 | 4.90 | 36.70 |
| | | 18 | 34/0.178 | 0.26 | 1.70 | 120/0.12 | 0.35 | 5.60 | 23.20 |
| UL2851CSA (Stranded) | 6C | 30 | 7/0.10 | 0.23 | 0.75 | 59/0.12 | 0.35 | 3.20 | 381.00 |
| | | 28 | 7/0.127 | 0.26 | 0.90 | 71/0.12 | 0.35 | 3.70 | 239.00 |
| | | 26 | 7/0.16 | 0.26 | 1.00 | 79/0.12 | 0.35 | 4.00 | 150.00 |
| | | 24 | 11/0.16 | 0.26 | 1.15 | 88/0.12 | 0.35 | 4.40 | 94.20 |
| | | 22 | 17/0.16 | 0.26 | 1.30 | 101/0.12 | 0.35 | 4.80 | 59.40 |
| | | 20 | 21/0.178 | 0.26 | 1.50 | 114/0.12 | 0.35 | 5.40 | 36.70 |
| UL2851CSA (Stranded) | 7C | 30 | 7/0.10 | 0.23 | 0.75 | 59/0.12 | 0.35 | 4.50 | 381.00 |
| | | 28 | 7/0.127 | 0.26 | 0.90 | 71/0.12 | 0.35 | 3.20 | 239.00 |
| | | 26 | 7/0.16 | 0.26 | 1.00 | 79/0.12 | 0.35 | 4.00 | 150.00 |
| | | 24 | 11/0.16 | 0.26 | 1.15 | 88/0.12 | 0.35 | 4.40 | 94.20 |
| | | 22 | 17/0.16 | 0.26 | 1.30 | 101/0.12 | 0.35 | 4.80 | 59.40 |
| | | 20 | 21/0.178 | 0.26 | 1.50 | 114/0.12 | 0.35 | 5.40 | 36.70 |

# Multi-conductor Cables

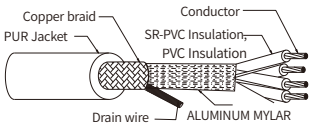
## PUR Jacket cables

Polyurethane has become increasingly important in the cable industry over the past years. This material shows at certain temperatures mechanical characteristics similar to rubber. The combination of thermoplastic and elastic characteristics has led to the description TPE thermoplastic elastomere.

These cables are designed for flexible uses and free movements under medium mechanical stress. The PUR jacket enables the cable to be with the good abrasion and tear resistant features, making them suitable to be used in the machinery, tool making and plant industry.

# Multi-conductor Cable

## UL20233 Multi-conductor Shielded Cable




RoHS

## Product Description

- Tinned, annealed, stranded or solid copper conductor.
- PVC insulation
- PUR jacket
- Tinned or bare copper wire spiral or braid shield
- Rated temperature: 80°C, Rated voltage: 300Volts
- Pass UL VW-1&CUL FT2 vertical flame test

## Applications

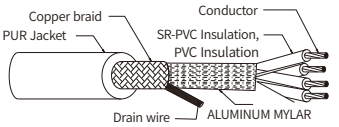
- For external wiring of systems equipment and electronic equipment.

## Technical Data

| UL Style& CSA Type | Cores | Conductor | | Insulation Thickness | Nom. Dia | Shield Coverage | Jacket Thickness | Overall Diameter | Conductor Resistance at 20°C |
|---|---|---|---|---|---|---|---|---|---|
| | | Gauge | No./OD | | | | | | |
| | | AWG | No./mm | mm | mm | % | mm | mm | Ω/KM |
| UL20233CUL (Stranded) | 2C | 30 | 7/0.100 | 0.76 | 1.90 | ≥65 | 1.15 | 6.20 | 381.00 |
| | | 28 | 7/0.127 | 0.76 | 2.00 | ≥65 | 1.15 | 6.40 | 239.00 |
| | | 26 | 7/0.16 | 0.76 | 2.10 | ≥65 | 1.15 | 6.60 | 150.00 |
| | | 24 | 11/0.16 | 0.76 | 2.20 | ≥65 | 1.15 | 6.80 | 94.20 |
| | | 22 | 17/0.16 | 0.76 | 2.40 | ≥65 | 1.15 | 7.20 | 59.40 |
| | | 20 | 21/0.178 | 0.76 | 2.50 | ≥65 | 1.15 | 7.40 | 36.70 |
| | | 18 | 34/0.178 | 0.76 | 2.80 | ≥65 | 1.15 | 8.00 | 23.20 |
| | | 16 | 26/0.25 | 0.76 | 3.10 | ≥65 | 1.15 | 8.50 | 14.60 |
| UL20233CUL (Stranded) | 3C | 30 | 7/0.100 | 0.76 | 1.90 | ≥65 | 1.15 | 6.40 | 381.00 |
| | | 28 | 7/0.127 | 0.76 | 2.00 | ≥65 | 1.15 | 6.60 | 239.00 |
| | | 26 | 7/0.16 | 0.76 | 2.10 | ≥65 | 1.15 | 6.80 | 150.00 |
| | | 24 | 11/0.16 | 0.76 | 2.20 | ≥65 | 1.15 | 7.00 | 94.20 |
| | | 22 | 17/0.16 | 0.76 | 2.40 | ≥65 | 1.15 | 7.60 | 59.40 |
| | | 20 | 21/0.178 | 0.76 | 2.50 | ≥65 | 1.15 | 7.80 | 36.70 |
| | | 18 | 34/0.178 | 0.76 | 2.80 | ≥65 | 1.15 | 8.50 | 23.20 |
| UL20233CUL (Stranded) | 4C | 30 | 7/0.100 | 0.76 | 1.90 | ≥65 | 1.15 | 7.00 | 381.00 |
| | | 28 | 7/0.127 | 0.76 | 2.00 | ≥65 | 1.15 | 7.20 | 239.00 |
| | | 26 | 7/0.16 | 0.76 | 2.10 | ≥65 | 1.15 | 7.40 | 150.00 |
| | | 24 | 11/0.16 | 0.76 | 2.20 | ≥65 | 1.15 | 7.60 | 94.20 |
| | | 22 | 17/0.16 | 0.76 | 2.40 | ≥65 | 1.15 | 8.20 | 59.40 |
| | | 20 | 21/0.178 | 0.76 | 2.50 | ≥65 | 1.15 | 8.50 | 36.70 |
| UL20233CUL (Stranded) | 5C | 30 | 7/0.100 | 0.76 | 1.90 | ≥65 | 1.15 | 7.60 | 381.00 |
| | | 28 | 7/0.127 | 0.76 | 2.00 | ≥65 | 1.15 | 7.80 | 239.00 |
| | | 26 | 7/0.16 | 0.76 | 2.10 | ≥65 | 1.15 | 8.00 | 150.00 |
| | | 24 | 11/0.16 | 0.76 | 2.20 | ≥65 | 1.15 | 8.40 | 94.20 |
| UL20233CUL (Stranded) | 6C | 22 | 17/0.16 | 0.76 | 2.40 | ≥65 | 1.15 | 8.80 | 59.40 |
| | | 30 | 7/0.100 | 0.76 | 1.90 | ≥65 | 1.15 | 8.00 | 381.00 |
| | | 28 | 7/0.127 | 0.76 | 2.00 | ≥65 | 1.15 | 8.40 | 239.00 |
| | | 26 | 7/0.16 | 0.76 | 2.10 | ≥65 | 1.15 | 8.60 | 150.00 |
| | | 24 | 11/0.16 | 0.76 | 2.20 | ≥65 | 1.15 | 9.00 | 94.20 |

# Multi-conductor Cable

## UL20234 Multi-Conductor Shielded Cable




RoHS

## Product Description

- Tinned, annealed, stranded or solid copper conductor.
- PVC insulation
- PUR jacket
- Tinned or bare copper wire spiral or braid shield
- Rated temperature: 80°C, Rated voltage: 600Volts,1000Volts
- Pass UL VW-1&CUL FT2 vertical flame test

## Applications

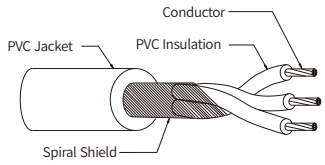
- For external wiring of systems equipment and electronic equipment.

## Technical Data

| UL Style& CSA Type | Cores | Conductor | | Insulation Thickness | Nom. Dia | Shield Coverage | Jacket Thickness | Overall Diameter | Conductor Resistance at 20°C |
|---|---|---|---|---|---|---|---|---|---|
| | | Gauge | No./OD | | | | | | |
| | | AWG | No./mm | mm | mm | % | mm | mm | Ω/KM |
| UL20234CUL (Stranded) | 2C | 30 | 7/0.100 | 0.76 | 1.90 | ≥65 | 1.15 | 6.20 | 381.00 |
| | | 28 | 7/0.127 | 0.76 | 2.00 | ≥65 | 1.15 | 6.40 | 239.00 |
| | | 26 | 7/0.16 | 0.76 | 2.10 | ≥65 | 1.15 | 6.60 | 150.00 |
| | | 24 | 11/0.16 | 0.76 | 2.20 | ≥65 | 1.15 | 6.80 | 94.20 |
| | | 22 | 17/0.16 | 0.76 | 2.40 | ≥65 | 1.15 | 7.20 | 59.40 |
| | | 20 | 21/0.178 | 0.76 | 2.50 | ≥65 | 1.15 | 7.40 | 36.70 |
| | | 18 | 34/0.178 | 0.76 | 2.80 | ≥65 | 1.15 | 8.00 | 23.20 |
| | | 16 | 26/0.25 | 0.76 | 3.10 | ≥65 | 1.15 | 8.50 | 14.60 |
| UL20234CUL (Stranded) | 3C | 30 | 7/0.100 | 0.76 | 1.90 | ≥65 | 1.15 | 6.40 | 381.00 |
| | | 28 | 7/0.127 | 0.76 | 2.00 | ≥65 | 1.15 | 6.60 | 239.00 |
| | | 26 | 7/0.16 | 0.76 | 2.10 | ≥65 | 1.15 | 6.80 | 150.00 |
| | | 24 | 11/0.16 | 0.76 | 2.20 | ≥65 | 1.15 | 7.00 | 94.20 |
| | | 22 | 17/0.16 | 0.76 | 2.40 | ≥65 | 1.15 | 7.60 | 59.40 |
| | | 20 | 21/0.178 | 0.76 | 2.50 | ≥65 | 1.15 | 7.80 | 36.70 |
| | | 18 | 34/0.178 | 0.76 | 2.80 | ≥65 | 1.15 | 8.50 | 23.20 |
| UL20234CUL (Stranded) | 4C | 30 | 7/0.100 | 0.76 | 1.90 | ≥65 | 1.15 | 7.00 | 381.00 |
| | | 28 | 7/0.127 | 0.76 | 2.00 | ≥65 | 1.15 | 7.20 | 239.00 |
| | | 26 | 7/0.16 | 0.76 | 2.10 | ≥65 | 1.15 | 7.40 | 150.00 |
| | | 24 | 11/0.16 | 0.76 | 2.20 | ≥65 | 1.15 | 7.60 | 94.20 |
| | | 22 | 17/0.16 | 0.76 | 2.40 | ≥65 | 1.15 | 8.20 | 59.40 |
| | | 20 | 21/0.178 | 0.76 | 2.50 | ≥65 | 1.15 | 8.50 | 36.70 |
| UL20234CUL (Stranded) | 5C | 30 | 7/0.100 | 0.76 | 1.90 | ≥65 | 1.15 | 7.60 | 381.00 |
| | | 28 | 7/0.127 | 0.76 | 2.00 | ≥65 | 1.15 | 7.80 | 239.00 |
| | | 26 | 7/0.16 | 0.76 | 2.10 | ≥65 | 1.15 | 8.00 | 150.00 |
| | | 24 | 11/0.16 | 0.76 | 2.20 | ≥65 | 1.15 | 8.40 | 94.20 |
| | | 22 | 17/0.16 | 0.76 | 2.40 | ≥65 | 1.15 | 8.80 | 59.40 |
| UL20234CUL (Stranded) | 6C | 30 | 7/0.100 | 0.76 | 1.90 | ≥65 | 1.15 | 8.00 | 381.00 |
| | | 28 | 7/0.127 | 0.76 | 2.00 | ≥65 | 1.15 | 8.40 | 239.00 |
| | | 26 | 7/0.16 | 0.76 | 2.10 | ≥65 | 1.15 | 8.60 | 150.00 |
| | | 24 | 11/0.16 | 0.76 | 2.20 | ≥65 | 1.15 | 9.00 | 94.20 |

# Multi-conductor Cable

## UL20236 Multi-Conductor Shielded Cable




RoHS

## Product Description

- Tinned, annealed, stranded or solid copper conductor.
- PP PE FR-PE PVC insulation
- PUR jacket
- Tinned or bare copper wire spiral or braid shield
- Rated temperature: 80°C, Rated voltage:30Volts
- Pass UL VW-1&CUL FT2 vertical flame test

## Applications

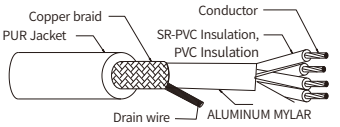
- For external wiring of systems equipment and electronic equipment.

## Technical Data

| UL Style& CSA Type | Cores | Conductor | | Insulation Thickness | Nom. Dia | Shield Coverage | Jacket Thickness | Overall Diameter | Conductor Resistance at 20°C |
|---|---|---|---|---|---|---|---|---|---|
| | | Gauge | No./OD | | | | | | |
| | | AWG | No./mm | mm | mm | % | mm | mm | Ω/KM |
| UL20236CUL (Stranded) | 2C | 30 | 7/0.100 | 0.23 | 0.80 | ≥65 | 0.76 | 3.70 | 381.00 |
| | | 28 | 7/0.127 | 0.23 | 0.90 | ≥65 | 0.76 | 4.00 | 239.00 |
| | | 26 | 7/0.16 | 0.23 | 1.00 | ≥65 | 0.76 | 4.20 | 150.00 |
| | | 24 | 11/0.16 | 0.23 | 1.10 | ≥65 | 0.76 | 4.40 | 94.20 |
| | | 22 | 17/0.16 | 0.23 | 1.30 | ≥65 | 0.76 | 4.70 | 59.40 |
| | | 20 | 21/0.178 | 0.23 | 1.50 | ≥65 | 0.76 | 5.20 | 36.70 |
| | | 18 | 34/0.178 | 0.23 | 1.80 | ≥65 | 0.76 | 5.80 | 23.20 |
| | | 16 | 26/0.25 | 0.23 | 2.00 | ≥65 | 0.76 | 6.20 | 14.60 |
| UL20236CUL (Stranded) | 3C | 30 | 7/0.100 | 0.23 | 0.80 | ≥65 | 0.76 | 3.80 | 381.00 |
| | | 28 | 7/0.127 | 0.23 | 0.90 | ≥65 | 0.76 | 4.00 | 239.00 |
| | | 26 | 7/0.16 | 0.23 | 1.00 | ≥65 | 0.76 | 4.20 | 150.00 |
| | | 24 | 11/0.16 | 0.23 | 1.10 | ≥65 | 0.76 | 4.50 | 94.20 |
| | | 22 | 17/0.16 | 0.23 | 1.30 | ≥65 | 0.76 | 4.90 | 59.40 |
| | | 20 | 21/0.178 | 0.23 | 1.50 | ≥65 | 0.76 | 5.40 | 36.70 |
| | | 18 | 34/0.178 | 0.23 | 1.80 | ≥65 | 0.76 | 6.00 | 23.20 |
| UL20236CUL (Stranded) | 4C | 30 | 7/0.100 | 0.23 | 0.80 | ≥65 | 0.76 | 4.00 | 381.00 |
| | | 28 | 7/0.127 | 0.23 | 0.90 | ≥65 | 0.76 | 4.30 | 239.00 |
| | | 26 | 7/0.16 | 0.23 | 1.00 | ≥65 | 0.76 | 4.50 | 150.00 |
| | | 24 | 11/0.16 | 0.23 | 1.10 | ≥65 | 0.76 | 4.80 | 94.20 |
| | | 22 | 17/0.16 | 0.23 | 1.30 | ≥65 | 0.76 | 5.30 | 59.40 |
| | | 20 | 21/0.178 | 0.23 | 1.50 | ≥65 | 0.76 | 5.60 | 36.70 |
| UL20236CUL (Stranded) | 5C | 30 | 7/0.100 | 0.23 | 0.80 | ≥65 | 0.76 | 4.30 | 381.00 |
| | | 28 | 7/0.127 | 0.23 | 0.90 | ≥65 | 0.76 | 4.50 | 239.00 |
| | | 26 | 7/0.16 | 0.23 | 1.00 | ≥65 | 0.76 | 4.80 | 150.00 |
| | | 24 | 11/0.16 | 0.23 | 1.10 | ≥65 | 0.76 | 5.00 | 94.20 |
| UL20236CUL (Stranded) | 6C | 22 | 17/0.16 | 0.23 | 1.30 | ≥65 | 0.76 | 5.60 | 59.40 |
| | | 30 | 7/0.100 | 0.23 | 0.80 | ≥65 | 0.76 | 4.50 | 381.00 |
| | | 28 | 7/0.127 | 0.23 | 0.90 | ≥65 | 0.76 | 4.80 | 239.00 |
| | | 26 | 7/0.16 | 0.23 | 1.00 | ≥65 | 0.76 | 5.20 | 150.00 |
| | | 24 | 11/0.16 | 0.23 | 1.10 | ≥65 | 0.76 | 5.40 | 94.20 |

# Multi-conductor Cable

## UL20549 Multi-Conductor Shielded Cable




RoHS

## Product Description

- Tinned, annealed, stranded or solid copper conductor.
- PVC/SR-PVC/PP/TPU/XL-PE insulation.
- PUR jacket
- Tinned or bare copper wire spiral or braid shield
- Rated temperature: 80°C, Rated voltage: 300Volts
- Pass UL VW-1&CUL FT2 vertical flame test

## Applications

- For general purpose internal wiring of electronic and electrical equipment.

## Technical Data

| UL Style& CSA Type | Cores | Conductor | | Insulation Thickness | Nom. Dia | Drain Wire | Overall shield | | Jacket Thickness | Overall Diameter | Conductor Resistance at 20°C |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Gauge | No./OD | | | | Material | Spiral/Braids | | | |
| | | AWG | No./mm | mm | mm | NO./mm | mm | NO./No.mm | mm | mm | Ω/KM |
| UL20549 CAS (Stranded) | 2C | 30 | 7/0.10 | 0.25 | 0.80 | 7/0.10 | AL | ⩾65% | 0.6 | 3.00 | 381.0 |
| | | 28 | 7/0.127 | | 0.90 | 7/0.127 | AL | ⩾65% | | 3.20 | 239.0 |
| | | 26 | 7/0.16 | | 1.00 | 7/0.16 | AL | ⩾65% | | 3.50 | 150.0 |
| | | 24 | 11/0.16 | | 1.10 | 11/0.16 | AL | ⩾65% | | 3.80 | 94.20 |
| | | 22 | 17/0.16 | | 1.30 | 17/0.16 | AL | ⩾65% | | 4.20 | 59.40 |
| | | 20 | 21/0.178 | | 1.50 | 21/0.178 | AL | ⩾65% | | 4.60 | 36.70 |
| | | 18 | 34/0.178 | | 1.80 | 34/0.178 | AL | ⩾65% | | 5.20 | 23.20 |
| UL20549 CAS (Stranded) | 3C | 30 | 7/0.10 | 0.25 | 0.80 | 7/0.10 | AL | ⩾65% | 0.6 | 3.20 | 381.0 |
| | | 28 | 7/0.127 | | 0.90 | 7/0.127 | AL | ⩾65% | | 3.60 | 239.0 |
| | | 26 | 7/0.16 | | 1.00 | 7/0.16 | AL | ⩾65% | | 3.90 | 150.0 |
| | | 24 | 11/0.16 | | 1.10 | 11/0.16 | AL | ⩾65% | | 4.20 | 94.20 |
| | | 22 | 17/0.16 | | 1.30 | 17/0.16 | AL | ⩾65% | | 4.40 | 59.40 |
| | | 20 | 21/0.178 | | 1.50 | 21/0.178 | AL | ⩾65% | | 4.90 | 36.70 |
| | | 18 | 34/0.178 | | 1.80 | 34/0.178 | AL | ⩾65% | | 5.60 | 23.20 |
| UL20549 CAS (Stranded) | 4C | 30 | 7/0.10 | 0.25 | 0.80 | 7/0.10 | AL | ⩾65% | 0.8 | 3.80 | 381.0 |
| | | 28 | 7/0.127 | | 0.90 | 7/0.127 | AL | ⩾65% | | 4.30 | 239.0 |
| | | 26 | 7/0.16 | | 1.00 | 7/0.16 | AL | ⩾65% | | 4.60 | 150.0 |
| | | 24 | 11/0.16 | | 1.10 | 11/0.16 | AL | ⩾65% | | 4.80 | 94.20 |
| | | 22 | 17/0.16 | | 1.30 | 17/0.16 | AL | ⩾65% | | 5.30 | 59.40 |
| | | 20 | 21/0.178 | | 1.50 | 21/0.178 | AL | ⩾65% | | 5.80 | 36.70 |
| | | 18 | 34/0.178 | | 1.80 | 34/0.178 | AL | ⩾65% | | 6.60 | 23.20 |
| UL20549 CAS (Stranded) | 5C | 30 | 7/0.10 | 0.25 | 0.80 | 7/0.10 | AL | ⩾65% | 0.8 | 4.30 | 381.00 |
| | | 28 | 7/0.127 | | 0.90 | 7/0.127 | AL | ⩾65% | | 4.70 | 239.00 |
| | | 26 | 7/0.16 | | 1.00 | 7/0.16 | AL | ⩾65% | | 5.00 | 150.00 |
| | | 24 | 11/0.16 | | 1.10 | 11/0.16 | AL | ⩾65% | | 5.40 | 94.20 |
| | | 22 | 17/0.16 | | 1.30 | 17/0.16 | AL | ⩾65% | | 5.80 | 59.40 |
| | | 20 | 21/0.178 | | 1.50 | 21/0.178 | AL | ⩾65% | | 6.40 | 36.70 |
| | | 18 | 34/0.178 | | 1.80 | 34/0.178 | AL | ⩾65% | | 7.00 | 23.20 |
| UL20549 CAS (Stranded) | 6C | 30 | 7/0.10 | 0.25 | 0.80 | 7/0.10 | AL | ⩾65% | 0.8 | 4.60 | 381.00 |
| | | 28 | 7/0.127 | | 0.90 | 7/0.127 | AL | ⩾65% | | 4.90 | 239.00 |
| | | 26 | 7/0.16 | | 1.00 | 7/0.16 | AL | ⩾65% | | 5.40 | 150.00 |
| | | 24 | 11/0.16 | | 1.10 | 11/0.16 | AL | ⩾65% | | 5.60 | 94.20 |
| | | 22 | 17/0.16 | | 1.30 | 17/0.16 | AL | ⩾65% | | 6.30 | 59.40 |
| | | 20 | 21/0.178 | | 1.50 | 21/0.178 | AL | ⩾65% | | 6.80 | 36.70 |
| | | 18 | 34/0.178 | | 1.80 | 34/0.178 | AL | ⩾65% | | 7.80 | 23.20 |

# Multi-conductor Cable

## 100M/Reel PUR Cables for Field Installable/Assembly Connectors

- Do you ever have this experience: after buying field installable/assembly connectors, you haveto purchase related cables from another supplier?
- Finecables is now offering real one-stop service by providing a wide range of 100M/Reel PUR cables in cartons to meet customer demands. Thus enables you to buy not only field installable/assembly connectors, but also cables at a more competitive price from only a single source. The package unit contains a cable length of 100M/Reel.
- You can select exactly the right cable for your application from a range of core counts, cross-sections, wire gauges and wire structures. All of the cables are UL-approved and used forapplicable connector of M8/M12/M16/7/8"/Industrial I/O series etc.
- One-stop services are always at your disposal. Look forward to further cooperation with you.

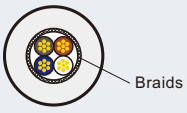
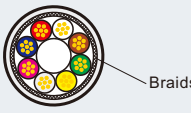
# Multi-conductor Cable

## Specification of Cable

### Specification of Unshielded Cable

| Ordering No. | | | | | |
|---|---|---|---|---|---|
| | 1006266 | 1006187 | 1006128 | 1006267 | 1006208 |
| Cores | 3 | 3 | 4 | 5 | 8 |
| Wire gauge/mm$^2$ | 3C*0.25/24AWG | 3C*0.34/22AWG | 4C*0.25/24AWG | 5C*0.34/22AWG | 8C*0.25/24AWG |
| Cable jacket(black) | PUR | PUR | PUR | PUR | PUR |
| Insulation wire | PVC | PVC | PVC | PVC | PVC |
| Conductor configuration(mm) | 11/0.16 | 42/0.1 | 23/0.12 | 30/0.12 | 11/0.16 |
| Cable OD(mm) | 4.2 | 4.3 | 4.4 | 5.5 | 6 |
| Resistance of wire | 91.82Ω/KM | 37.56Ω/KM | 80.43Ω/KM | 62.83Ω/KM | 94.2Ω/KM |
| Ambient temperature | -10°C~+80°C | -10°C~+80°C | -10°C~+80°C | -10°C~+80°C | -10°C~+80°C |
| Bending radius(cable in move) | min.15xΦ | min.15xΦ | min.15xΦ | min.15xΦ | min.15xΦ |
| Bending radius(cable not in move) | min.12xΦ | min.12xΦ | min.12xΦ | min.12xΦ | min.12xΦ |
| UL model | UL20549 | UL20549 | UL20549 | UL20549 | UL20549 |

### Specification of shielded Cable

| Ordering No. |  |  |
|---|---|---|
| | 1006198 | 1006343 |
| Cores | 4 | 8 |
| Wire gauge/mm$^2$ | 4C*0.34/22AWG | 8C*0.25/22AWG |
| Cable jacket(black) | PUR | PUR |
| Insulation wire | PVC | PVC |
| Conductor configuration(mm) | 17x0.16 | 11/0.16 |
| Cable OD(mm) | 5 | 6 |
| Resistance of wire | 59.4Ω/KM | 94.2Ω/KM |
| Ambient temperature | -10°C~+80°C | -10°C~+80°C |
| Bending radius(cable in move) | min.15xΦ | min.15xΦ |
| Bending radius(cable not in move) | min.12xΦ | min.12xΦ |
| UL model | UL20549 | UL20549 |

# Technical information

## American Wire Gauge and VDE Wire Gauge (in mm2)

### America Wire Gauge (AWG)

Since various areas of the industry are also using wires according to the American Wire Gauge (AWG) the following comparison chart is included to allow a cross reference between AWG and metric wire sizes ($mm^2$).

| AWG | Wire construction (mm) | Wire dia (mm) | Wire gauge ($mm^2$) |
|---|---|---|---|
| 30 | 1x0.25 | 0.25 | 0.05 |
| | 7x0.10 | 0.36 | 0.06 |
| 28 | 1x0.32 | 0.32 | 0.08 |
| | 7x0.13 | 0.38 | 0.09 |
| 26 | 1x0.40 | 0.40 | 0.13 |
| | 7x0.16 | 0.48 | 0.14 |
| | 19x0.10 | 0.51 | 0.15 |
| 24 | 1x0.51 | 0.51 | 0.21 |
| | 7x0.20 | 0.61 | 0.22 |
| | 19x0.13 | 0.64 | 0.25 |
| 22 | 1x0.64 | 0.64 | 0.33 |
| | 7x0.25 | 0.76 | 0.34 |
| | 19x0.16 | 0.81 | 0.38 |
| 20 | 1x0.81 | 0.81 | 0.52 |
| | 7x0.32 | 0.97 | 0.56 |
| | 19x0.20 | 1.02 | 0.60 |
| 18 | 1x1.02 | 1.02 | 0.82 |
| | 19x0.25 | 1.27 | 0.93 |
| 16 | 19x0.29 | 1.44 | 1.25 |
| 14 | 19x0.36 | 1.80 | 1.93 |
| 12 | 19x0.46 | 2.29 | 3.16 |
| 10 | 37x0.40 | 3.10 | 4.65 |

It has to be noted that wires of the same AWG number but with different composition have slightly different $mm^2$!

### Wire Gauge (VDE 0259)

Composition and dimensions of commonly used copper wires based on VDE 0259

| Wire gauge ($mm^2$) | Wire construction (mm) | Wire dia. (mm) |
|---|---|---|
| 0.09 | 12x0.10 | 0.5 |
| 0.14 | 18x0.10 | 0.5 |
| 0.25 | 14x0.16 | 0.7 |
| | 32x0.10 | 0.7 |
| 0.34 | 19x0.16 | 0.8 |
| | 42x0.10 | 0.9 |
| 0.5 | 7x0.30 | 1.0 |
| | 16x0.21 | 1.1 |
| | 28x0.16 | 1.1 |
| 0.7 | 7x0.37 | 1.2 |
| | 24x0.21 | 1.2 |
| | 42x0.16 | 1.3 |
| 1.0 | 7x0.43 | 1.4 |
| | 32x0.21 | 1.4 |
| | 56x0.16 | 1.5 |
| 1.5 | 7x0.52 | 1.6 |
| | 30x0.26 | 1.7 |
| | 84x0.16 | 1.8 |
| 2.5 | 7x0.67 | 2.2 |
| | 50x0.26 | 2.3 |
| | 140x0.16 | 2.3 |
| 4.0 | 7x0.85 | 2.7 |
| | 56x0.31 | 2.8 |
| | 224x0.16 | 2.9 |

## General user information

### Connectors

Connectors are components which in normal use (under live) are not to be engaged or disengaged under live.

### Plug and socket devices

(under live or load) may be engaged or disengaged when live or under load.

### Termination methods

- **Screw connection**

A screw connection is a detachable electrical connection between a conductor and a screw clamp. Screw clamps are designed acc. to DIN/EN 60999/VDE 0609. The chart below shows the screw size and the required clamping and testing torque.

| Screw size | M2.5 | M3 | M3.5 |
|---|---|---|---|
| Torque (Ncm) | 40 | 50 | 60 |

- **Solder connection**

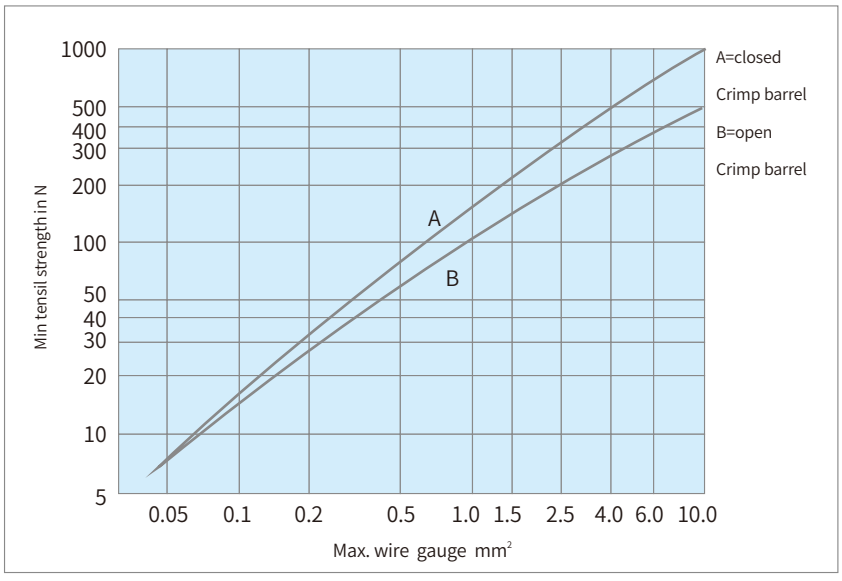
Besides the soldering of single wire with solder irons or soldering machines the method of wave soldering or infra-red vapor phase soldering has gained great importance for connectors for printed boards or flexible wiring.

When wires are soldered it has to be watched that no single strand stick out which could lead to a short circuit and that no large solder joints occur which would reduce the clearance and creepage distances unfavourably.

Testing and valuation of solder joints and the relevant components is regulated in DIN EN 60068 part 2-20.

- **Crimp connection**

A crimp connection is a non-detachable electrical connection between a conductor and a crimp contact produced with the crimp technology. The requirements for crimp connections are defined in DIN IEC 60352 part 2. An important point for the qualitiy of a crimp connection is the achieved tensile strength of the termination. Since easy to measure the tensile strength is a practible means for qualitiy control purposes. The diagram below shows the required minimum tensile strength depending on the wire size.



## IP Code (International Protection Rating )

### Table 1 - Degrees of protection against access to hazardous parts indicated by the first characteristic numeral

| First characteristic numeral | Degree of protection | | Test conditions, see |
|---|---|---|---|
| | Brief description | Definition | |
| 0 | Non-protected | - | - |
| 1 | Protected against access to hazardous parts with the back of a hand | The access probe, sphere of 50 mmΦ, shall have adequate clearance from hazardous parts | 12.2 |
| 2 | Protected against access to hazardous parts with a finger | The jointed test finger of 12 mmΦ. 80 mm length, shall have adequate clearance form hazardous parts | 12.2 |
| 3 | Protected against access to hazardous parts with a tool | The access probe of 2,5 mm ID shall not penetrate | 12.2 |
| 4 | Protected against access to hazardous parts with a wire | The access probe of 1,0 mmΦshall not penetrate | 12.2 |
| 5 | Protected against access to hazardous parts with a wire | The access probe of 1,0 mm Φshall not penetrate | 12.2 |
| 6 | Protected against access to hazardous parts with a wire | The access probe of 1,0 mm Φshall not penetrate | 12.2 |

NOTE:In the case of the first characteristic numerals 3. 4, 5 and 6, protection against access to hazardous parts is satisfied if adequate clearance is kept. The adequate clearance should be specified by the relevant product committee in accordance with 12.3.
Due to the simultaneous requirement specified in table 2, the definition "shall not penetrate" is given in table 1.

Protection against solid foreign objects

Table 2 gives brief descriptions and the definitions for the degrees of protection against the penetration of solid foreign objects including dust.

Degrees of protection listed in this table shall only be specified by the first characteristic numeral and not by reference to the brief description or definition.

The protection against the ingress of solid foreign objects implies that the object probes up to numeral 2 in table 2 shall not fully penetrate the enclosure. This means that the full diameter of the sphere shall not pass through an opening in the enclosure. Object probes for numerals 3 and 4 shall not penetrate the enclosure at all.

Dust-protected enclosures to numeral 5 allow a limited quantity of dust to penetrate under certain conditions.

Dust-tight enclosures to numeral 6 do not allow any dust to penetrate.

NOTE: Enclosures assigned the first characteristic numeral of 1 to 4 generally exclude both regularly and irregularly shaped solid foreign objects provided that three mutually perpendicular dimensions of the object exceed the appropriate figure in column 3 of table 2.

## IP Code (International Protection Rating )

| Enclosure passes test for: | | Designation and marking | Range of application |
|---|---|---|---|
| water jets second characteristic numeral | temporary/continuous immersion second characteristic numeral | | |
| 5 | 7 | IPx5/IPx7 | Versatile |
| 6 | 7 | IPx6/IPx7 | Versatile |
| 5 | 8 | IPx5/IPx8 | Versatile |
| 6 | 8 | IPx6/IPx8 | Versatile |
| - | 7 | IPx7 | Restricted |
| - | 8 | IPx8 | Restricted |

Enclosures for "versatile" application indicated in the last column shall meet requirements for exposure to both water jets and temporary or continuous immersion.

Enclosures for "restricted" application indicated in the last column are considered suitable only for temporary or continuous immersion and unsuitable for exposure to water jets.

**Table 3 - Degrees of protection against water indicated by the second characteristic numeral**

| First characteristic numeral | Degree of protection | | Test conditions, see |
|---|---|---|---|
| | Brief description | Definition | |
| 0 | Non-protected | - | - |
| 1 | Protected against vertically falling water drops | Vertically falling drops shall have no harmful effects | 14.2.1 |
| 2 | Protected against vertically falling water drops when enclosure tilted up to 15 v | Vertically falling drops shall have no harmful effects when the enclosure is tilted at any angle up to 15" on either side of the vertical | 14.2.2 |
| 3 | Protected against spraying water | Water sprayed at an angle up to 60~ on either side of the vertical shall have no harmful effects | 14.2.3 |
| 4 | Protected against spraying water | Water splashed against the enclosure from any direction shall have no harmful effects | 14.2.4 |
| 5 | Protected against water jets | Water projected in jets against the enclosure from any direction shall have no harmful effects | 14.2.5 |
| 6 | Protected against powerful water jets | Water projected in powerful jets against the enclosure from any direction shall have no harmful effects | 14.2.6 |
| 7 | Protected against the effects of temporary immersion in water | Ingress of water in quantities causing harmful effects shall not be possible when the enclosure is temporarily immersed in water under standardized conditions of pressure and time | 14.2.7 |
| 8 | Protected against the effects of continuous immersion in water | Ingress of water in quantities causing harmful effects shall not be possible when the enclosure is continuously immersed in water under conditions which shall be agreed between manufacturer and user but which are more severe than for numeral 7 | 14.2.8 |

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