

2017 Edition

www.finecables.com

Industrial CONNECTORS

B.C.E. ELECTRONICS

FINECABLES®

Passion for connection !









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 portfolio by developing customized products for various applications, which cover not only industrial connectors, but also electronic interconnection and data networking. Our goal is to be your one–stop OEM/ODM source for all custom–designed solutions and services.

Corporate Culture

"Passion for Connection!"
This simple motto outlines Finecables' corporate culture; 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!

Products

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/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 network control (4/6/8–port M5/M8/M12 connectors with 7/8"/M23 connectors)
- Temperature Sensors and Wire/Cable Harness
- Customized Solutions







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.

Quality

Quality is to Finecables 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. ISO 9001:2008 ISO 14001:2004 and OHSAS 18001:2007 represent our quality value.

Finecables fulfills its core value of "Promptness, Excellence, Awareness, and Gratitude", by insisting our long–term partnership and win–win cooperation with both customers and suppliers, to follow our business philosophy–– "Passion for Connection!"







Certificates

E321413
E310634
E343967

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	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*

Certificates

CE

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–EMC	BST12110270Y–1EC–1
M5	CE–LVD	BST12110270Y–1SC–2
M8	CE–EMC	BTRE0708031298
M8	CE–LVD	BTRL0707310407
M8	CE–EMC	BST12110268Y–1EC–1
M8	CE–LVD	BST12110268Y–1SC–2
M12	CE–EMC	BTRE0706080858
M12	CE–LVD	BTRE0706071108
7/8"	CE–EMC	BST12110269Y–1EC–1
7/8"	CE–LVD	BST12110269Y–1SC–2
M23	CE–EMC	BST12060106Y–1EC–1
M23	CE–LVD	BST12060106Y–1ER–1
M23	CE–EMC	BST12060107Y–1EC–1
M23	CE–LVD	BST12060107Y–1SC–2
RJ45	CE–EMC	BST11070093Y–1EC–1
RJ45	CE–LVD	BST11070093Y–1SC–2
Solenoid Valve	CE–EMC	BST10120464Y–1ER–1
Solenoid Valve	CE–LVD	BST10120464Y–1SR–2
Solenoid Valve	CE–EMC	BST10120465Y–1ER–1
Solenoid Valve	CE–LVD	BST10120465Y–1SR–2
Solenoid Valve	CE–EMC	BST10120466Y–1ER–1
Solenoid Valve	CE–LVD	BST10120466Y–1SR–2

Contents


P23

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.


P38

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.


P79

M 9 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.


P87

M10 cables & connectors (Snap-in style)

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.


P96

M12 cables & connectors

The M12 series features sensor and actuator connectors with a locking thread for electronics automation, process control, and commercial electronics. We offer many different cable connectors, panel mounted receptacles, field attachable/installable connectors and various accessories. Our connectors have industry–standard A,B,C, and D cording, for both screw–locking and quick–locking styles.

Contents


P238

M16 cables & connectors

The M16 Series is an ideal choice for intensive industrial and commercial applications. Over–molded cable and panel–mount receptacles are available in various styles and mounting methods. Quick–locking wiring assembly type is also available.


P259

M20 cable & 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 over–molding 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 IP67 rating in fully locked condition.


P267

7/8" Mini-change 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 IP67 rating, with molded cable and panel receptacles available. Contacts are gold–plated, with a stainless steel locking sleeve also available as an option.


P294

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.


P312

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 IP67 rating.

Contents



P320

Solenoid Valve connectors

Our pre–molded valve plugs provide a compact and robust connection solution for the secure transmission of voltages and currents for pneumatic, hydraulic, and electromagnetic actuators. The current range includes versions of A, B, and C set series, with an integrated protective circuit to reduce voltage spikes.



P333

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, Mini–DIN, D–sub connectors, and UHF connectors.



P358

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.



P362

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.

Notes:
1. M means metric thread size. Generally in the form of MX, like M12, it refers to 12mm metric thread size.
2. 7/8" refers to the seven eighths inches. 1 inch=25.4mm
3. RD is the round thread. According to German standards, it has a tooth–type angle of 30 degrees, with top and bottom thread being arc–shaped screw thread size.

Applications

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 & Ship Engineering, Medical Devices, Renewable Energy, Measuring & Testing and Package conveyor and so on.



Industrial Automation



Medical Industry



Telecommunication System



Escalator Control



Railway Transportation System



Boat Navigator & A/V system



LED Lighting



Measuring & Testing



Renewable Energy

Technical information

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

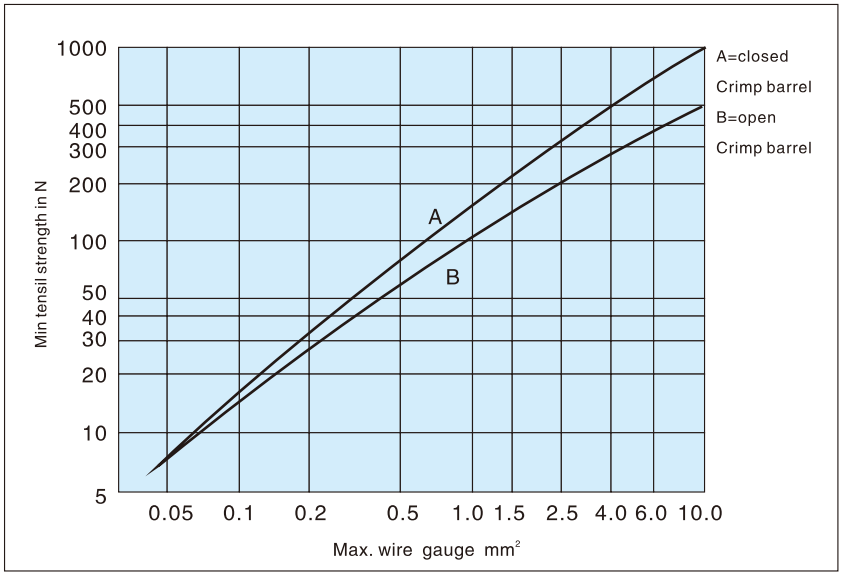
Besides the soldering of single wire with solder irons or soldering machines the method of wave soldering or infra–red vapor phase soldering has gained great importance for connectors for printed boards or flexible wiring.

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.



Technical information

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 mm Φ, 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 mm Φ. 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 mm Φ shall not penetrate	12.2
5	Protected against access to hazardous parts with a wire	The access probe of 1,0 mm Φ shall not penetrate	12.2
6	Protected against access to hazardous parts with a wire	The access probe of 1,0 mm Φ shall 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.

Technical information

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 ˚	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

Technical information

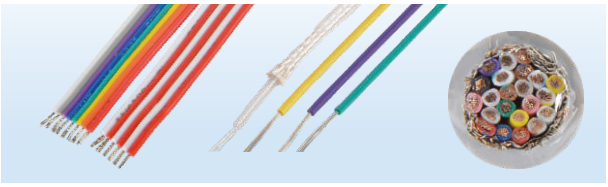
American Wire Gauge and VDE Wire Gauge (in mm^2)

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)

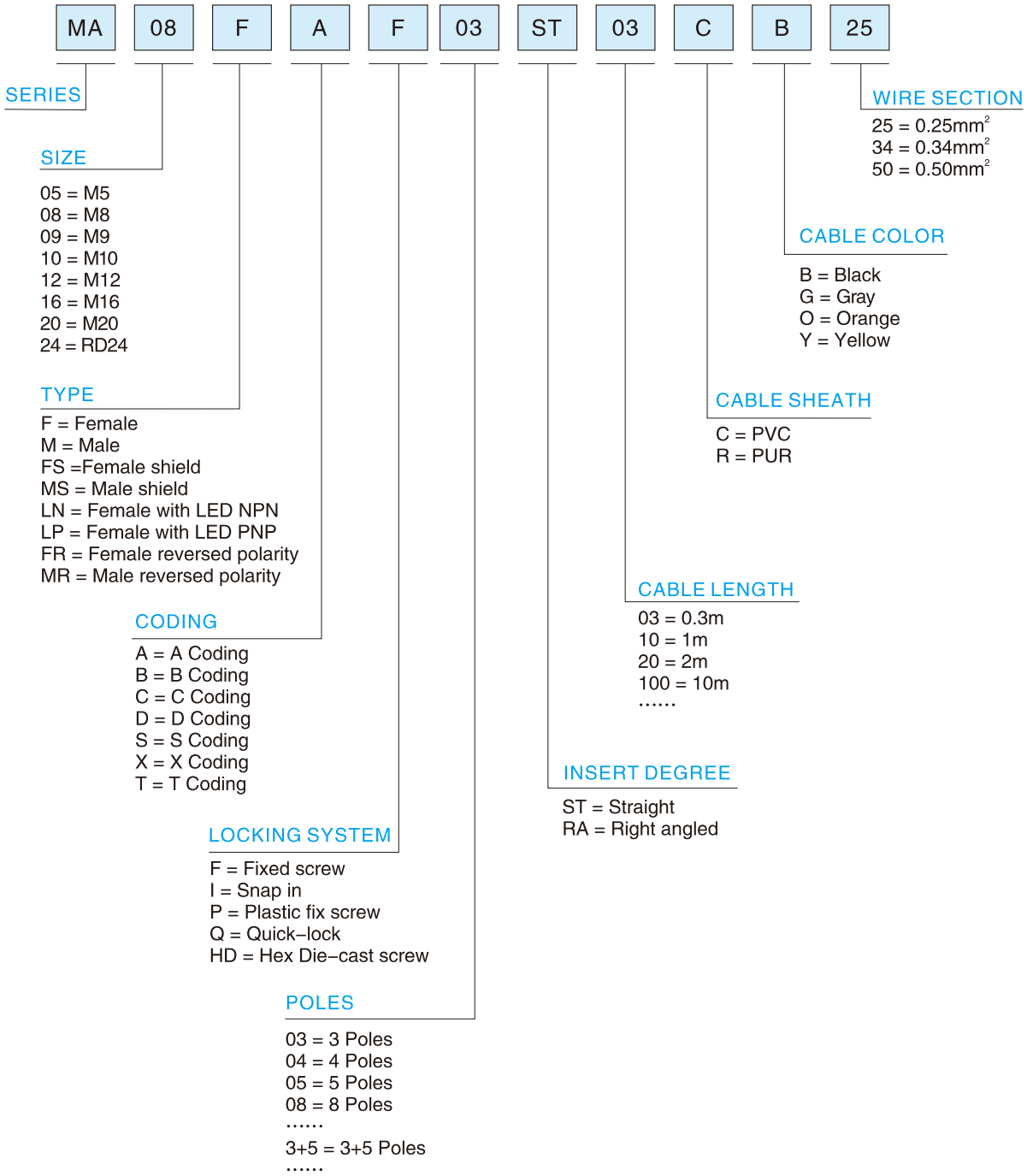
Composition and dimensions of commonly used copper wires based on VDE 0259

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



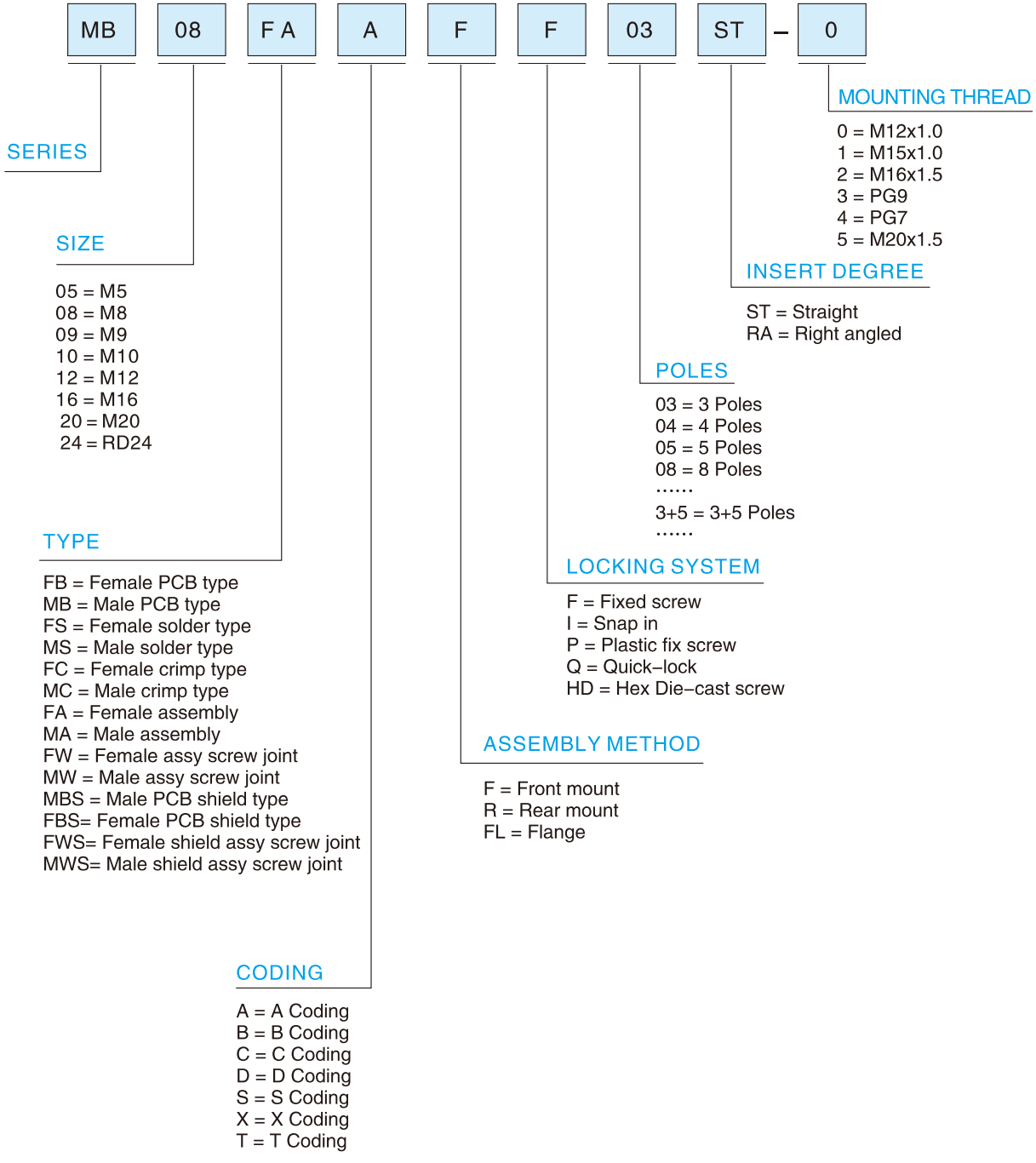
How To Order Part Number

M Series With cable molded



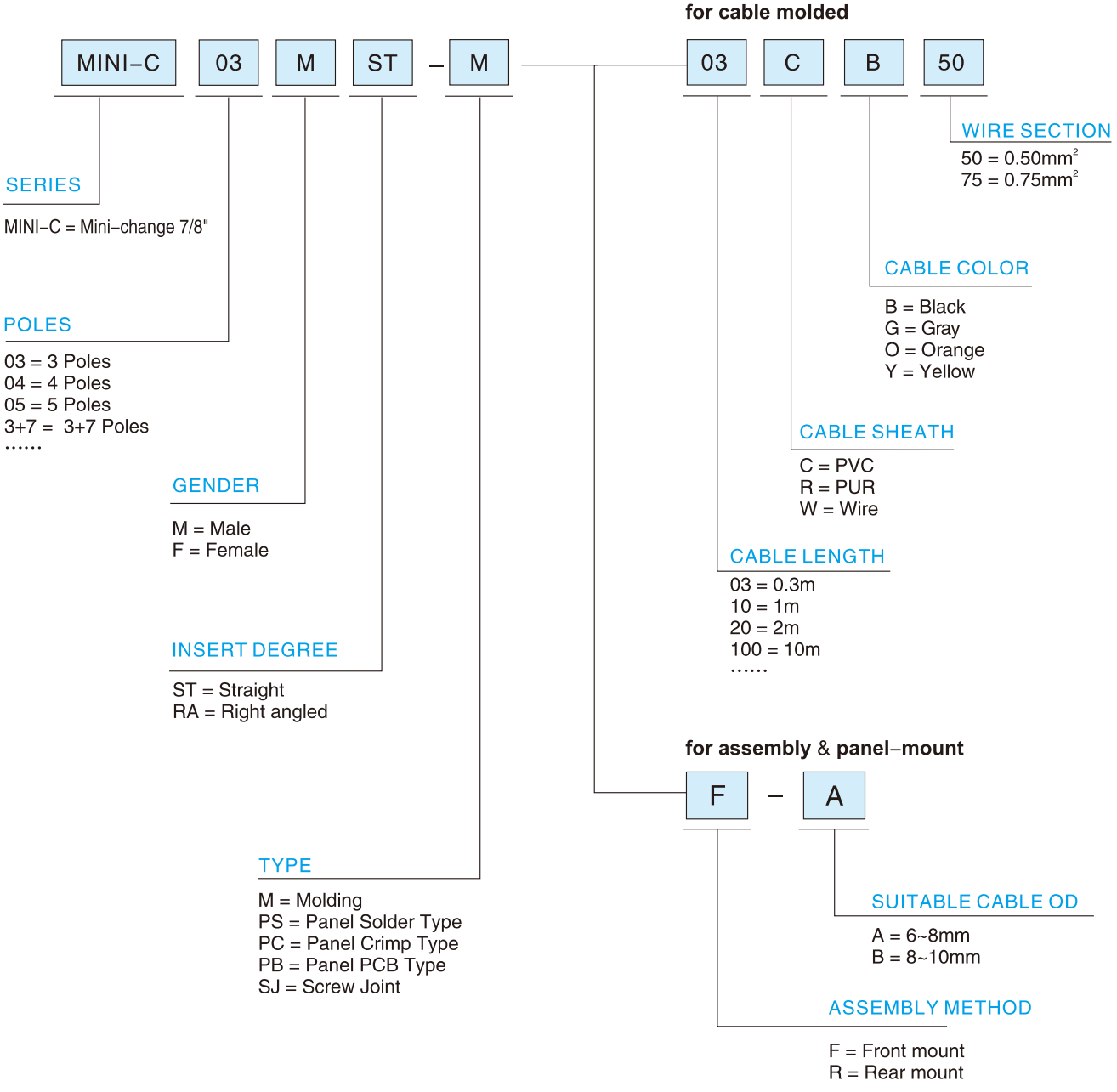
How To Order Part Number

M Series Assembly/Panel–mount type



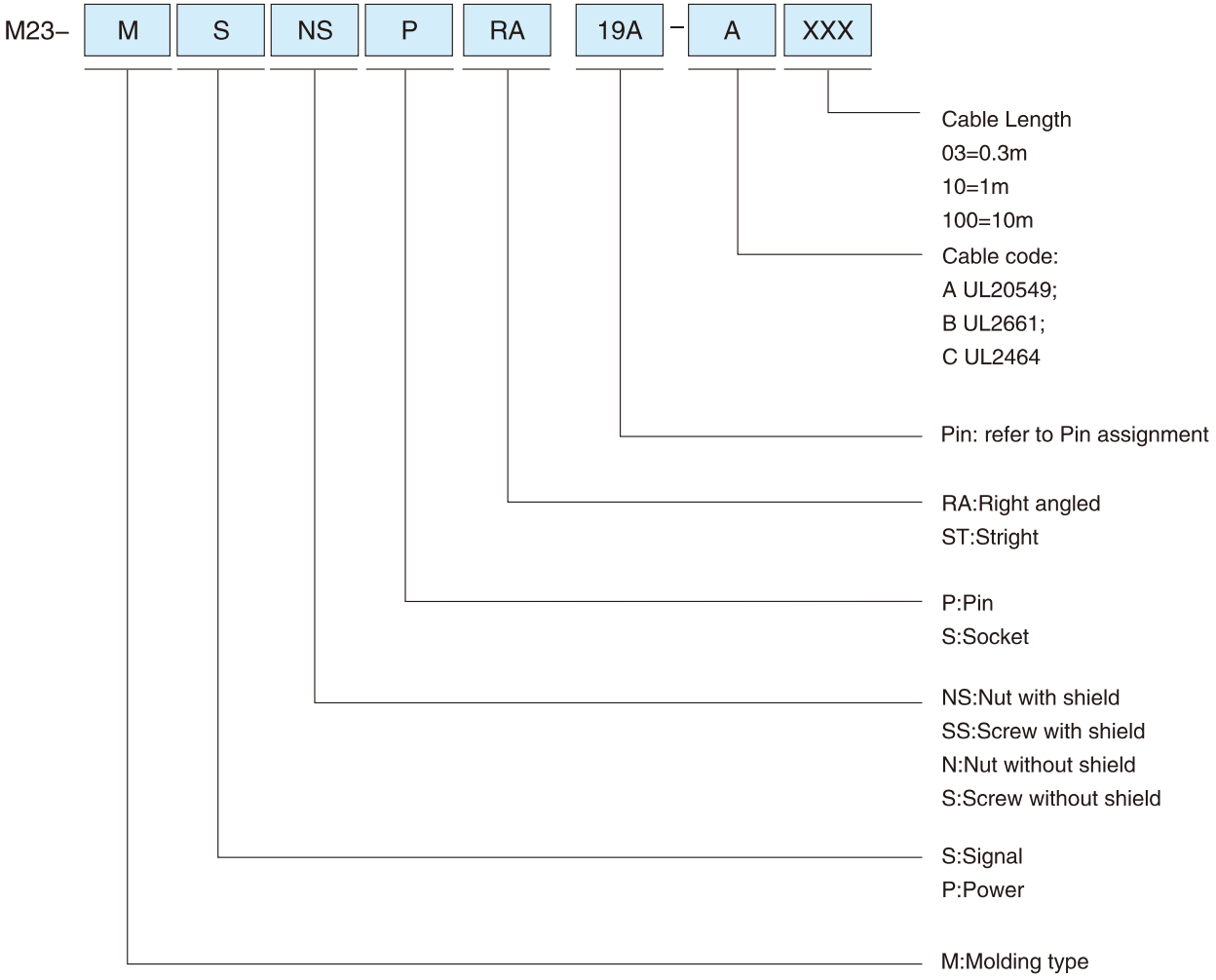
How To Order Part Number

7/8" Series Connectors



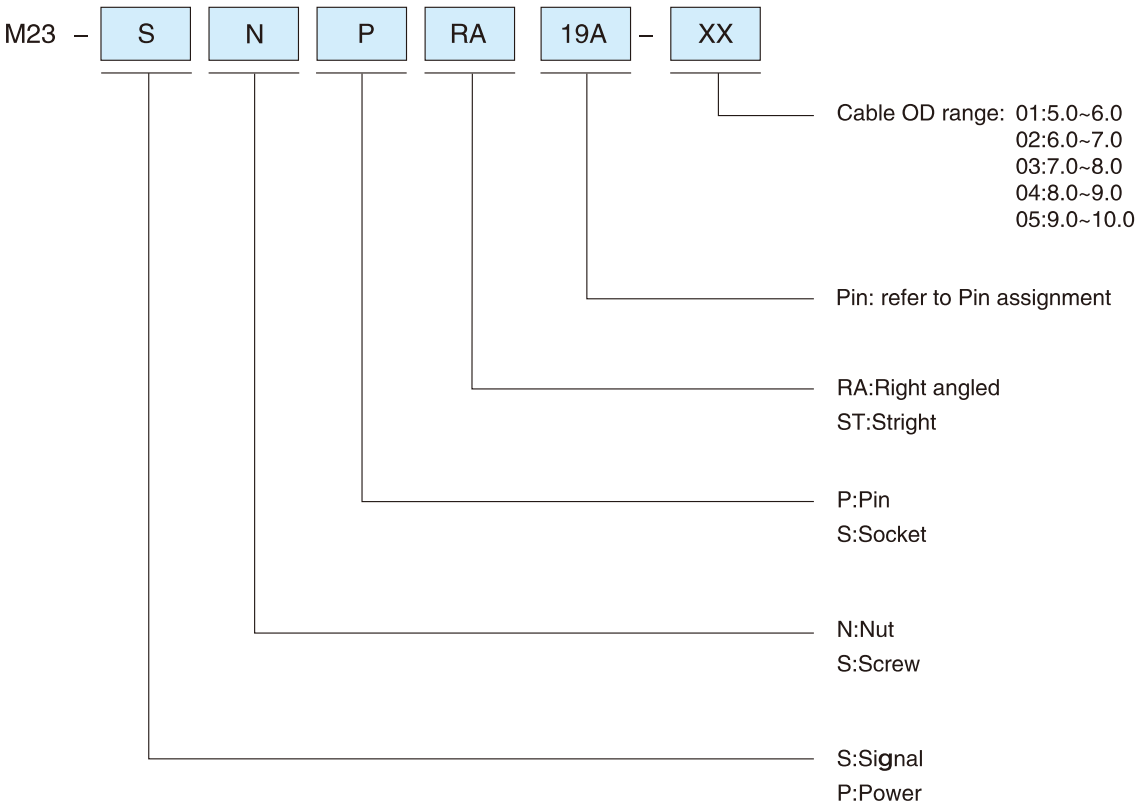
How To Order Part Number

M23 series with cable molded



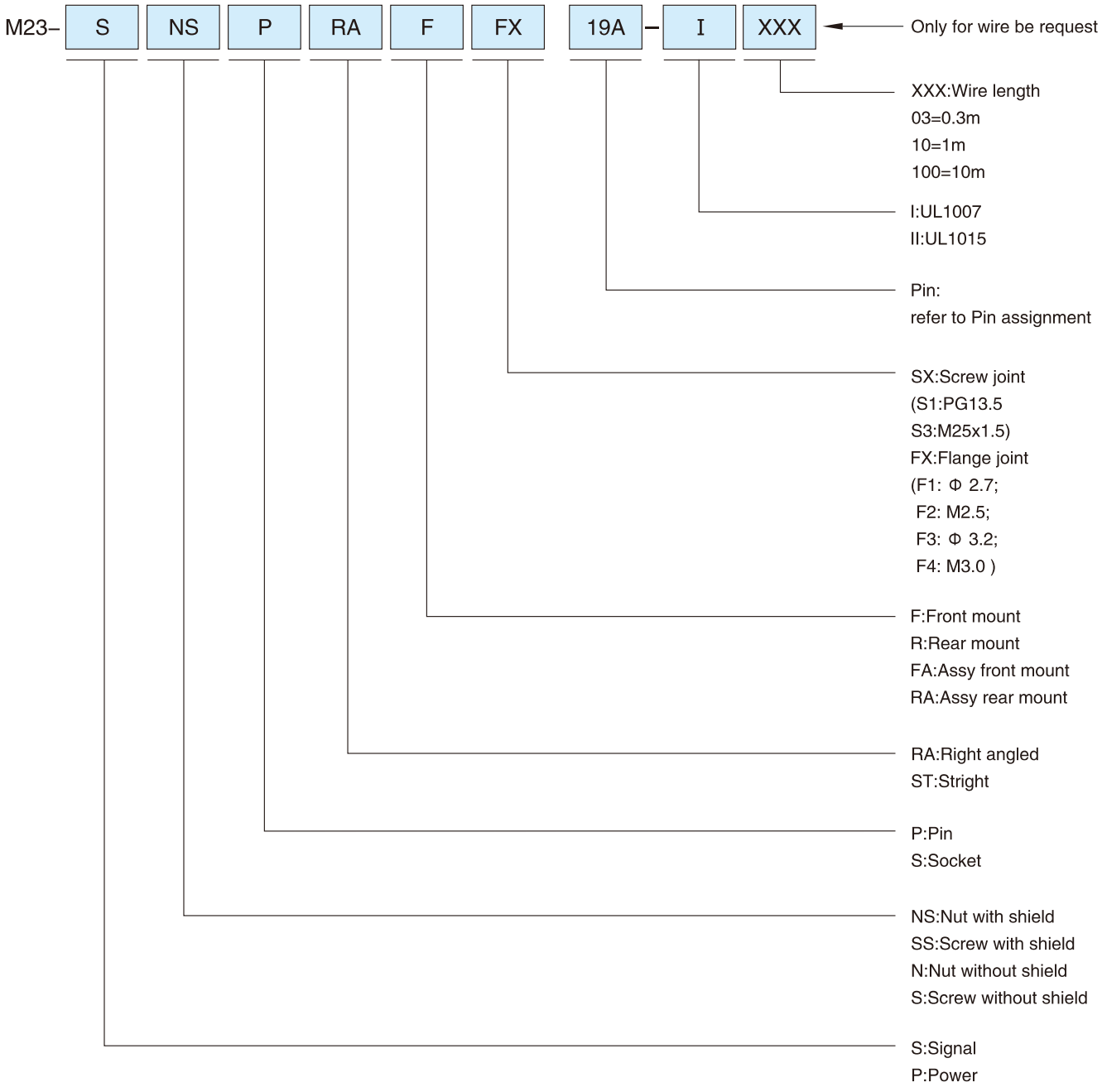
How To Order Part Number

M23 Series Assembly type



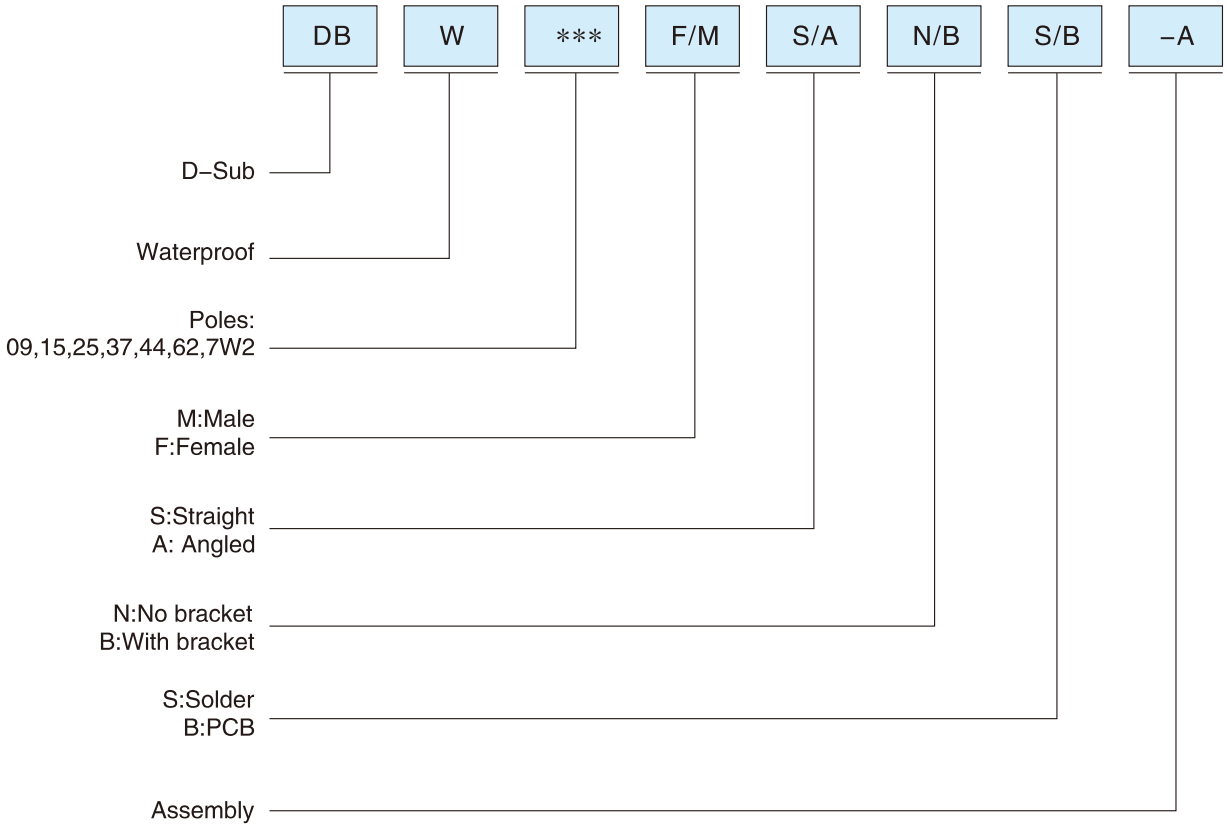
How To Order Part Number

M23 Panel type with or without wire



How To Order Part Number

Waterproof D–Sub connectors



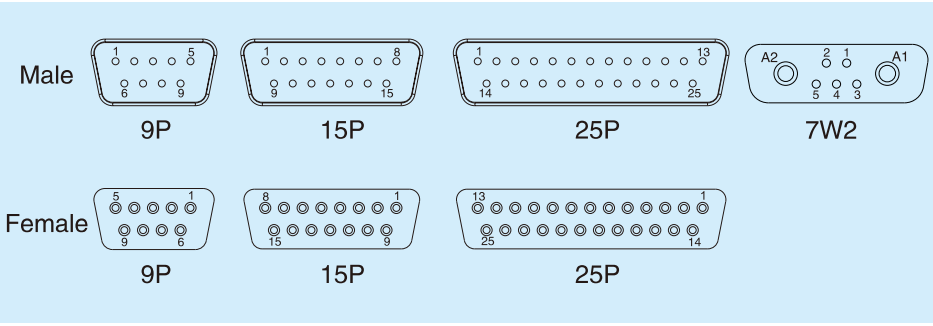
Example: DBW09FSNS

DBW15MABB

DBW7W2MABS

DBW15MSNS–A

D–Sub Pins layout



How To Order Part Number

Industrial I/O Connectors Series

RJ45 – W F 08 ST S *

SERIES

MD=Mini–Din
USB=USB
MB=Mini USB
MC=Micro–change
RJ45S=RJ45 shield
RJ45=RJ45 unshiled

WATERPROOF

Blank=Non–waterproof
W=Waterproof

GENDER

F=Female
M=Male

POLES

08=8 Pin
07=7 Pin .....

INSERT DEGREE

ST=Straight
RA=Right angled

CONNECTION TYPE

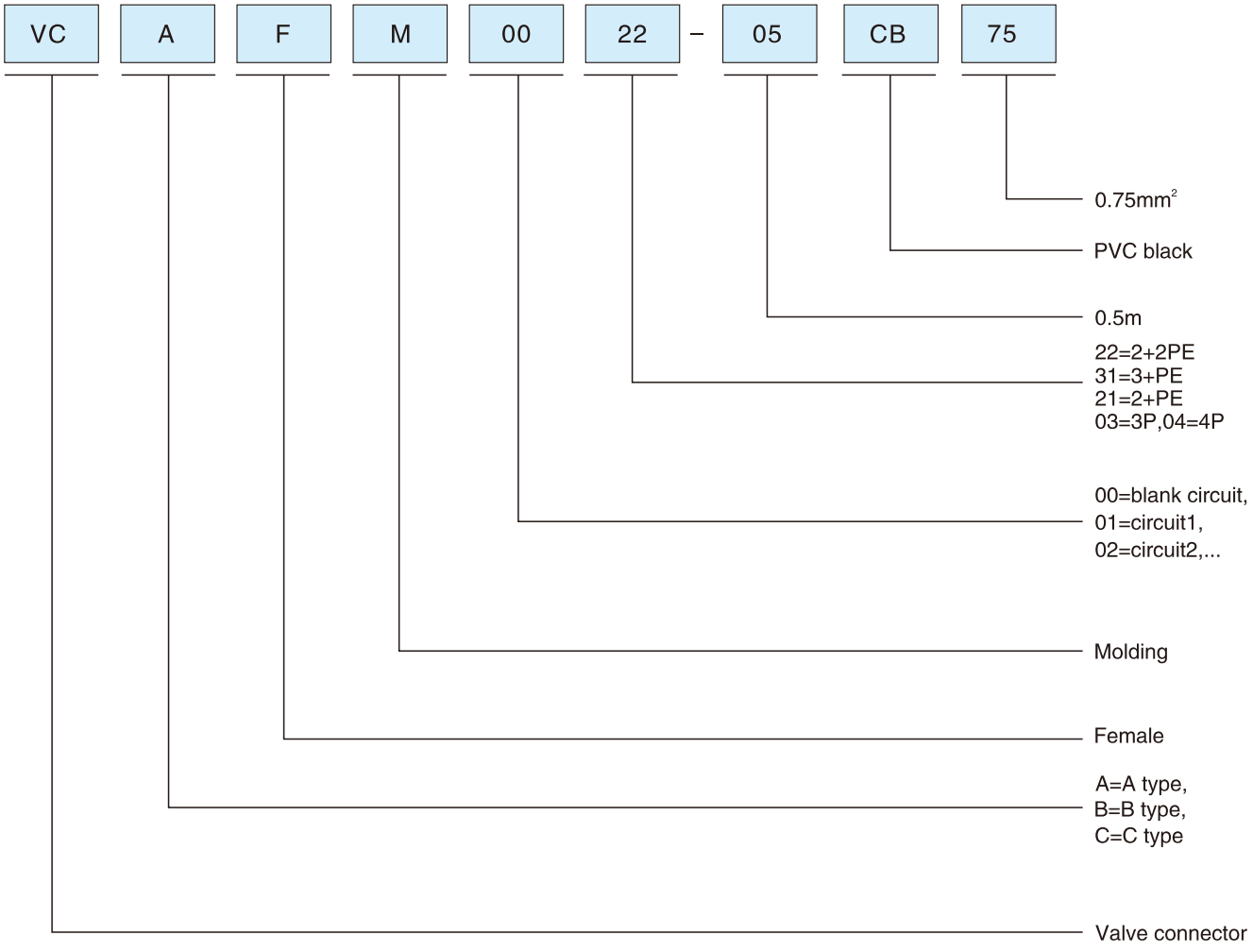
S=Sloder type
P=PCB type
M=Molding type

LOCKING TYPE

S=Self–locking
F=Fixed screw
Q=Quick–lock
P=Panel type

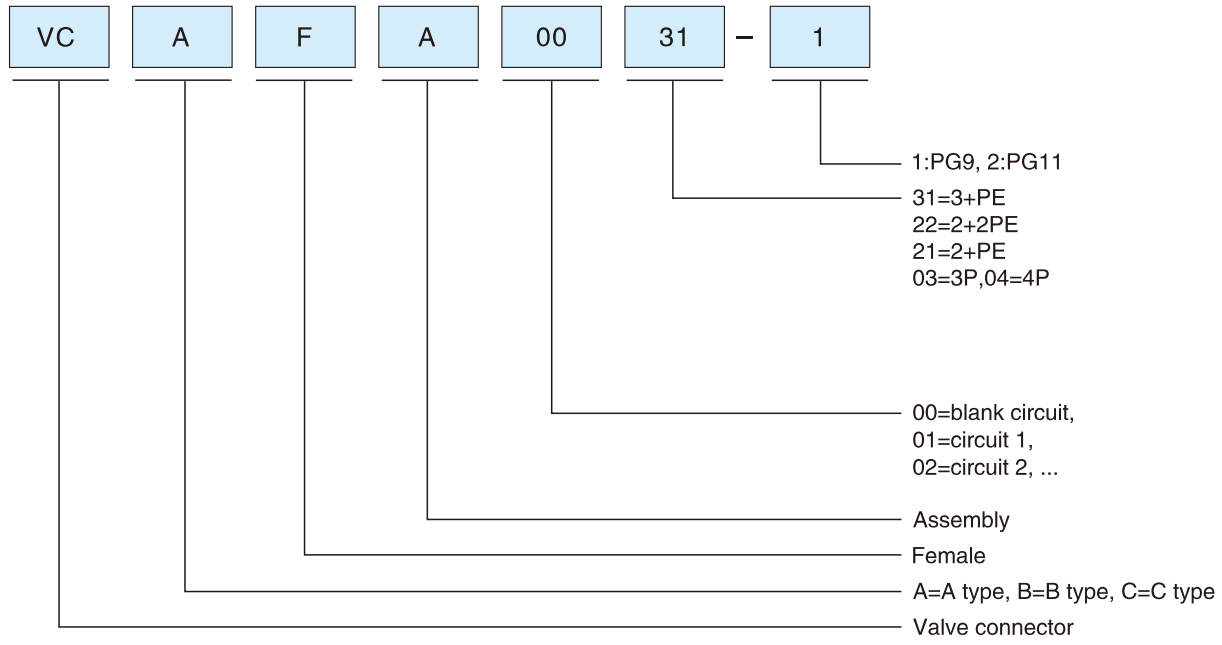
How To Order Part Number

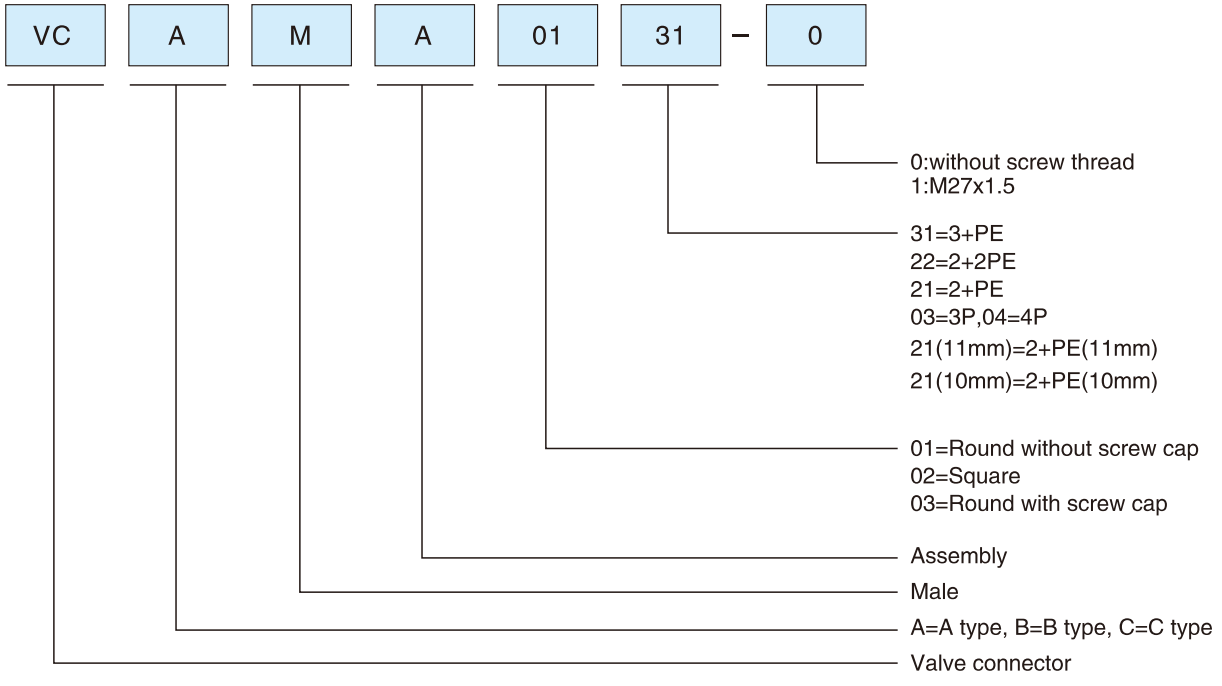
Valve / Solenoid Connectors With Cable Molded



How To Order Part Number

Valve / Solenoid Connectors





Circular **sensor**
connectors





M5 cables & connectors

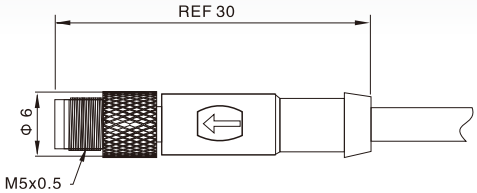
The M5 Series is specifically developed for the miniature sensor market and any similar applications that require multiple sensors within a miniaturized area. This product line offers both 3 and 4 Pins cable cord–sets and a range of panel–mount receptacles. All connectors are either over–molded on PUR/PVC 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 IP 67
- 3, 4 poles are available
- TPU over–molded
- Cable length customized, PUR and PVC cable options

M5 Male Molded Cable, Straight

- Connector series: M5
- Gender: Male
- Coding: A
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MA05MAF**STXXXX14

** refers to pins number
X refers to cable specification





General information

Standard:	IEC 61076–2–105
Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–20℃ ~ +80℃(flexible installation)
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector nut/screw:	Brass with nickel plated

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts		Rated current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Cable ending & length
			A/C	D/C	AWG	mm²			
03 pins		1A	60V	60V	26AWG	0.14	PUR / PVC	PVC	Customized cable ending and length
04 pins		1A	60V	60V	26AWG	0.14	PUR / PVC	PVC	

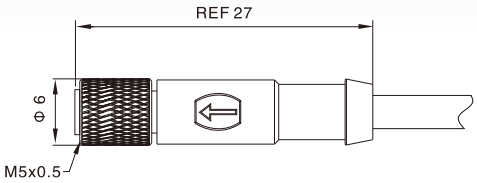
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 13 for products' part number encoding rule.

M5 Female Molded Cable, Straight

- Connector series: M5
- Gender: Female
- Coding: A
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MA05FAF**STXXXX14

** refers to pins number
X refers to cable specification





General information

Standard:	IEC 61076–2–105
Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–20℃ ~ +80℃(flexible installation)
Connector insert:	TPU; PA
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector nut/screw:	Brass with nickel plated
Seal / O–ring:	FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts		Rated current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Cable ending & length
			A/C	D/C	AWG	mm^2			
03 pins		1A	60V	60V	26AWG	0.14	PUR / PVC	PVC	Customized cable ending and length
04 pins		1A	60V	60V	26AWG	0.14	PUR / PVC	PVC	

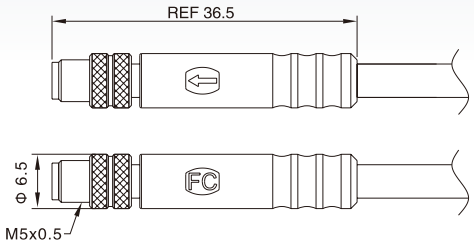
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm^2.
- Please refer to Page 13 for products' part number encoding rule.

M5 Male Molded Cable, Straight, Shielded

- Connector series: M5
- Gender: Male
- Coding: A
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MA05MSAF**STXXXX14

** refers to pins number
X refers to cable specification





General information

Standard:	IEC 61076–2–105
Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–20℃ ~ +80℃(flexible installation)
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector nut/screw:	Brass with nickel plated

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Available
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts		Rated current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Cable ending & length
			A/C	D/C	AWG	mm²			
03 pins		1A	60V	60V	26AWG	0.14	PUR / PVC	PVC	Customized cable ending and length
04 pins		1A	60V	60V	26AWG	0.14	PUR / PVC	PVC	

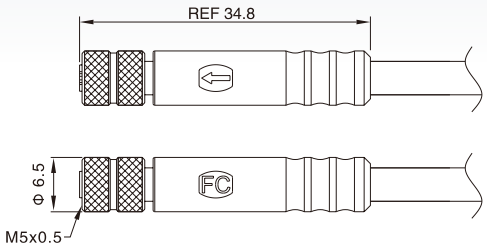
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 13 for products' part number encoding rule.

M5 Female Molded Cable, Straight, Shielded

- Connector series: M5
- Gender: Female
- Coding: A
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MA05FSAF**STXXXX14

** refers to pins number
X refers to cable specification





General information

Standard:	IEC 61076–2–105
Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–20℃ ~ +80℃(flexible installation)
Connector insert:	TPU; PA
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector nut/screw:	Brass with nickel plated
Seal / O–ring:	FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Available
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts		Rated current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Cable ending & length
			A/C	D/C	AWG	mm²			
03 pins		1A	60V	60V	26AWG	0.14	PUR / PVC	PVC	Customized cable ending and length
04 pins		1A	60V	60V	26AWG	0.14	PUR / PVC	PVC	

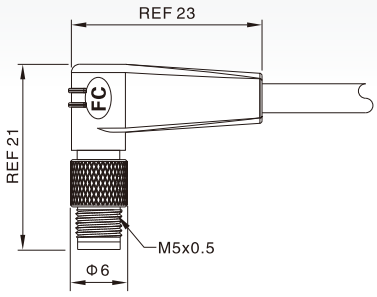
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 13 for products' part number encoding rule.

M5 Male Molded Cable, Angled

- Connector series: M5
- Gender: Male
- Coding: A
- Locking type: Fix screw
- Mounting type: Right angled
- Part No.: MA05MAF**RAXXXX14

** refers to pins number
X refers to cable specification





General information

Standard:	IEC 61076–2–105
Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–20℃ ~ +80℃(flexible installation)
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector nut/screw:	Brass with nickel plated

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts		Rated current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Cable ending & length
			A/C	D/C	AWG	mm²			
03 pins		1A	60V	60V	26AWG	0.14	PUR / PVC	PVC	Customized cable ending and length
04 pins		1A	60V	60V	26AWG	0.14	PUR / PVC	PVC	

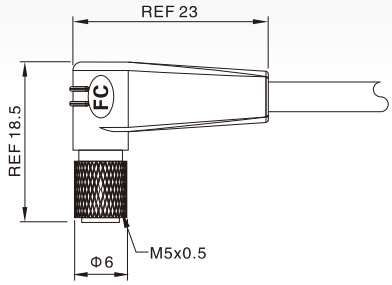
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 13 for products' part number encoding rule.

M5 Female Molded Cable, Angled

- Connector series: M5
- Gender: Female
- Coding: A
- Locking type: Fix screw
- Mounting type: Right angled
- Part No.: MA05FAF**RAXXXX14

** refers to pins number
X refers to cable specification





General information

Standard:	IEC 61076–2–105
Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–20℃ ~ +80℃(flexible installation)
Connector insert:	TPU; PA
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector nut/screw:	Brass with nickel plated
Seal / O–ring:	FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts		Rated current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Cable ending & length
			A/C	D/C	AWG	mm^2			
03 pins		1A	60V	60V	26AWG	0.14	PUR / PVC	PVC	Customized cable ending and length
04 pins		1A	60V	60V	26AWG	0.14	PUR / PVC	PVC	

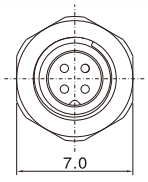
Remarks

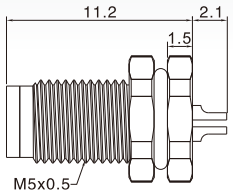
- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm^2.
- Please refer to Page 13 for products' part number encoding rule.

M5 Male Panel Mount, Solder, Front fastened

- Connector series: M5
- Gender: Male
- Coding: A
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB05MSAFF**ST

** refers to pins number







General information

Standard:	IEC 61076–2–105
Ambient temperature:	–25℃ ~ +90 ℃
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O–ring:	Epoxy resin / FKM

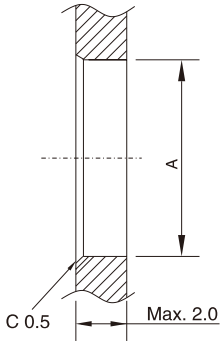
Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

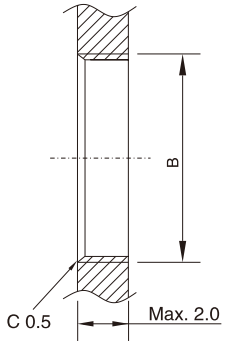
Contacts		Contacts termination	Rated current	Voltage		Wire gauge / size		Wire	Wire ending & length
				A/C	D/C	AWG	mm²		
03 pins		Solder version	1A	60V	60V	26AWG	0.14	PVC wire or customized	Customized wire ending and length
04 pins		Solder version	1A	60V	60V	26AWG	0.14		

Panel Cut–out Dimensions

With bare hole



With thread to screw in



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

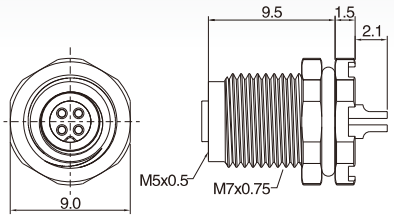
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 14 for products' part number encoding rule.

M5 Female Panel Mount, Solder, Front fastened

- Connector series: M5
- Gender: Female
- Coding: A
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB05FSAFF**ST

** refers to pins number





General information

Standard:	IEC 61076–2–105
Ambient temperature:	–25℃ ~ +90 ℃
Connector insert:	PA + GF
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O–ring:	Epoxy resin / FKM

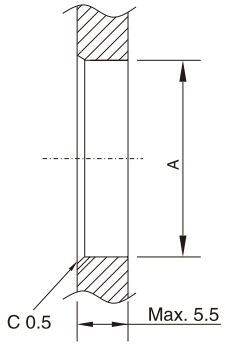
Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

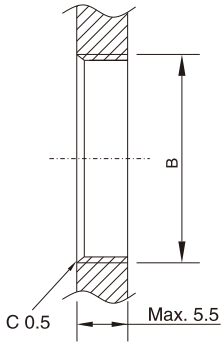
Contacts		Contacts termination	Rated current	Voltage		Wire gauge / size		Wire	Wire ending & length
				A/C	D/C	AWG	mm²		
03 pins		Solder version	1A	60V	60V	26AWG	0.14	PVC wire or customized	Customized wire ending and length
04 pins		Solder version	1A	60V	60V	26AWG	0.14		

Panel Cut–out Dimensions

With bare hole



With thread to screw in



	A	B
M7	$7.0^{+0.1}_{-0}$	M7x0.75

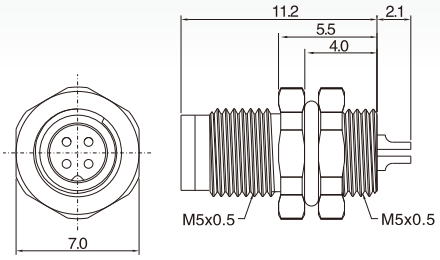
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 14 for products' part number encoding rule.

M5 Male Panel Mount, Solder, Rear fastened

- Connector series: M5
- Gender: Male
- Coding: A
- Locking type: Fix screw
- Mounting type: Rear fastened
- Part No.: MB05MSARF**ST

** refers to pins number





General information

Standard:	IEC 61076–2–105
Ambient temperature:	–25℃ ~ +90 ℃
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O–ring:	Epoxy resin / FKM

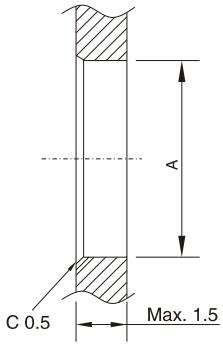
Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

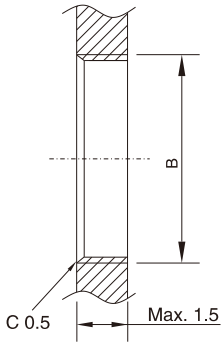
Contacts		Contacts termination	Rated current	Voltage		Wire gauge / size		Wire	Wire ending & length
				A/C	D/C	AWG	mm²		
03 pins		Solder version	1A	60V	60V	26AWG	0.14	PVC wire or customized	Customized wire ending and length
04 pins		Solder version	1A	60V	60V	26AWG	0.14		

Panel Cut–out Dimensions

With bare hole



With thread to screw in



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

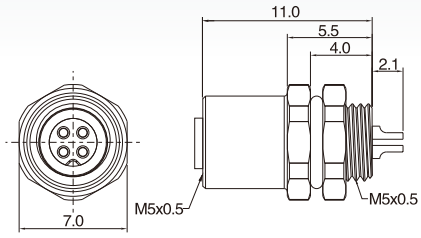
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 14 for products' part number encoding rule.

M5 Female Panel Mount, Solder, Rear fastened

- Connector series: M5
- Gender: Female
- Coding: A
- Locking type: Fix screw
- Mounting type: Rear fastened
- Part No.: MB05FSARF**ST

** refers to pins number





General information

Standard:	IEC 61076–2–105
Ambient temperature:	–25 ℃ ~ +90℃
Connector insert:	PA + GF
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O–ring:	Epoxy resin / FKM

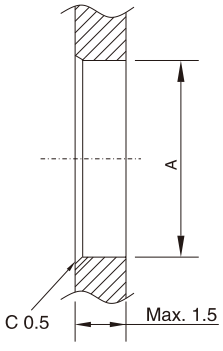
Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

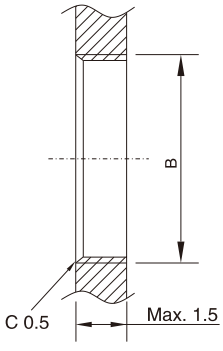
Contacts		Contacts termination	Rated current	Voltage		Wire gauge / size		Wire	Wire ending & length
				A/C	D/C	AWG	mm²		
03 pins		Solder version	1A	60V	60V	26AWG	0.14	PVC wire or customized	Customized wire ending and length
04 pins		Solder version	1A	60V	60V	26AWG	0.14		

Panel Cut–out Dimensions

With bare hole



With thread to screw in



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

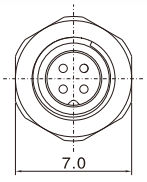
Remarks

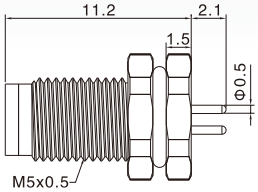
- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 14 for products' part number encoding rule.

M5 Male Panel Mount, PCB Type, Front fastened

- Connector series: M5
- Gender: Male
- Coding: A
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB05MBAFF**ST

** refers to pins number







General information

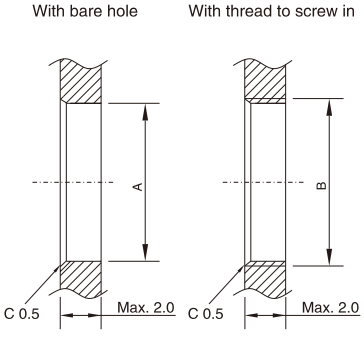
Standard:	IEC 61076–2–105
Ambient temperature:	–25℃ ~ +90 ℃
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O–ring:	Epoxy resin / FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

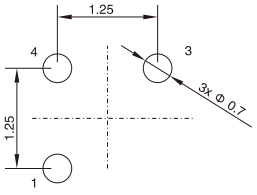
Contacts		Contacts termination	Rated current	Voltage	
				A/C	D/C
03 pins		PCB version	1A	60V	60V
04 pins		PCB version	1A	60V	60V

Panel Cut–out Dimensions

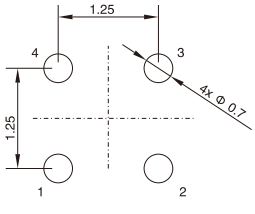


	A	B
M5	$5.0^{+0.1}_{-0}$	M5x0.5

PCB Layout



3P (Pin OD: Φ 0.5)



4P (Pin OD: Φ 0.5)

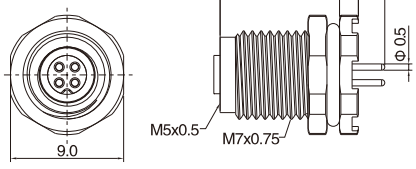
Remarks

• Please refer to Page 14 for products' part number encoding rule.

M5 Female Panel Mount, PCB Type, Front fastened

- Connector series: M5
- Gender: Female
- Coding: A
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB05FBAFF**ST

** refers to pins number





General information

Standard:	IEC 61076–2–105
Ambient temperature:	–25 ℃ ~ +90℃
Connector insert:	PA + GF
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O–ring:	Epoxy resin / FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP 67 in locked condition

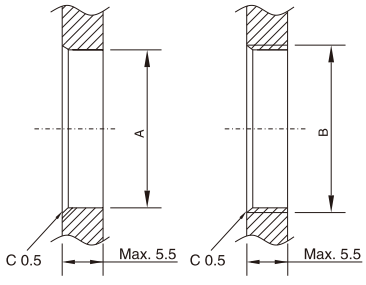
Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage	
				A/C	D/C
03 pins		PCB version	1A	60V	60V
04 pins		PCB version	1A	60V	60V

Panel Cut–out Dimensions

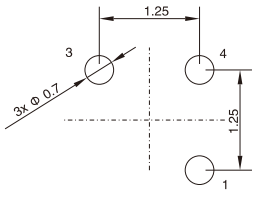
With bare hole

With thread to screw in

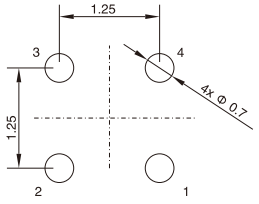


	A	B
M7	$7.0^{+0.1}_{-0}$	M7x0.75

PCB Layout



3P (Pin OD: Φ 0.5)



4P (Pin OD: Φ 0.5)

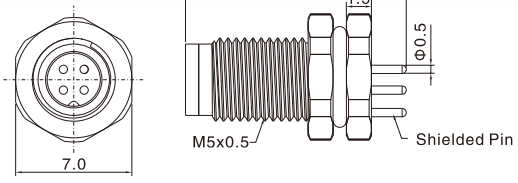
Remarks

• Please refer to Page 14 for products' part number encoding rule.

M5 Male Panel Mount, PCB Type, Front fastened, Shielded

- Connector series: M5
- Gender: Male
- Coding: A
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB05MBSAFF**ST

** refers to pins number





General information

Standard:	IEC 61076–2–105
Ambient temperature:	–25℃ ~ +90 ℃
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O–ring:	Epoxy resin / FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Available
IP rating:	IP 67 in locked condition

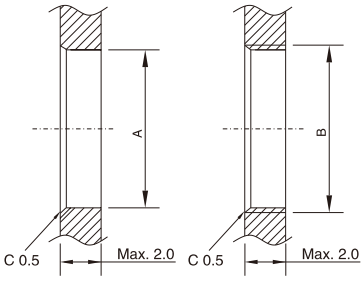
Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage	
				A/C	D/C
03 pins		PCB version	1A	60V	60V
04 pins		PCB version	1A	60V	60V

Panel Cut–out Dimensions

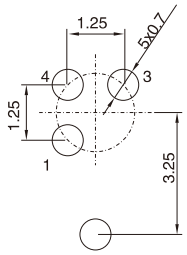
With bare hole

With thread to screw in

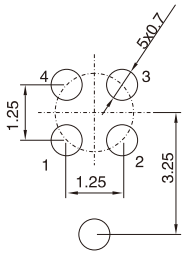


	A	B
M5	$5.0^{+0.1}_{-0}$	M5*0.5

PCB Layout



3P (Pin OD: Φ 0.5)



4P (Pin OD: Φ 0.5)

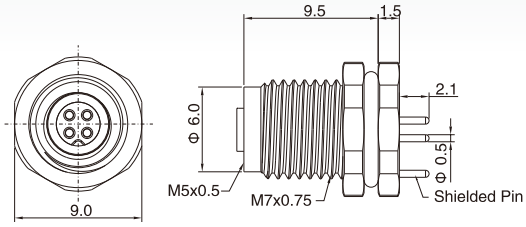
Remarks

• Please refer to Page 14 for products' part number encoding rule.

M5 Female Panel Mount, PCB Type, Front fastened, Shielded

- Connector series: M5
- Gender: Female
- Coding: A
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB05FBSAFF**ST

** refers to pins number





General information

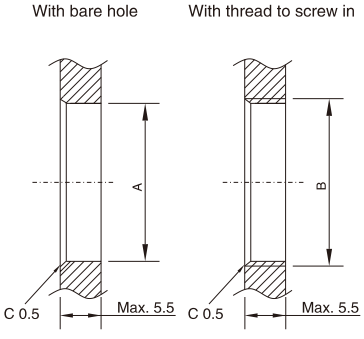
Standard:	IEC 61076–2–105
Ambient temperature:	–25 ℃ ~ +90℃
Connector insert:	PA + GF
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O–ring:	Epoxy resin / FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Available
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

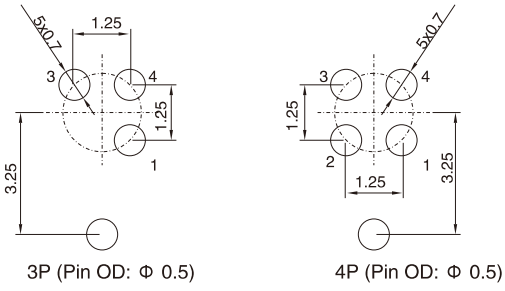
Contacts		Contacts termination	Rated current	Voltage	
				A/C	D/C
03 pins	① ④ ③	PCB version	1A	60V	60V
04 pins	① ② ④ ③	PCB version	1A	60V	60V

Panel Cut–out Dimensions



	A	B
M7	$7.0^{+0.1}_{-0}$	M7x0.75

PCB Layout



Remarks

• Please refer to Page 14 for products' part number encoding rule.

Circular **sensor**
connectors



M8 cables & connectors

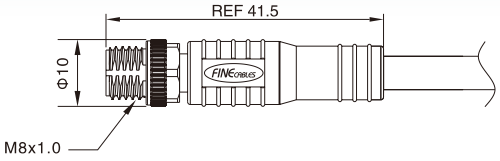
The M8 Series provides a wide range of metric M8 connectors for small sensors and actuators. Available in a shielded form and rated to IP67, these connectors are ideally suited for industrial control networks where small sensors are required. Connectors are either factory TPU over–molded or panel receptacle 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 IP 67
- 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 Male Molded Cable, Straight

- Connector series: M8
- Gender: Male
- Coding: A,B
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MA08M*HD**STXXXXXX

* refers to coding type
** refers to pins number
X refers to cable specification



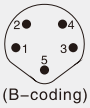


General information

Standard:	IEC 61076–2–104
Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–20℃ ~ +80℃(flexible installation)
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector nut/screw:	Zinc alloy with nickel plated

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP67 in locked condition

Electrical data & Mechanical data

Contacts		Rated current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Cable ending & length
			A/C	D/C	AWG	mm²			
03 pins	 (A–coding)	3A	60V	60V	24AWG	0.25	PUR / PVC	PVC	Customized cable ending and length
04 pins	 (A–coding)	3A	30V	30V	24AWG	0.25	PUR / PVC	PVC	
05 pins	 (B–coding)	3A	30V	30V	24AWG	0.25	PUR / PVC	PVC	
06 pins	 (A–coding)	1A	30V	30V	26AWG	0.14	PUR / PVC	PVC	
08 pins	 (A–coding)	1A	30V	30V	26AWG	0.14	PUR / PVC	PVC	

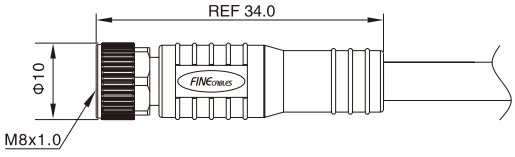
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 13 for products' part number encoding rule.

M8 Female Molded Cable, Straight

- Connector series: M8
- Gender: Female
- Coding: A,B
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MA08F*HD**STXXXXXX

* refers to coding type
** refers to pins number
X refers to cable specification





General information

Standard:	IEC 61076–2–104
Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–20℃ ~ +80℃(flexible installation)
Connector insert:	TPU; PA
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector nut/screw:	Zinc alloy with nickel plated
Seal / O–ring:	FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts		Rated current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Cable ending & length
			A/C	D/C	AWG	mm²			
03 pins	(A–coding)	3A	60V	60V	24AWG	0.25	PUR / PVC	PVC	Customized cable ending and length
04 pins	(A–coding)	3A	30V	30V	24AWG	0.25	PUR / PVC	PVC	
05 pins	(B–coding)	3A	30V	30V	24AWG	0.25	PUR / PVC	PVC	
06 pins	(A–coding)	1A	30V	30V	26AWG	0.14	PUR / PVC	PVC	
08 pins	(A–coding)	1A	30V	30V	26AWG	0.14	PUR / PVC	PVC	

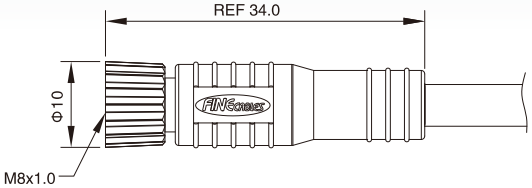
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 13 for products' part number encoding rule.

M8 Female Molded Cable, Straight, Plastic Nut

- Connector series: M8
- Gender: Female
- Coding: A,B
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MA08F*P**STXXXXXX

* refers to coding type
** refers to pins number
X refers to cable specification





General information

Standard:	IEC 61076–2–104
Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–20℃ ~ +80℃(flexible installation)
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector nut/screw:	PA+GF
Seal / O–ring:	FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP67 in locked condition

Electrical data & Mechanical data

Contacts		Rated current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Cable ending & length
			A/C	D/C	AWG	mm²			
03 pins	(A–coding)	3A	60V	60V	24AWG	0.25	PUR / PVC	PVC	Customized cable ending and length
04 pins	(A–coding)	3A	30V	30V	24AWG	0.25	PUR / PVC	PVC	
05 pins	(B–coding)	3A	30V	30V	24AWG	0.25	PUR / PVC	PVC	
06 pins	(A–coding)	1A	30V	30V	26AWG	0.14	PUR / PVC	PVC	
08 pins	(A–coding)	1A	30V	30V	26AWG	0.14	PUR / PVC	PVC	

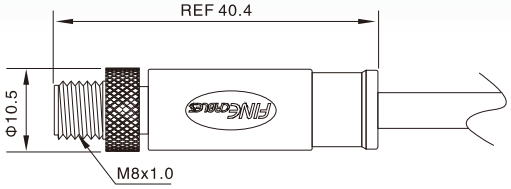
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 13 for products' part number encoding rule.

M8 Male Molded Cable, Straight, Shielded

- Connector series: M8
- Gender: Male
- Coding: A,B
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MA08MS*F**STXXXXXX

* refers to coding type
** refers to pins number
X refers to cable specification



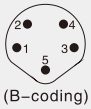


General information

Standard:	IEC 61076–2–104
Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–20℃ ~ +80℃(flexible installation)
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector nut/screw:	Brass with nickel plated

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Available
IP rating:	IP67 in locked condition

Electrical data & Mechanical data

Contacts		Rated current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Cable ending & length
			A/C	D/C	AWG	mm²			
03 pins	 (A–coding)	3A	60V	60V	24AWG	0.25	PUR / PVC	PVC	Customized cable ending and length
04 pins	 (A–coding)	3A	30V	30V	24AWG	0.25	PUR / PVC	PVC	
05 pins	 (B–coding)	3A	30V	30V	24AWG	0.25	PUR / PVC	PVC	
06 pins	 (A–coding)	1A	30V	30V	26AWG	0.14	PUR / PVC	PVC	
08 pins	 (A–coding)	1A	30V	30V	26AWG	0.14	PUR / PVC	PVC	

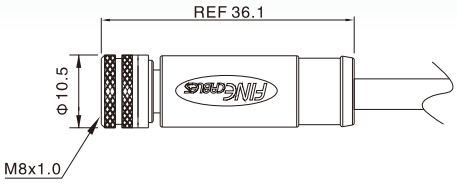
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 13 for products' part number encoding rule.

M8 Female Molded Cable, Straight, Shielded

- Connector series: M8
- Gender: Female
- Coding: A,B
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MA08FS*F**STXXXXXX

* refers to coding type
** refers to pins number
X refers to cable specification



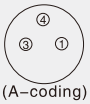


General information

Standard:	IEC 61076–2–104
Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–20℃ ~ +80℃(flexible installation)
Connector insert:	TPU; PA
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector nut/screw:	Brass with nickel plated
Seal / O–ring:	FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Available
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts		Rated current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Cable ending & length
			A/C	D/C	AWG	mm²			
03 pins	 (A–coding)	3A	60V	60V	24AWG	0.25	PUR / PVC	PVC	Customized cable ending and length
04 pins	 (A–coding)	3A	30V	30V	24AWG	0.25	PUR / PVC	PVC	
05 pins	 (B–coding)	3A	30V	30V	24AWG	0.25	PUR / PVC	PVC	
06 pins	 (A–coding)	1A	30V	30V	26AWG	0.14	PUR / PVC	PVC	
08 pins	 (A–coding)	1A	30V	30V	26AWG	0.14	PUR / PVC	PVC	

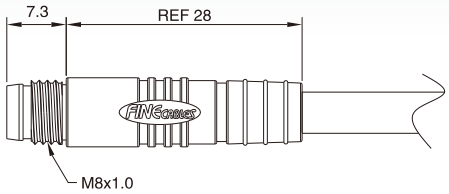
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 13 for products' part number encoding rule.

M8 Male Molded Cable, Straight, Snap-in Type

- Connector series: M8
- Gender: Male
- Coding: A
- Locking type: Snap–in
- Mounting type: Straight
- Part No.: MA08MAI**STXXXXXX

** refers to pins number
X refers to cable specification





General information

Standard:	IEC 61076–2–104
Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–20℃ ~ +80℃(flexible installation)
Connector insert:	PA + GF
Connector contacts:	Brass with gold plated
Connector overmold:	TPU

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP65 in locked condition

Electrical data & Mechanical data

Contacts		Rated current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Cable ending & length
			A/C	D/C	AWG	mm^2			
03 pins	 (A–coding)	3A	60V	60V	24AWG	0.25	PUR / PVC	PVC	Customized cable ending and length
04 pins	 (A–coding)	3A	30V	30V	24AWG	0.25	PUR / PVC	PVC	

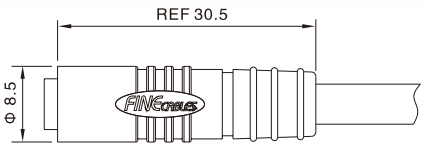
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm^2.
- Please refer to Page 13 for products' part number encoding rule.

M8 Female Molded Cable, Straight, Snap-in Type

- Connector series: M8
- Gender: Female
- Coding: A
- Locking type: Snap–in
- Mounting type: Straight
- Part No.: MA08FAI**STXXXXXX

** refers to pins number
X refers to cable specification



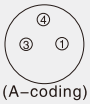


General information

Standard:	IEC 61076–2–104
Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–20℃ ~ +80℃(flexible installation)
Connector insert:	TPU; PA
Connector contacts:	Brass with gold plated
Connector overmold:	TPU

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP65 in locked condition

Electrical data & Mechanical data

Contacts		Rated current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Cable ending & length
			A/C	D/C	AWG	mm^2			
03 pins	 (A–coding)	3A	60V	60V	24AWG	0.25	PUR / PVC	PVC	Customized cable ending and length
04 pins	 (A–coding)	3A	30V	30V	24AWG	0.25	PUR / PVC	PVC	

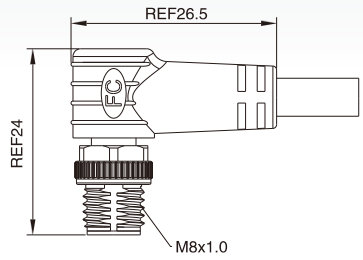
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm^2.
- Please refer to Page 13 for products' part number encoding rule.

M8 Male Molded Cable, Angled

- Connector series: M8
- Gender: Male
- Coding: A,B
- Locking type: Fix screw
- Mounting type: Right angled
- Part No.: MA08M*HD**RAXXXXXX

* refers to coding type
** refers to pins number
X refers to cable specification



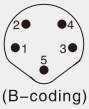


General information

Standard:	IEC 61076–2–104
Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–20℃ ~ +80℃(flexible installation)
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector nut/screw:	Zinc alloy with nickel plated

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP67 in locked condition

Electrical data & Mechanical data

Contacts		Rated current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Cable ending & length
			A/C	D/C	AWG	mm²			
03 pins	 (A–coding)	3A	60V	60V	24AWG	0.25	PUR / PVC	PVC	Customized cable ending and length
04 pins	 (A–coding)	3A	30V	30V	24AWG	0.25	PUR / PVC	PVC	
05 pins	 (B–coding)	3A	30V	30V	24AWG	0.25	PUR / PVC	PVC	
06 pins	 (A–coding)	1A	30V	30V	26AWG	0.14	PUR / PVC	PVC	06 Pin,08 Pin with different overmold from above other pins
08 pins	 (A–coding)	1A	30V	30V	26AWG	0.14	PUR / PVC	PVC	

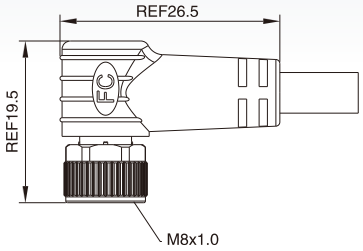
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 13 for products' part number encoding rule.

M8 Female Molded Cable, Angled

- Connector series: M8
- Gender: Female
- Coding: A,B
- Locking type: Fix screw
- Mounting type: Right angled
- Part No.: MA08F*HD**RAXXXXXX

* refers to coding type
** refers to pins number
X refers to cable specification



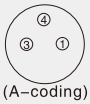
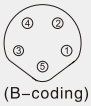


General information

Standard:	IEC 61076–2–104
Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–20℃ ~ +80℃(flexible installation)
Connector insert:	TPU; PA
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector 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

Electrical data & Mechanical data

Contacts		Rated current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Cable ending & length
			A/C	D/C	AWG	mm^2			
03 pins	 (A–coding)	3A	60V	60V	24AWG	0.25	PUR / PVC	PVC	Customized cable ending and length
04 pins	 (A–coding)	3A	30V	30V	24AWG	0.25	PUR / PVC	PVC	
05 pins	 (B–coding)	3A	30V	30V	24AWG	0.25	PUR / PVC	PVC	
06 pins	 (A–coding)	1A	30V	30V	26AWG	0.14	PUR / PVC	PVC	06 Pin,08 Pin with different overmold from above other pins
08 pins	 (A–coding)	1A	30V	30V	26AWG	0.14	PUR / PVC	PVC	

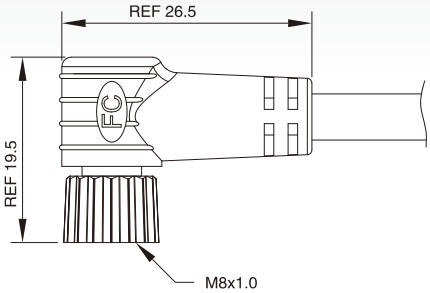
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm^2.
- Please refer to Page 13 for products' part number encoding rule.

M8 Female Molded Cable, Angled, Plastic Nut

- Connector series: M8
- Gender: Female
- Coding: A,B
- Locking type: Fix screw
- Mounting type: Right angled
- Part No.: MA08F*P**RAXXXXXX

* refers to coding type
** refers to pins number
X refers to cable specification



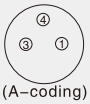


General information

Standard:	IEC 61076–2–104
Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–20℃ ~ +80℃(flexible installation)
Connector insert:	TPU; PA
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector nut/screw:	PA+GF
Seal / O–ring:	FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP67 in locked condition

Electrical data & Mechanical data

Contacts		Rated current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Cable ending & length
			A/C	D/C	AWG	mm²			
03 pins	 (A–coding)	3A	60V	60V	24AWG	0.25	PUR / PVC	PVC	Customized cable ending and length
04 pins	 (A–coding)	3A	30V	30V	24AWG	0.25	PUR / PVC	PVC	
05 pins	 (B–coding)	3A	30V	30V	24AWG	0.25	PUR / PVC	PVC	
06 pins	 (A–coding)	1A	30V	30V	26AWG	0.14	PUR / PVC	PVC	06 Pin,08 Pin with different overmold from above other pins
08 pins	 (A–coding)	1A	30V	30V	26AWG	0.14	PUR / PVC	PVC	

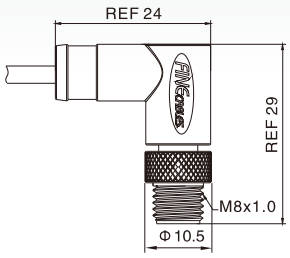
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 13 for products' part number encoding rule.

M8 Male Molded Cable, Angled, Shielded

- Connector series: M8
- Gender: Male
- Coding: A,B
- Locking type: Fix screw
- Mounting type: Right angled
- Part No.: MA08MS*F**RAXXXXXX

* refers to coding type
** refers to pins number
X refers to cable specification



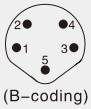


General information

Standard:	IEC 61076–2–104
Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–20℃ ~ +80℃(flexible installation)
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector nut/screw:	Brass with nickel plated

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Available(not 360° shielded)
IP rating:	IP67 in locked condition

Electrical data & Mechanical data

Contacts		Rated current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Cable ending & length
			A/C	D/C	AWG	mm²			
03 pins	 (A–coding)	3A	60V	60V	24AWG	0.25	PUR / PVC	PVC	Customized cable ending and length
04 pins	 (A–coding)	3A	30V	30V	24AWG	0.25	PUR / PVC	PVC	
05 pins	 (B–coding)	3A	30V	30V	24AWG	0.25	PUR / PVC	PVC	
06 pins	 (A–coding)	1A	30V	30V	26AWG	0.14	PUR / PVC	PVC	
08 pins	 (A–coding)	1A	30V	30V	26AWG	0.14	PUR / PVC	PVC	

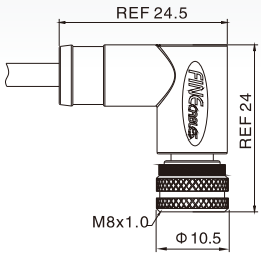
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 13 for products' part number encoding rule.

M8 Female Molded Cable, Angled, Shielded

- Connector series: M8
- Gender: Female
- Coding: A,B
- Locking type: Fix screw
- Mounting type: Right angled
- Part No.: MA08FS*F**RAXXXXXX

* refers to coding type
** refers to pins number
X refers to cable specification





General information

Standard:	IEC 61076–2–104
Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–20℃ ~ +80℃(flexible installation)
Connector insert:	TPU; PA
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector nut/screw:	Zinc alloy with nickel plated
Seal / O–ring:	FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Available(not 360° shielded)
IP rating:	IP67 in locked condition

Electrical data & Mechanical data

Contacts		Rated current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Cable ending & length
			A/C	D/C	AWG	mm²			
03 pins	(A–coding)	3A	60V	60V	24AWG	0.25	PUR / PVC	PVC	Customized cable ending and length
04 pins	(A–coding)	3A	30V	30V	24AWG	0.25	PUR / PVC	PVC	
05 pins	(B–coding)	3A	30V	30V	24AWG	0.25	PUR / PVC	PVC	
06 pins	(A–coding)	1A	30V	30V	26AWG	0.14	PUR / PVC	PVC	
08 pins	(A–coding)	1A	30V	30V	26AWG	0.14	PUR / PVC	PVC	

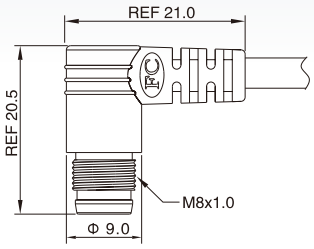
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 13 for products' part number encoding rule.

M8 Male Molded Cable, Angled, Snap-in Type

- Connector series: M8
- Gender: Male
- Coding: A
- Locking type: Snap–in
- Mounting type: Right angled
- Part No.: MA08MAI**RAXXXXXX

** refers to pins number
X refers to cable specification





General information

Standard:	IEC 61076–2–104
Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–20℃ ~ +80℃(flexible installation)
Connector insert:	PA + GF
Connector contacts:	Brass with gold plated
Connector overmold:	TPU

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5 mΩ
Shielding:	Unavailable
IP rating:	IP65 in locked condition

Electrical data & Mechanical data

Contacts		Rated current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Cable ending & length
			A/C	D/C	AWG	mm^2			
03 pins	 (A–coding)	3A	60V	60V	24AWG	0.25	PUR / PVC	PVC	Customized cable ending and length
04 pins	 (A–coding)	3A	30V	30V	24AWG	0.25	PUR / PVC	PVC	

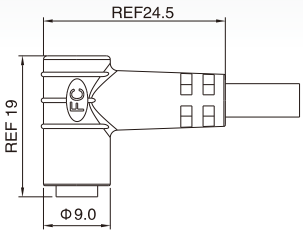
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm^2.
- Please refer to Page 13 for products' part number encoding rule.

M8 Female Molded Cable, Angled, Snap-in Type

- Connector series: M8
- Gender: Female
- Coding: A
- Locking type: Snap–in
- Mounting type: Right angled
- Part No.: MA08FAI**RAXXXXXX

** refers to pins number
X refers to cable specification



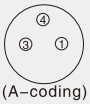
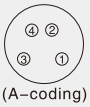


General information

Standard:	IEC 61076–2–104
Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–20℃ ~ +80℃(flexible installation)
Connector insert:	TPU; PA
Connector contacts:	Brass with gold plated
Connector overmold:	TPU

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP65 in locked condition

Electrical data & Mechanical data

Contacts		Rated current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Cable ending & length
			A/C	D/C	AWG	mm^2			
03 pins	 (A–coding)	3A	60V	60V	24AWG	0.25	PUR / PVC	PVC	Customized cable ending and length
04 pins	 (A–coding)	3A	30V	30V	24AWG	0.25	PUR / PVC	PVC	

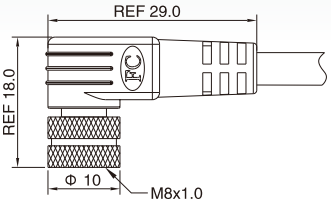
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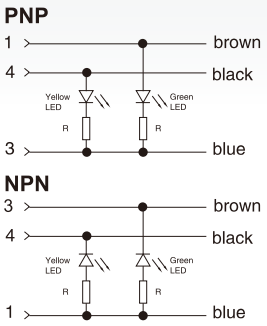
- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm^2.
- Please refer to Page 13 for products' part number encoding rule.

M8 Female Molded Cable, Angled, with LED Indicator

- Connector series: M8
- Gender: Female
- Coding: A
- Locking type: Fix screw
- Mounting type: Right angled
- Part No.: MA08LPAF**RAXXXXXX(PNP)
  MA08LNAF**RAXXXXXX(NPN)

** refers to pins number
X refers to cable specification





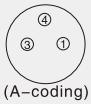
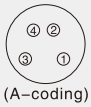


General information

Standard:	IEC 61076–2–104
Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–20℃ ~ +80℃(flexible installation)
Connector insert:	TPU; PA
Connector contacts:	Brass with gold plated
Connector overmold:	Transparent TPU
Connector nut/screw:	Brass with nickel plated
Seal / O–ring:	FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5 mΩ
Shielding:	Unavailable
IP rating:	IP67 in locked condition

Electrical data & Mechanical data

Contacts		Rated current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Cable ending & length
			A/C	D/C	AWG	mm^2			
03 pins	 (A–coding)	3A	30V	30V	24AWG	0.25	PUR / PVC	PVC	Customized cable ending and length
04 pins	 (A–coding)	3A	30V	30V	24AWG	0.25	PUR / PVC	PVC	

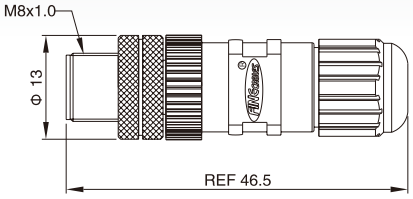
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm^2.
- Please refer to Page 13 for products' part number encoding rule.

M8 Male Field Wirable Assembly, Straight, Solder

- Connector series: M8
- Gender: Male
- Coding: A,B
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MB08MA*FF**ST

* refers to coding type
** refers to pins number





General information

Standard:	IEC 61076–2–104
Ambient temperature:	–25 ℃ ~ +90 ℃
Connector insert/body:	TPU; PA
Connector contacts:	Brass with gold plated
Connector 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

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Cable ending & length
				A/C	D/C	AWG	mm²			
03 pins	(A–coding)	Solder version	3A	60V	60V	24AWG	0.25	PUR / PVC	PVC	Customized cable ending and length
04 pins	(A–coding)	Solder version	3A	30V	30V	24AWG	0.25	PUR / PVC	PVC	
05 pins	(B–coding)	Solder version	3A	30V	30V	24AWG	0.25	PUR / PVC	PVC	
06 pins	(A–coding)	Solder version	1A	30V	30V	26AWG	0.14	PUR / PVC	PVC	
08 pins	(A–coding)	Solder version	1A	30V	30V	26AWG	0.14	PUR / PVC	PVC	

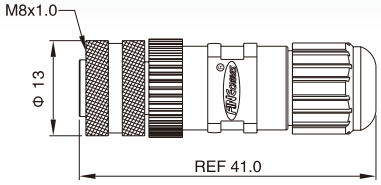
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 14 for products'part number encoding rule.

M8 Female Field Wirable Assembly, Straight, Solder

- Connector series: M8
- Gender: Female
- Coding: A,B
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MB08FA*FF**ST

* refers to coding type
** refers to pins number





General information

Standard:	IEC 61076–2–104
Ambient temperature:	–25 ℃ ~ +90 ℃
Connector insert/body:	TPU; PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O–ring:	FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5 mΩ
Shielding:	Unavailable
Suitable cable Dia:	3.5~5.0mm
IP rating:	IP67 in locked condition

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Cable ending & length
				A/C	D/C	AWG	mm²			
03 pins	(A–coding)	Solder version	3A	60V	60V	24AWG	0.25	PUR / PVC	PVC	Customized cable ending and length
04 pins	(A–coding)	Solder version	3A	30V	30V	24AWG	0.25	PUR / PVC	PVC	
05 pins	(B–coding)	Solder version	3A	30V	30V	24AWG	0.25	PUR / PVC	PVC	
06 pins	(A–coding)	Solder version	1A	30V	30V	26AWG	0.14	PUR / PVC	PVC	
08 pins	(A–coding)	Solder version	1A	30V	30V	26AWG	0.14	PUR / PVC	PVC	

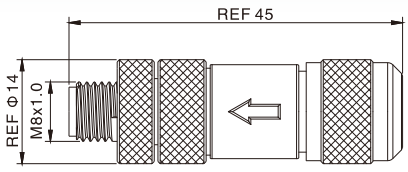
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 14 for products'part number encoding rule.

M8 Male Field Wirable Assembly, Straight, Screw joint, Shielded

- Connector series: M8
- Gender: Male
- Coding: A
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MB08MWSAFF**ST–A
  MB08MWSAFF**ST–B

** refers to pin number
– suitable cable Dia: A: 3.5~4.5mm
B: 4.5~5.5mm





General information

Standard:	IEC 61076–2–104
Ambient temperature:	–25 ℃ ~ +90 ℃
Connector insert/body:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Connector body:	Zinc alloy with nickel plated
Seal / O–ring:	FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5 mΩ
Shielding:	Available
Suitable cable Dia:	A: 3.5~4.5mm, B: 4.5~5.5mm
IP rating:	IP67 in locked condition

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Wire gauge / size		Cable ending & length
				A/C	D/C	AWG	mm²	
03 pins		Screw joint	3A	60V	60V	24AWG	0.25	Customized cable ending and length
04 pins		Screw joint	3A	30V	30V	24AWG	0.25	

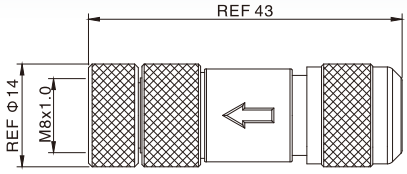
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 14 for products'part number encoding rule.

M8 Female Field Wirable Assembly, Straight, Screw joint, Shielded

- Connector series: M8
- Gender: Female
- Coding: A
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MB08FWSAFF**ST–A
  MB08FWSAFF**ST–B

** refers to pin number
– suitable cable Dia: A: 3.5~4.5mm
B: 4.5~5.5mm





General information

Standard:	IEC 61076–2–104
Ambient temperature:	–25 ℃ ~ +90 ℃
Connector insert/body:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Connector body:	Zinc alloy with nickel plated
Seal / O–ring:	FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5 mΩ
Shielding:	Available
Suitable cable Dia:	A: 3.5~4.5mm, B: 4.5~5.5mm
IP rating:	IP67 in locked condition

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Wire gauge / size		Cable ending & length
				A/C	D/C	AWG	mm^2	
03 pins		Screw joint	3A	60V	60V	24AWG	0.25	Customized cable ending and length
04 pins		Screw joint	3A	30V	30V	24AWG	0.25	

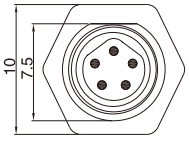
Remarks

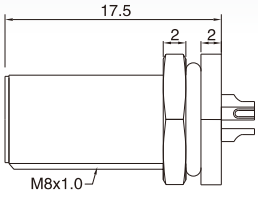
- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm^2.
- Please refer to Page 14 for products'part number encoding rule.

M8 Male Panel Mount, Solder, Front fastened

- Connector series: M8
- Gender: Male
- Coding: A,B
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB08MS*FF**ST

* refers to coding type
** refers to pins number





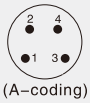


General information

Standard:	IEC 61076–2–104
Ambient temperature:	–25 ℃ ~ +90 ℃
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector 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
Panel cut–out:	Refer to page 78

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Wire gauge / size		Wire	Wire ending & length
				A/C	D/C	AWG	mm²		
03 pins	 (A–coding)	Solder version	3A	60V	60V	24AWG	0.25	PVC wire or customized	Customized wire ending and length
04 pins	 (A–coding)	Solder version	3A	30V	30V	24AWG	0.25		
05 pins	 (B–coding)	Solder version	3A	30V	30V	24AWG	0.25		
06 pins	 (A–coding)	Solder version	1A	30V	30V	26AWG	0.14		
08 pins	 (A–coding)	Solder version	1A	30V	30V	26AWG	0.14		

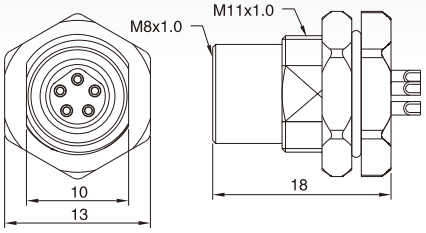
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 14 for products'part number encoding rule.

M8 Female Panel Mount, Solder, Front fastened

- Connector series: M8
- Gender: Female
- Coding: A,B
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB08FS*FF**ST

* refers to coding type
** refers to pins number



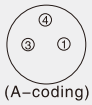
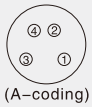
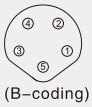


General information

Standard:	IEC 61076–2–104
Ambient temperature:	–25 ℃ ~ +90 ℃
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector 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
Panel cut–out:	Refer to page 78

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Wire gauge / size		Wire	Wire ending & length
				A/C	D/C	AWG	mm²		
03 pins	 (A–coding)	Solder version	3A	60V	60V	24AWG	0.25	PVC wire or customized	Customized wire ending and length
04 pins	 (A–coding)	Solder version	3A	30V	30V	24AWG	0.25		
05 pins	 (B–coding)	Solder version	3A	30V	30V	24AWG	0.25		
06 pins	 (A–coding)	Solder version	1A	30V	30V	26AWG	0.14		
08 pins	 (A–coding)	Solder version	1A	30V	30V	26AWG	0.14		

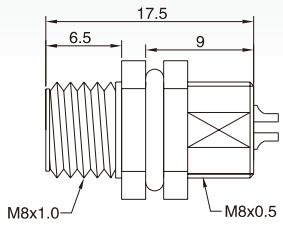
Remarks

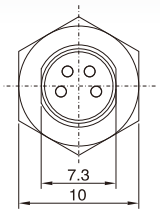
- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 14 for products'part number encoding rule.

M8 Male Panel Mount, Solder, Rear fastened

- Connector series: M8
- Gender: Male
- Coding: A,B
- Locking type: Fix screw
- Mounting type: Rear fastened
- Part No.: MB08MS*RF**ST

* refers to coding type
** refers to pins number





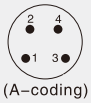


General information

Standard:	IEC 61076–2–104
Ambient temperature:	–25 ℃ ~ +90 ℃
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector 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
Panel cut–out:	Refer to page 78

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Wire gauge / size		Wire	Wire ending & length
				A/C	D/C	AWG	mm²		
03 pins	 (A–coding)	Solder version	3A	60V	60V	24AWG	0.25	PVC wire or customized	Customized wire ending and length
04 pins	 (A–coding)	Solder version	3A	30V	30V	24AWG	0.25		
05 pins	 (B–coding)	Solder version	3A	30V	30V	24AWG	0.25		
06 pins	 (A–coding)	Solder version	1A	30V	30V	26AWG	0.14		
08 pins	 (A–coding)	Solder version	1A	30V	30V	26AWG	0.14		

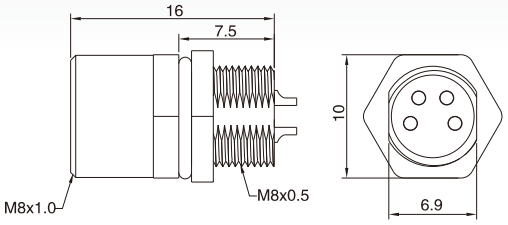
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 14 for products'part number encoding rule.

M8 Female Panel Mount, Solder, Rear fastened

- Connector series: M8
- Gender: Female
- Coding: A,B
- Locking type: Fix screw
- Mounting type: Rear fastened
- Part No.: MB08FS*RF**ST

* refers to coding type
** refers to pins number



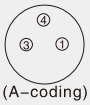
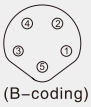


General information

Standard:	IEC 61076–2–104
Ambient temperature:	–25 ℃ ~ +90℃
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector 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
Panel cut–out:	Refer to page 78

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Wire gauge / size		Wire	Wire ending & length
				A/C	D/C	AWG	mm²		
03 pins	 (A–coding)	Solder version	3A	60V	60V	24AWG	0.25	PVC wire or customized	Customized wire ending and length
04 pins	 (A–coding)	Solder version	3A	30V	30V	24AWG	0.25		
05 pins	 (B–coding)	Solder version	3A	30V	30V	24AWG	0.25		
06 pins	 (A–coding)	Solder version	1A	30V	30V	26AWG	0.14		
08 pins	 (A–coding)	Solder version	1A	30V	30V	26AWG	0.14		

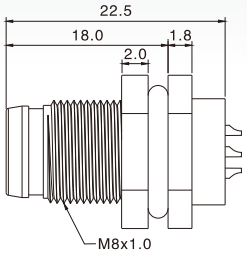
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 14 for products'part number encoding rule.

M8 Male Panel Mount, Solder, Front fastened

- Connector series: M8
- Gender: Male
- Coding: A
- Locking type: Snap–in
- Mounting type: Front fastened
- Part No.: MB08MSAFI**ST

** refers to pins number



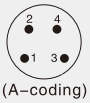


General information

Standard:	IEC 61076–2–104
Ambient temperature:	–25 ℃ ~ + 90 ℃
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector 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
Panel cut–out:	Refer to page 78

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Wire gauge / size		Wire	Wire ending & length
				A/C	D/C	AWG	mm²		
03 pins	 (A–coding)	Solder version	3A	60V	60V	24AWG	0.25	PVC wire or customized	Customized wire ending and length
04 pins	 (A–coding)	Solder version	3A	30V	30V	24AWG	0.25		

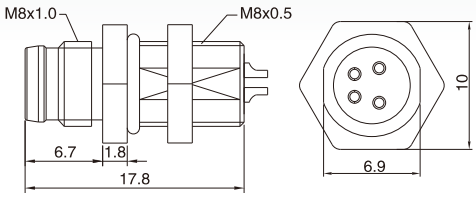
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 14 for products'part number encoding rule.

M8 Male Panel Mount, Solder, Rear fastened

- Connector series: M8
- Gender: Male
- Coding: A
- Locking type: Snap–in
- Mounting type: Rear fastened
- Part No.: MB08MSARI**ST

** refers to pins number



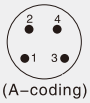


General information

Standard:	IEC 61076–2–104
Ambient temperature:	–25 ℃ ~ +90℃
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector 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
Panel cut–out:	Refer to page 78

Electrical data & Mechanical data

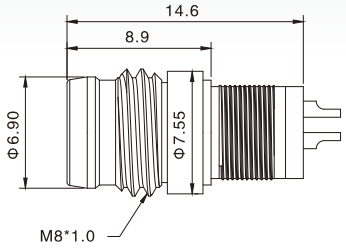
Contacts		Contacts termination	Rated current	Voltage		Wire gauge / size		Wire	Wire ending & length
				A/C	D/C	AWG	mm^2		
03 pins	 (A–coding)	Solder version	3A	60V	60V	24AWG	0.25	PVC wire or customized	Customized wire ending and length
04 pins	 (A–coding)	Solder version	3A	30V	30V	24AWG	0.25		

Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm^2.
- Please refer to Page 14 for products'part number encoding rule.

M8 Male Panel Mount, Solder, with LED indicator

- Connector series: M8
- Gender: Male
- Coding: A
- Locking type: Snap–in
- Mounting type: Front fastened
- Part No.: MB08MDAFI04ST





General information

Standard:	IEC 61076–2–104
Ambient temperature:	–40 ℃ ~ + 80 ℃
Connector insert:	PC
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP67 in locked condition/
	IP65 snap–in
Panel cut–out:	Refer to page 78

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Wire gauge / size		Wire ending & length
				A/C	D/C	AWG	mm^2	
04 pins+LED(red)		Solder version	4A	10~30V	10~30V	24AWG	0.25	Customized wire ending and length

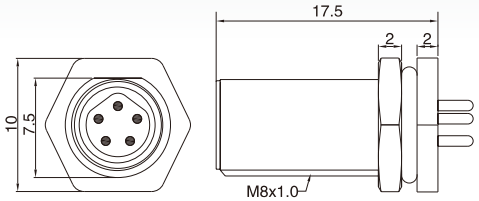
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm^2.
- Please refer to Page 14 for products'part number encoding rule.

M8 Male Panel Mount, PCB Type, Front fastened

- Connector series: M8
- Gender: Male
- Coding: A,B
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB08MB*FF**ST

* refers to coding type
** refers to pins number



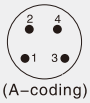


General information

Standard:	IEC 61076–2–104
Ambient temperature:	–25 ℃ ~ +90℃
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector 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
Panel cut–out:	Refer to page 78
PCB layout:	Refer to page 77

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage	
				A/C	D/C
03 pins	 (A–coding)	PCB version	3A	60V	60V
04 pins	 (A–coding)	PCB version	3A	30V	30V
05 pins	 (B–coding)	PCB version	3A	30V	30V
06 pins	 (A–coding)	PCB version	1A	30V	30V
08 pins	 (A–coding)	PCB version	1A	30V	30V

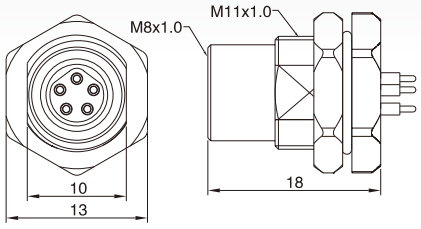
Remarks

• Please refer to Page 14 for products' part number encoding rule.

M8 Female Panel Mount, PCB Type, Front fastened

- Connector series: M8
- Gender: Female
- Coding: A,B
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB08FB*FF**ST

* refers to coding type
** refers to pins number



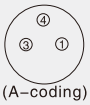


General information

Standard:	IEC 61076–2–104
Ambient temperature:	–25℃ ~ +90 ℃
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector 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
Panel cut–out:	Refer to page 78
PCB layout:	Refer to page 77

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage	
				A/C	D/C
03 pins	 (A–coding)	PCB version	3A	60V	60V
04 pins	 (A–coding)	PCB version	3A	30V	30V
05 pins	 (B–coding)	PCB version	3A	30V	30V
06 pins	 (A–coding)	PCB version	1A	30V	30V
08 pins	 (A–coding)	PCB version	1A	30V	30V

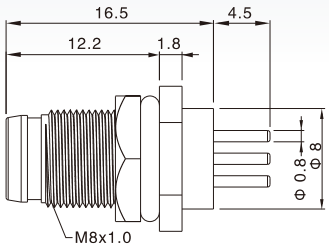
Remarks

• Please refer to Page 14 for products' part number encoding rule.

M8 Male Panel Mount, PCB Type, Front fastened

- Connector series: M8
- Gender: Male
- Coding: A
- Locking type: Snap–in
- Mounting type: Front fastened
- Part No.: MB08MBAFI**ST

** refers to pins number



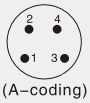


General information

Standard:	IEC 61076–2–104
Ambient temperature:	–25 ℃ ~ +90℃
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector 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
Panel cut–out:	Refer to page 78
PCB layout:	Refer to page 77

Electrical data & Mechanical data

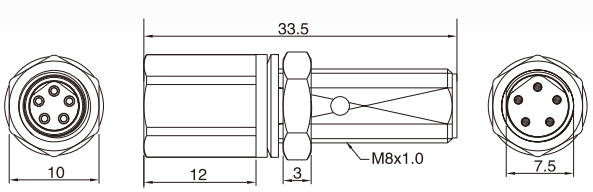
Contacts		Contacts termination	Rated current	Voltage	
				A/C	D/C
03 pins	 (A–coding)	PCB version	3A	60V	60V
04 pins	 (A–coding)	PCB version	3A	30V	30V

Remarks

• Please refer to Page 14 for products' part number encoding rule.

M8 Male to Female Panel Mount

- Connector series: M8
- Gender: Male/female
- Coding: A,B
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MT–004~006





General information

Standard:	IEC 61076–2–104
Ambient temperature:	–25 ℃ ~ +90 ℃
Connector insert:	TPU/PA+GF
Connector contacts:	Brass with gold plated
Connector 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
Panel cut–out:	Refer to page 78

Electrical data & Mechanical data

Contacts			Rated current	Voltage	
				A/C	D/C
MT–004	 Male	 Female	3A	60V	60V
MT–005	 Male	 Female	3A	30V	30V
MT–006	 Male	 Female	3A	30V	30V

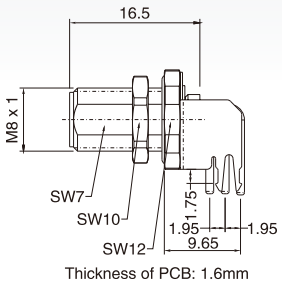
Remarks

• Please refer to Page 14 for products' part number encoding rule.

M8 Male Panel Mount, Angled, PCB Type, Front fastened, Shielded

- Connector series: M8
- Gender: Male
- Coding: A,B
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB08MBS*FF**RA

* refers to coding type
** refers to pins number



Thickness of PCB: 1.6mm

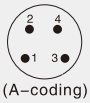


General information

Standard:	IEC 61076–2–104
Ambient temperature:	–25 ℃ ~ +90℃
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O–ring:	Epoxy resin / FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Available
IP rating:	IP67 in locked condition
Panel cut–out:	Refer to page 78
PCB layout:	Refer to page 77

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage	
				A/C	D/C
03 pins	 (A–coding)	PCB version	3A	60V	60V
04 pins	 (A–coding)	PCB version	3A	30V	30V
05 pins	 (B–coding)	PCB version	3A	30V	30V

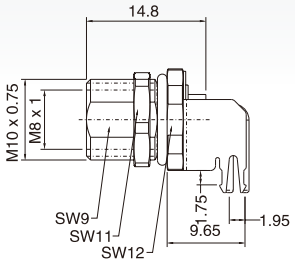
Remarks

• Please refer to Page 14 for products' part number encoding rule.

M8 Female Panel Mount, Angled, PCB Type, Front fastened, Shielded

- Connector series: M8
- Gender: Female
- Coding: A,B
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB08FBS*FF**RA

* refers to coding type
** refers to pins number



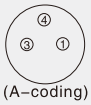
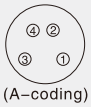
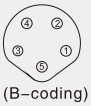
Thickness of PCB: 1.6mm



General information

Standard:	IEC 61076–2–104	Insulation resistance:	⩾ 100MΩ
Ambient temperature:	–25 ℃ ~ +90 ℃	Contact resistance:	⩽ 5mΩ
Connector insert:	PA+GF	Shielding:	Available
Connector contacts:	Brass with gold plated	IP rating:	IP67 in locked condition
Connector nut/screw:	Brass with nickel plated	Panel cut–out:	Refer to page 78
Seal / O–ring:	Epoxy resin / FKM	PCB layout:	Refer to page 78

Electrical data & Mechanical data

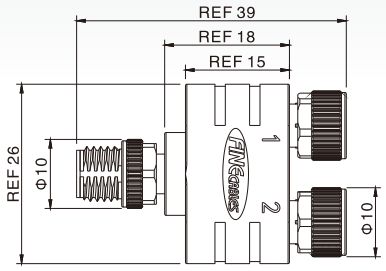
Contacts		Contacts termination	Rated current	Voltage	
				A/C	D/C
03 pins	 (A–coding)	PCB version	3A	60V	60V
04 pins	 (A–coding)	PCB version	3A	30V	30V
05 pins	 (B–coding)	PCB version	3A	30V	30V

Remarks

• Please refer to Page 14 for products' part number encoding rule.

M8 Y-Splitter, Male-2*Female

- Connector series: M8
- Gender: Female & Male
- Coding: A, B
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MT–043~045



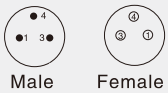
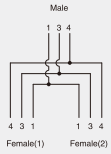
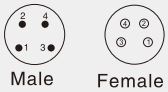
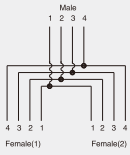
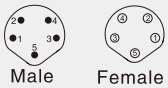
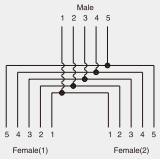


General information

Ambient temperature:	–20℃ ~ + 80 ℃
Connector insert:	PA+GF / TPU
Connector contacts:	Brass with gold plated
Connector screw/nut:	Zinc alloy with nickel plated
Innermold:	PP
Overrmold:	PVC
O–ring:	FKM

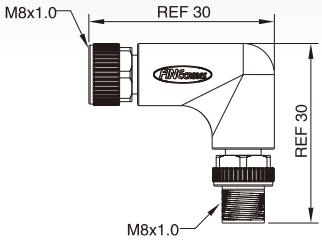
Insulation resistance:	≥ 100MΩ
Contact resistance:	≤ 5mΩ
Shielding:	Unavailable
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts		Wire List	Rated current	Voltage	
				A/C	D/C
MT–043	 Male Female		3A	60V	60V
MT–044	 Male Female		3A	30V	30V
MT–045	 Male Female		3A	30V	30V

M8 L-Adapter, Male-Female

- Connector series: M8
- Gender: Female & Male
- Coding: A, B
- Locking type: Fix screw
- Mounting type: Right angled
- Part No.: MT–046~048



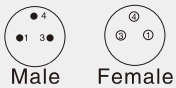
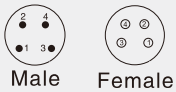
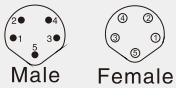
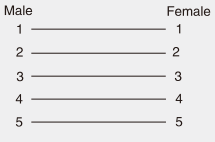


General information

Standard:	IEC 61076–2–104
Ambient temperature:	–20℃ ~ + 80℃
Connector insert:	TPU/PA
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector nut/screw:	Zinc alloy with nickel plated
Seal/O–ring:	FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP 67 in locked condition

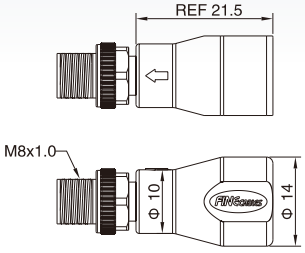
Electrical data & Mechanical data

Contacts		Wire List	Rated current	Voltage	
				A/C	D/C
MT–046	 Male Female	 Male Female 1–1, 2–2, 3–3	3A	60V	60V
MT–047	 Male Female	 Male Female 1–1, 2–2, 3–3, 4–4	3A	30V	30V
MT–048	 Male Female	 Male Female 1–1, 2–2, 3–3, 4–4, 5–5	3A	30V	30V

M8 Male Terminator, Straight, with LED Indicator

- Connector series: M8
- Gender: Male
- Coding: A, B
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MA08M*HD**ST–LED

* refers to coding type
** refers to pins number





General information

Ambient temperature:	–20℃~ + 80℃
Connector insert:	TPU + GF
Connector contacts:	Brass with gold plated
Connector overmold:	Transparent TPU
Coupling nut/screw:	Zinc alloy with nickel plated

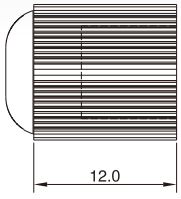
Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP 67 in locked condition

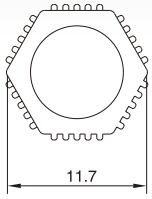
Electrical data & Mechanical data

Contacts		Rated current	Voltage	
			A/C	D/C
03 pins	 (A–coding)	3A	60V	60V
04 pins	 (A–coding)	3A	30V	30V
05 pins	 (B–coding)	3A	30V	30V

M8 Protection Cap for Male Connector

- Connector series: M8
- Gender: for Male
- Locking type: Fix screw
- Part No.: PCNM8x1.0–1





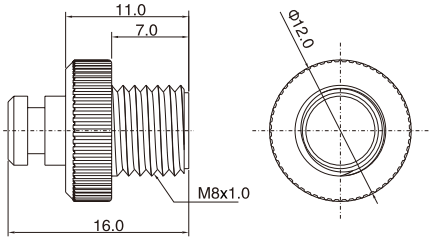


General information

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



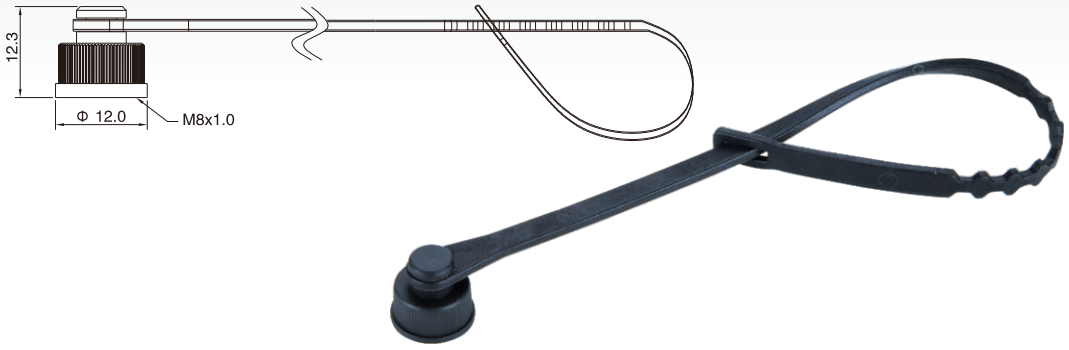


General information

Material:	PA+GF
Color:	Black
Degree of protection:	IP67 in locked condition

M8 Protection Cap for Male Molded Cable Connector

- Connector series: M8
- Gender: for Male
- Locking type: Fix screw
- Part No.: PCNM8x1.0–2

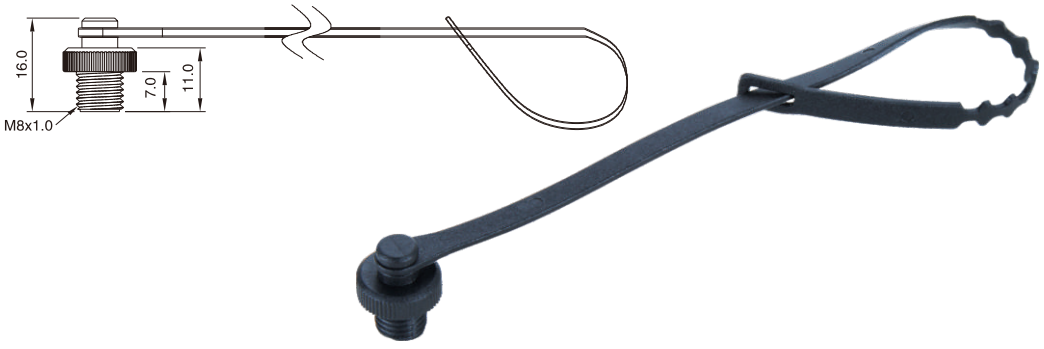


General information

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

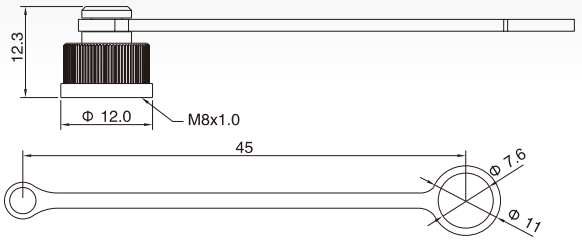


General information

Material:	PA+GF
Loop:	TPU
Color:	Black
Degree of protection:	IP67/IP68 in locked condition

M8 Protection Cap for Male Panel-mount Connector

- Connector series: M8
- Gender: for Male
- Locking type: Fix screw
- Part No.: PCNM8x1.0–3



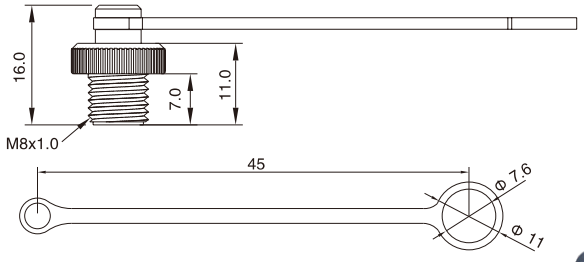


General information

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





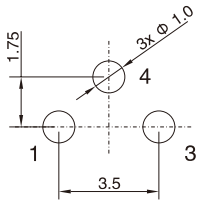
General information

Material:	PA+GF
Loop:	TPU
Color:	Black
Degree of protection:	IP67/IP68 in locked condition

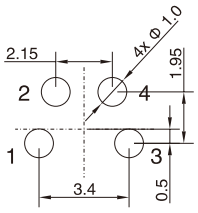
M8 PCB Layout & Panel Cut-out

PCB Layout

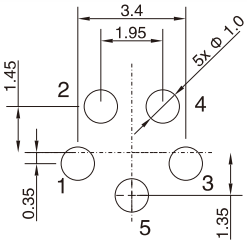
M8 Male Connector



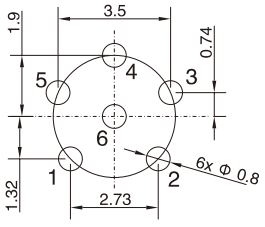
3P (Pin OD: Φ 0.8)



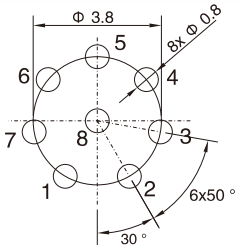
4P (Pin OD: Φ 0.8)



5P (Pin OD: Φ 0.8)



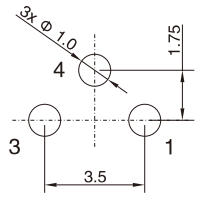
6P (Pin OD: Φ 0.6)



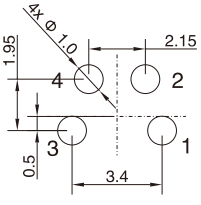
8P (Pin OD: Φ 0.6)

Recommended PCB layout

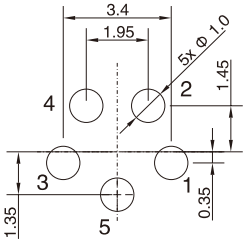
M8 Female Connector



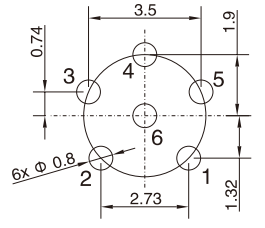
3P (Pin OD: Φ 0.8)



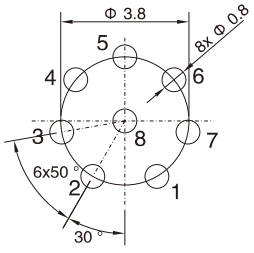
4P (Pin OD: Φ 0.8)



5P (Pin OD: Φ 0.8)



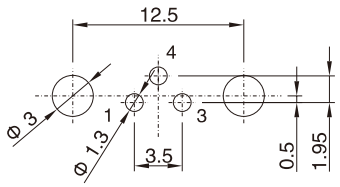
6P (Pin OD: Φ 0.6)



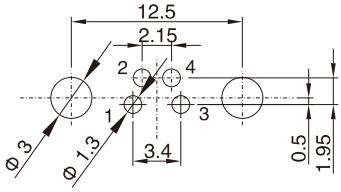
8P (Pin OD: Φ 0.6)

Recommended PCB layout

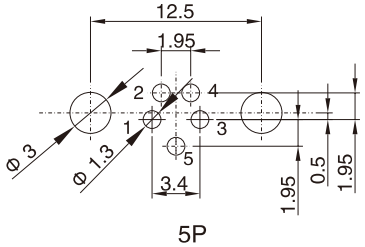
M8 Male Right Angled Connector



3P



4P



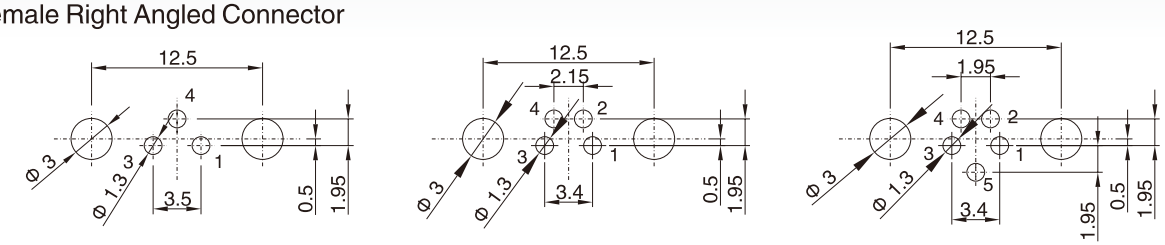
5P

Recommended PCB layout

M8 PCB Layout & Panel Cut-out

PCB Layout

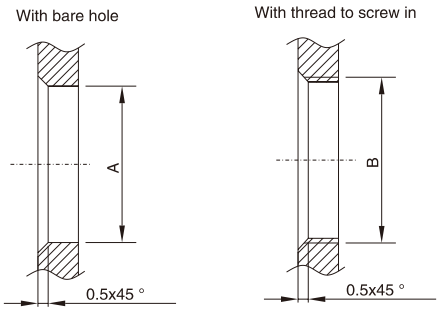
M8 Female Right Angled Connector



3P 4P 5P

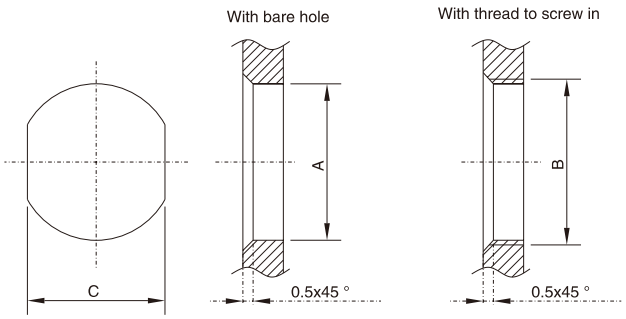
Recommended PCB layout

Panel Cut–out Dimensions



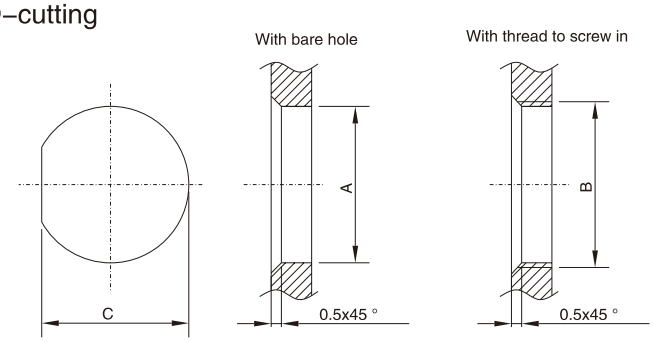
	A	B
M8	$8.0^{+0.1}_{-0}$	M8x0.5
M8	$8.0^{+0.1}_{-0}$	M8x1.0
M11	$11.0^{+0.1}_{-0}$	M11x1.0

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	$7.6^{+0.1}_{-0}$

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.

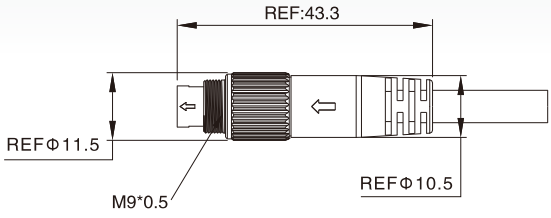
- 2~8 pins available
- Metal housing connector structure for 360° EMI shielding
- Over–molded, panel–mount with solder/PCB termination optional
- Degree of protection IP67
- Cable length customized
- Lower ambient temperature: –40℃ (customized)

M9 Male Molded Cable, Straight

- Connector series: M9
- Gender: Male
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MA09MAF**STXXXXXX

** refers to pins number

X refers to cable specification





General information

Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–25℃ ~ +80℃(flexible installation)
Connector insert:	PBT
Connector contacts:	Brass with gold plated
Coupling nut:	Brass with nickel plated
Connector overmold:	TPU

Insulation resistance:	⩾ 100 MΩ
Contact resistance:	⩽ 5 mΩ
Shielding:	Available
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Cable ending & length
				A/C	D/C	AWG	mm²			
02 pins		Solder	4A	125V	125V	24AWG	0.25	PUR / PVC	PVC	Customized cable ending and length
03 pins		Solder	4A	125V	125V	24AWG	0.25	PUR / PVC	PVC	
04 pins		Solder	3A	125V	125V	24AWG	0.25	PUR / PVC	PVC	
05pins		Solder	3A	125V	125V	24AWG	0.25	PUR / PVC	PVC	
07pins		Solder	1A	125V	125V	26AWG	0.14	PUR / PVC	PVC	
08pins		Solder	1A	125V	125V	26AWG	0.14	PUR / PVC	PVC	

Remarks

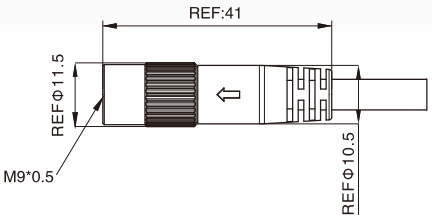
- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 13 for products' part number encoding rule.

M9 Female Molded Cable, Straight

- Connector series: M9
- Gender: Female
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MA09FAF**STXXXXXX

** refers to pins number

X refers to cable specification





General information

Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–25℃ ~ +80℃(flexible installation)
Connector insert:	PBT
Connector contacts:	Brass with gold plated
Coupling nut:	Brass with nickel plated
Connector overmold:	TPU

Insulation resistance:	⩾ 100 MΩ
Contact resistance:	⩽ 5 mΩ
Shielding:	Available
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Cable ending & length
				A/C	D/C	AWG	mm²			
02 pins		Solder	4A	125V	125V	24AWG	0.25	PUR / PVC	PVC	Customized cable ending and length
03 pins		Solder	4A	125V	125V	24AWG	0.25	PUR / PVC	PVC	
04 pins		Solder	3A	125V	125V	24AWG	0.25	PUR / PVC	PVC	
05pins		Solder	3A	125V	125V	24AWG	0.25	PUR / PVC	PVC	
07pins		Solder	1A	125V	125V	26AWG	0.14	PUR / PVC	PVC	
08pins		Solder	1A	125V	125V	26AWG	0.14	PUR / PVC	PVC	

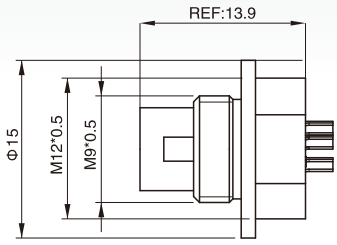
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 13 for products' part number encoding rule.

M9 Male Panel Mount, Solder Type, Gear fastened

- Connector series: M9
- Gender: Male
- Locking type: Fix screw
- Mounting type: Gear fastened
- Part No.: MB09MSAR**ST

** refers to pins number





General information

Ambient temperature:	–25 ℃ ~ + 80℃
Connector insert:	PBT
Connector contacts:	Brass with gold plated
Coupling screw:	Brass with nickel plated

Insulation resistance:	⩾ 100 MΩ
Contact resistance:	⩽ 5 mΩ
Shielding:	Unavailable
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Wire gauge / size		Cable ending & length
				A/C	D/C	AWG	mm²	
02 pins		Solder	4A	125V	125V	24AWG	0.25	Customized cable ending and length
03 pins		Solder	4A	125V	125V	24AWG	0.25	
04 pins		Solder	3A	125V	125V	24AWG	0.25	
05pins		Solder	3A	125V	125V	24AWG	0.25	
07pins		Solder	1A	125V	125V	26AWG	0.14	
08pins		Solder	1A	125V	125V	26AWG	0.14	

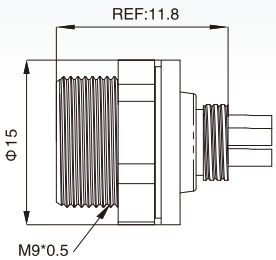
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 14 for products' part number encoding rule.

M9 Female Panel Mount,Solder Type,Front fastened

- Connector series: M9
- Gender: Female
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB09FSAF**ST

** refers to pins number





General information

Ambient temperature:	–25 ℃ ~ + 80℃
Connector insert:	PBT
Connector contacts:	Brass with gold plated
Coupling screw:	Brass with nickel plated

Insulation resistance:	⩾ 100 MΩ
Contact resistance:	⩽ 5 mΩ
Shielding:	Unvailable
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Wire gauge / size		Cable ending & length
				A/C	D/C	AWG	mm²	
02 pins		Solder	4A	125V	125V	24AWG	0.25	Customized cable ending and length
03 pins		Solder	4A	125V	125V	24AWG	0.25	
04 pins		Solder	3A	125V	125V	24AWG	0.25	
05pins		Solder	3A	125V	125V	24AWG	0.25	
07pins		Solder	1A	125V	125V	26AWG	0.14	
08pins		Solder	1A	125V	125V	26AWG	0.14	

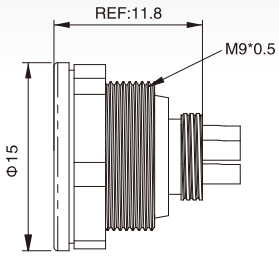
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 14 for products' part number encoding rule.

M9 Female Panel Mount,Solder Type,Rear fastened

- Connector series: M9
- Gender: Female
- Locking type: Fix screw
- Mounting type: Rear fastened
- Part No.: MB09FSAR**ST

** refers to pins number





General information

Ambient temperature:	–25 ℃ ~ + 80℃
Connector insert:	PBT
Connector contacts:	Brass with gold plated
Coupling screw:	Brass with nickel plated

Insulation resistance:	⩾ 100 MΩ
Contact resistance:	⩽ 5 mΩ
Shielding:	Unavailable
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Wire gauge / size		Cable ending & length
				A/C	D/C	AWG	mm²	
02 pins		Solder	4A	125V	125V	24AWG	0.25	Customized cable ending and length
03 pins		Solder	4A	125V	125V	24AWG	0.25	
04 pins		Solder	3A	125V	125V	24AWG	0.25	
05pins		Solder	3A	125V	125V	24AWG	0.25	
07pins		Solder	1A	125V	125V	26AWG	0.14	
08pins		Solder	1A	125V	125V	26AWG	0.14	

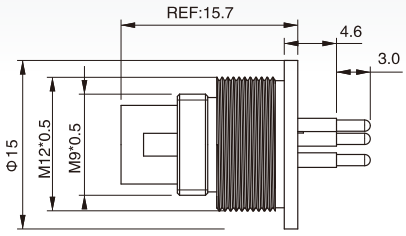
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 14 for products' part number encoding rule.

M9 Male Panel Mount, PCB Type, Front fastened

- Connector series: M9
- Gender: Male
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB09MBAF**ST

** refers to pins number





General information

Ambient temperature:	–25 ℃ ~ + 80℃
Connector insert:	PBT
Connector contacts:	Brass with gold plated
Coupling screw:	Brass with nickel plated

Insulation resistance:	⩾ 100 MΩ
Contact resistance:	⩽ 5 mΩ
Shielding:	Unavailable
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage	
				A/C	D/C
02 pins		PCB	4A	125V	125V
03 pins		PCB	4A	125V	125V
04 pins		PCB	3A	125V	125V
05pins		PCB	3A	125V	125V
07pins		PCB	1A	125V	125V
08pins		PCB	1A	125V	125V

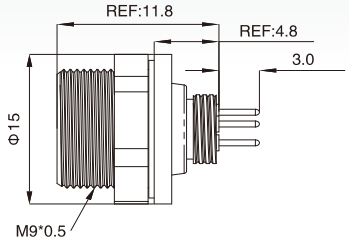
Remarks

• Please refer to Page 14 for products' part number encoding rule.

M9 Female Panel Mount,PCB Type,Front fastened

- Connector series: M9
- Gender: Female
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB09FBAF**ST

** refers to pins number





General information

Ambient temperature:	–25 ℃ ~ + 80℃
Connector insert:	PBT
Connector contacts:	Brass with gold plated
Coupling screw:	Brass with nickel plated

Insulation resistance:	⩾ 100 MΩ
Contact resistance:	⩽ 5 mΩ
Shielding:	Unvailable
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage	
				A/C	D/C
02 pins		PCB	4A	125V	125V
03 pins		PCB	4A	125V	125V
04 pins		PCB	3A	125V	125V
05pins		PCB	3A	125V	125V
07pins		PCB	1A	125V	125V
08pins		PCB	1A	125V	125V

Remarks

• Please refer to Page 14 for products' part number encoding rule.

Circular **sensor**
connectors





M10 cables & connectors (snap-in)

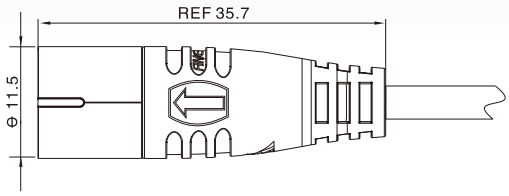
This type of connector is commonly used for small applications in medical and commercial industries. The push–pull cable connector enables a seamless mating process, and is available in both male and female versions with 5 and 9–gold plated contacts. When properly mated, the connection is sealed to an IP65 rating, protecting the connection from the ingress of liquids and debris.

- Degree of protection IP 65
- 5, 9 poles are available
- Cable length customized, PUR and PVC cable for options

M10 Male Molded Cable, Straight , Snap-in Type

- Connector series: M10
- Gender: Male
- Locking type: Snap–in
- Mounting type: Straight
- Part No.: MA10MAI**STXXXX14

** refers to pins number
X refers to cable specification





General information

Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–20℃ ~ +80℃(flexible installation)
Connector insert:	PA + GF
Connector contacts:	Brass with gold plated
Connector overmold:	TPU

Insulation resistance:	⩾ 20MΩ
Contact resistance :	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP65 in locked condition

Electrical data & Mechanical data

Contacts		Rated current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Cable ending & length
			A/C	D/C	AWG	mm²			
05 pins		2A	60V	72V	26AWG	0.14	PUR / PVC	PVC	Customized cable ending and length
09 pins		1A	30V	30V	26AWG	0.14	PUR / PVC	PVC	

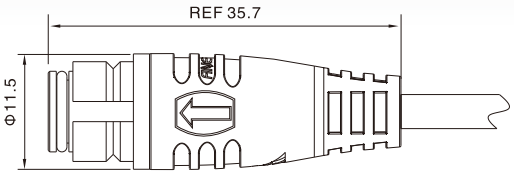
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 13 for products' part number encoding rule.

M10 Female Molded Cable, Straight, Snap-in Type

- Connector series: M10
- Gender: Female
- Locking type: Snap–in
- Mounting type: Straight
- Part No.: MA10FAI**STXXXX14

** refers to pins number
X refers to cable specification





General information

Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–20℃ ~ +80℃(flexible installation)
Connector insert:	PA + GF
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Seal / O–ring:	FKM

Insulation resistance:	⩾ 20MΩ
Contact resistance :	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP65 in locked condition

Electrical data & Mechanical data

Contacts		Rated current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Cable ending & length
			A/C	D/C	AWG	mm^2			
05 pins		2A	60V	72V	26AWG	0.14	PUR / PVC	PVC	Customized cable ending and length
09 pins		1A	30V	30V	26AWG	0.14	PUR / PVC	PVC	

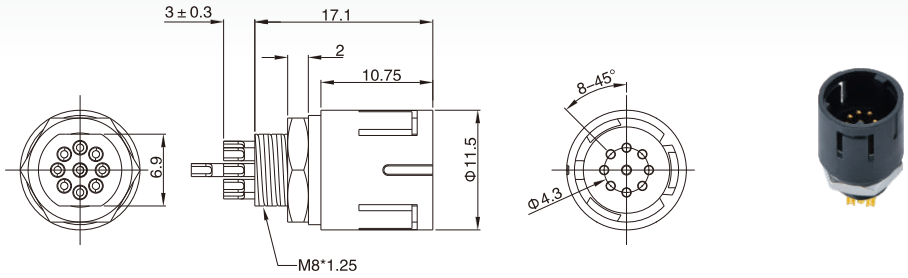
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm^2.
- Please refer to Page 13 for products' part number encoding rule.

M10 Male Panel Mount, Solder Type, Rear Fastened

- Connector series: M10
- Gender: Male
- Locking type: Snap–in
- Mounting type: Rear fastened
- Part No.: MB10MSARI**ST

** refers to pins number



General information

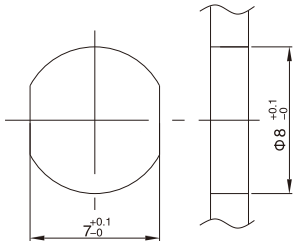
Ambient temperature:	–20 ℃ ~ + 80℃
Connector insert:	PA + GF
Connector contacts:	Brass with gold plated
Coupling nut:	Brass with nickel plated

Insulation resistance:	⩾ 20 MΩ
Contact resistance :	⩽ 5 mΩ
Shielding:	Unavailable
IP rating:	IP 65 in locked condition

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Wire gauge / size		Wire	Wire ending & length
				A/C	D/C	AWG	mm^2		
05 pins		Solder version	2A	60V	72V	26AWG	0.14	PVC wire or customized	Customized wire ending and length
09 pins		Solder version	1A	30V	30V	26AWG	0.14		

Panel Cut–out Dimensions



Panel cut–out

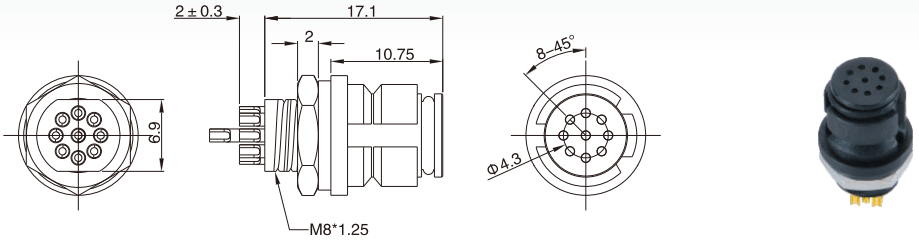
Remarks

• Please refer to Page 14 for products' part number encoding rule.

M10 Female Panel Mount, Solder Type, Rear Fastened

- Connector series: M10
- Gender: Female
- Locking type: Snap–in
- Mounting type: Rear fastened
- Part No.: MB10FSARI**ST

** refers to pins number



General information

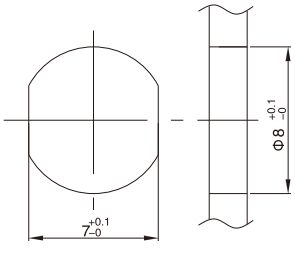
Ambient temperature:	–20 ℃ ~ + 80℃
Connector insert:	PA + GF
Connector contacts:	Brass with gold plated
Coupling nut:	Brass with nickel plated
O–ring:	FKM

Insulation resistance:	⩾ 20 MΩ
Contact resistance :	⩽ 5 mΩ
Shielding:	Unavailable
IP rating:	IP 65 in locked condition

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Wire gauge / size		Wire	Wire ending & length
				A/C	D/C	AWG	mm^2		
05 pins		Solder version	2A	60V	72V	26AWG	0.14	PVC wire or customized	Customized wire ending and length
09 pins		Solder version	1A	30V	30V	26AWG	0.14		

Panel Cut–out Dimensions



Panel cut–out

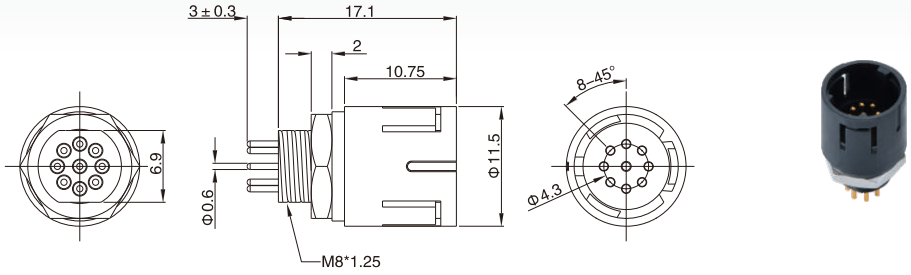
Remarks

• Please refer to Page 14 for products' part number encoding rule.

M10 Male Panel Mount, PCB Type, Rear Fastened

- Connector series: M10
- Gender: Male
- Locking type: Snap–in
- Mounting type: Rear fastened
- Part No.: MB10MBARI**ST

** refers to pins number



General information

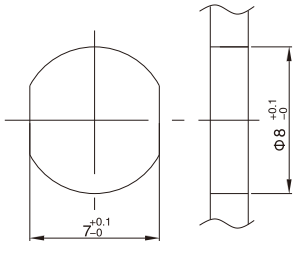
Ambient temperature:	–20 ℃ ~ + 80℃
Connector insert:	PA + GF
Connector contacts:	Brass with gold plated
Coupling nut:	Brass with nickel plated

Insulation resistance:	⩾ 20 MΩ
Contact resistance :	⩽ 5 mΩ
Shielding:	Unavailable
IP rating:	IP 65 in locked condition

Electrical data & Mechanical data

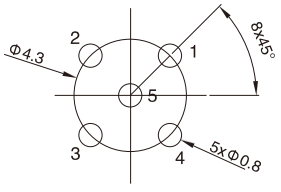
Contacts		Contacts termination	Rated current	Voltage	
				A/C	D/C
05 pins		PCB version	2A	60V	72V
09 pins		PCB version	1A	30V	30V

Panel Cut–out Dimensions

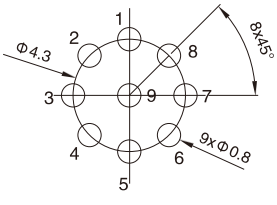


Panel cut–out

PCB Layout



5Pins male



9Pins male

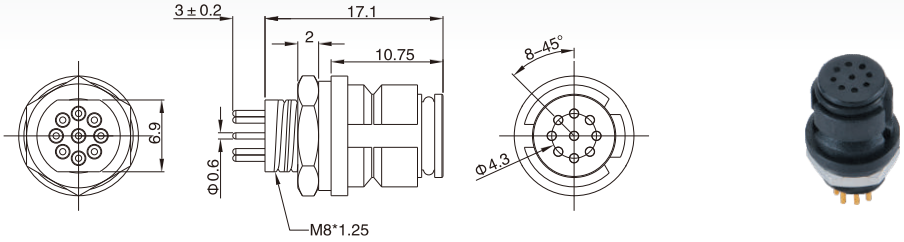
Remarks

• Please refer to Page 14 for products' part number encoding rule.

M10 Female Panel Mount, PCB Type, Rear Fastened

- Connector series: M10
- Gender: Female
- Locking type: Snap–in
- Mounting type: Rear fastened
- Part No.: MB10FBARI**ST

** refers to pins number



General information

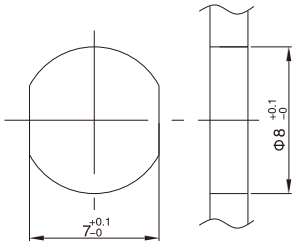
Ambient temperature:	–20 ℃ ~ + 80℃
Connector insert:	PA + GF
Connector contacts:	Brass with gold plated
Coupling nut:	Brass with nickel plated
O–ring:	FKM

Insulation resistance:	⩾ 20 MΩ
Contact resistance :	⩽ 5 mΩ
Shielding:	Unavailable
IP rating:	IP 65 in locked condition

Electrical data & Mechanical data

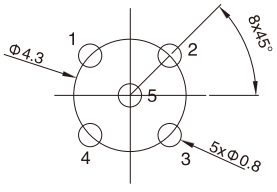
Contacts		Contacts termination	Rated current	Voltage	
				A/C	D/C
05 pins		PCB version	2A	60V	72V
09 pins		PCB version	1A	30V	30V

Panel Cut–out Dimensions

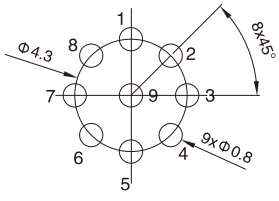


Panel cut–out

PCB Layout



5Pins Female



9Pins Female

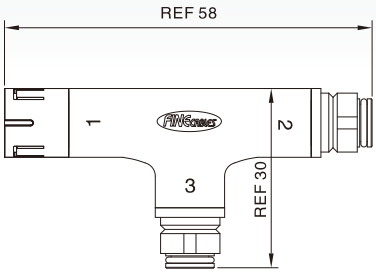
Remarks

• Please refer to Page 14 for products' part number encoding rule.

M10 T-Splitter,Female-Male-Female

- Connector series: M10
- Gender: Female&Male
- Locking type: Snap–in
- Mounting type: T–type
- Part No.: MT10–AI**

** refers to pins number





General information

Ambient temperature:	–20 ℃ ~ + 80℃
Connector insert:	PA + GF
Connector contacts:	Brass with gold plated
Coupling nut:	TPU

Insulation resistance:	⩾ 20 MΩ
Contact resistance:	⩽ 5 mΩ
Shielding:	Unavailable
IP rating:	IP 65 in locked condition

Electrical data & Mechanical data

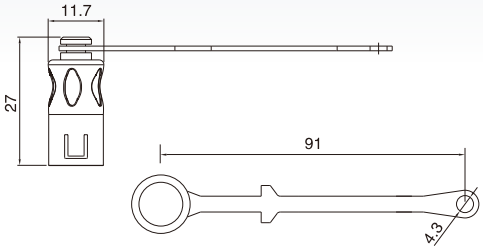
Contacts		Contacts termination	Rated current	Voltage	
				A/C	D/C
05 pins	 male female	Solder	2A	60V	72V

Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm^2.
- Please refer to Page 13 for products' part number encoding rule.

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:	IP 65 in locked condition

Circular **sensor**
connectors



M12 cables & connectors

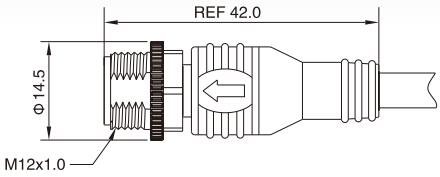
The M12 series features sensor and actuator connectors with a locking thread for electronics automation, process control, and commercial electronics. We offer many different cable connectors, panel mounted receptacles, field attachable/installable connectors and various accessories. Our connectors have industry–standard A,B,C, and D cording, for both screw–locking and quick–locking styles.

- Design as per IEC 61076–2–101
- IP67,IP68, IP69K and UL approvals
- 360° Shielded or non–shielded versions are available
- 2~17 poles are available
- A,B,C,D,S,T,X codings are available
- Right angled PCB panel connector is available
- TPU over molded, PA+GF or metal shell
- T–splitter and Y–splitter are available
- Anti–vibration locking screw design
- Cable length customized, PUR and PVC cable options

M12 Male Molded Cable, Straight

- Connector series: M12
- Gender: Male
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MA12M*HD**STXXXXXX

* refers to coding type
** refers to pins number
X refers to cable specification





General information

Standard:	IEC 61076–2–101
Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–20℃ ~ +80℃(flexible 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, IP69K in locked condition

Electrical data & Mechanical data

Contacts	Available Coding				Rated current	Voltage		Wire gauge / size		Cable jacket	Cable ending & length
	A	B	C	D		A/C	D/C	AWG	mm²		
03 pins			 (2+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	Customized cable ending and length
04 pins			 (3+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	
05 pins			 (4+PE)		4A 2A(C–code)	60V	60V	22AWG 24(C–code)	0.34 0.25(C–code)	PUR / PVC	
06 pins			 (5+PE)		2A	30V	30V	24AWG	0.25	PUR / PVC	
08 pins					2A	30V	30V	24AWG	0.25	PUR / PVC	
12 pins					1.5A	30V	30V	26AWG	0.14	PUR / PVC	
17 pins					1.5A	30V	30V	26AWG	0.14	PUR / PVC	17pin with different overmold from above other pins.

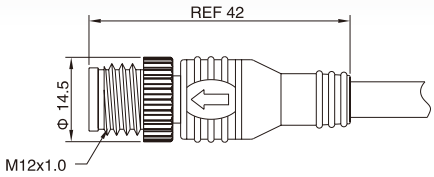
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 13 for products' part number encoding rule.

M12 Male Molded Cable, Straight, Plastic Screw

- Connector series: M12
- Gender: Male
- Coding: A,B,C,D
- Locking type: Plastic fix screw
- Mounting type: Straight
- Part No.: MA12M*P**STXXXXXX

* refers to coding type
** refers to pins number
X refers to cable specification





General information

Standard:	IEC 61076–2–101
Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–20℃ ~ +80℃(flexible installation)
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Coupling/screw:	PA+GF

Insulation resistance:	⩾ 100MΩ
Contact resistance :	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP67 in locked condition

Electrical data & Mechanical data

Contacts	Available Coding				Rated current	Voltage		Wire gauge / size		Cable jacket	Cable ending & length
	A	B	C	D		A/C	D/C	AWG	mm²		
03 pins			 (2+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	Customized cable ending and length
04 pins			 (3+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	
05 pins			 (4+PE)		4A 2A(C–code)	60V	60V	22AWG 24(C–code)	0.34 0.25(C–code)	PUR / PVC	
06 pins			 (5+PE)		2A	30V	30V	24AWG	0.25	PUR / PVC	
08 pins					2A	30V	30V	24AWG	0.25	PUR / PVC	
12 pins					1.5A	30V	30V	26AWG	0.14	PUR / PVC	

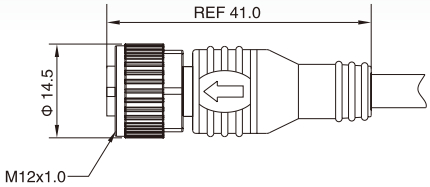
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 13 for products' part number encoding rule.

M12 Female Molded Cable, Straight

- Connector series: M12
- Gender: Female
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MA12F*HD**STXXXXXX

* refers to coding type
** refers to pins number
X refers to cable specification





General information

Standard:	IEC 61076–2–101
Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–20℃ ~ +80℃(flexible installation)
Connector insert:	TPU; PA
Connector overmold:	TPU
Coupling nut/screw:	Zinc alloy with nickel plated
Seal / O–ring:	FKM

Connector contacts:	Brass with gold plated
Insulation resistance:	⩾ 100MΩ
Contact resistance :	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP67, IP69K in locked condition

Electrical data & Mechanical data

Contacts	Available Coding				Rated current	Voltage		Wire gauge / size		Cable jacket	Cable ending & length
	A	B	C	D		A/C	D/C	AWG	mm²		
03 pins			 (2+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	Customized cable ending and length
04 pins			 (3+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	
05 pins			 (4+PE)		4A 2A(C–code)	60V	60V	22AWG 24(C–code)	0.34 0.25(C–code)	PUR / PVC	
06 pins			 (5+PE)		2A	30V	30V	24AWG	0.25	PUR / PVC	
08 pins					2A	30V	30V	24AWG	0.25	PUR / PVC	
12 pins					1.5A	30V	30V	26AWG	0.14	PUR / PVC	
17 pins					1.5A	30V	30V	26AWG	0.14	PUR / PVC	17pin with different overmold from above other pins.

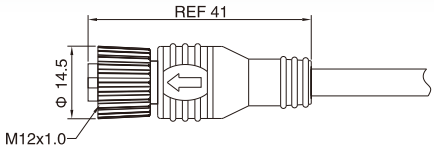
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 13 for products' part number encoding rule.

M12 Female Molded Cable, Straight, Plastic Nut

- Connector series: M12
- Gender: Female
- Coding: A,B,C,D
- Locking type: Plastic fix screw
- Mounting type: Straight
- Part No.: MA12F*P**STXXXXXX

* refers to coding type
** refers to pins number
X refers to cable specification





General information

Standard:	IEC 61076–2–101
Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–20℃ ~ +80℃(flexible installation)
Connector insert:	TPU; PA
Connector overmold:	TPU
Coupling nut:	PA+GF
Seal / O–ring:	FKM

Connector contacts:	Brass with gold plated
Insulation resistance:	⩾ 100MΩ
Contact resistance :	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP67 in locked condition

Electrical data & Mechanical data

Contacts	Available Coding				Rated current	Voltage		Wire gauge / size		Cable jacket	Cable ending & length
	A	B	C	D		A/C	D/C	AWG	mm²		
03 pins			 (2+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	Customized cable ending and length
04 pins			 (3+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	
05 pins			 (4+PE)		4A 2A(C–code)	60V	60V	22AWG 24(C–code)	0.34 0.25(C–code)	PUR / PVC	
06 pins			 (5+PE)		2A	30V	30V	24AWG	0.25	PUR / PVC	
08 pins					2A	30V	30V	24AWG	0.25	PUR / PVC	
12 pins					1.5A	30V	30V	26AWG	0.14	PUR / PVC	

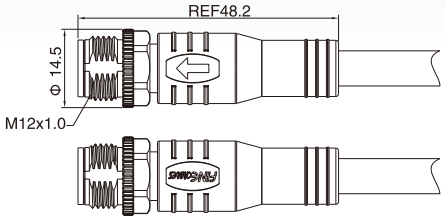
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 13 for products' part number encoding rule.

M12 Male Molded Cable, Straight, Shielded

- Connector series: M12
- Gender: Male
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MA12MS*HD**STXXXXXX

* refers to coding type
** refers to pins number
X refers to cable specification





General information

Standard:	IEC 61076–2–101
Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–20℃ ~ +80℃(flexible installation)
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Coupling nut/screw:	Zinc alloy with nickel plated

Insulation resistance:	⩾ 100MΩ
Contact resistance :	⩽ 5mΩ
Shielding:	Available
IP rating:	IP67 in locked condition

Electrical data & Mechanical data

Contacts	Available Coding				Rated current	Voltage		Wire gauge / size		Cable jacket	Cable ending & length
	A	B	C	D		A/C	D/C	AWG	mm²		
03 pins			 (2+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	Customized cable ending and length
04 pins			 (3+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	
05 pins			 (4+PE)		4A 2A(C–code)	60V	60V	22AWG 24(C–code)	0.34 0.25(C–code)	PUR / PVC	
06 pins			 (5+PE)		2A	30V	30V	24AWG	0.25	PUR / PVC	
08 pins					2A	30V	30V	24AWG	0.25	PUR / PVC	
12 pins					1.5A	30V	30V	26AWG	0.14	PUR / PVC	12pin, 17pin with different overmold from above other pins.
17 pins					1.5A	30V	30V	26AWG	0.14	PUR / PVC	

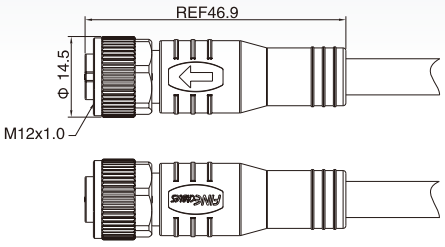
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 13 for products' part number encoding rule.

M12 Female Molded Cable, Straight, Shielded

- Connector series: M12
- Gender: Female
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MA12FS*HD**STXXXXXX

* refers to coding type
** refers to pins number
X refers to cable specification





General information

Standard:	IEC 61076–2–101
Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–20℃ ~ +80℃(flexible installation)
Connector insert:	PA
Connector overmold:	TPU
Coupling nut/screw:	Zinc alloy with nickel plated
Seal / O–ring:	FKM

Connector contacts:	Brass with gold plated
Insulation resistance:	⩾ 100MΩ
Contact resistance :	⩽ 5mΩ
Shielding:	Available
IP rating:	IP67 in locked condition

Electrical data & Mechanical data

Contacts	Available Coding				Rated current	Voltage		Wire gauge / size		Cable jacket	Cable ending & length
	A	B	C	D		A/C	D/C	AWG	mm²		
03 pins			 (2+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	
04 pins			 (3+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	
05 pins			 (4+PE)		4A 2A(C–code)	60V	60V	22AWG 24(C–code)	0.34 0.25(C–code)	PUR / PVC	Customized cable ending and length
06 pins			 (5+PE)		2A	30V	30V	24AWG	0.25	PUR / PVC	
08 pins					2A	30V	30V	24AWG	0.25	PUR / PVC	
12 pins					1.5A	30V	30V	26AWG	0.14	PUR / PVC	12pin, 17pin with different overmold from above other pins.
17 pins					1.5A	30V	30V	26AWG	0.14	PUR / PVC	

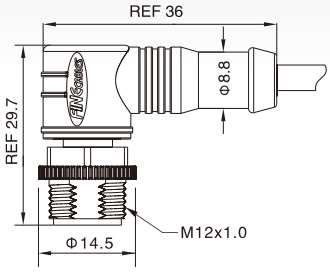
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 13 for products' part number encoding rule.

M12 Male Molded Cable, Angled

- Connector series: M12
- Gender: Male
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Right angled
- Part No.: MA12M*HD**RAXXXXXX

* refers to coding type
** refers to pins number
X refers to cable specification





General information

Standard:	IEC 61076–2–101
Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–20℃ ~ +80℃(flexible 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, IP69K in locked condition

Electrical data & Mechanical data

Contacts	Available Coding				Rated current	Voltage		Wire gauge / size		Cable jacket	Cable ending & length
	A	B	C	D		A/C	D/C	AWG	mm²		
03 pins			 (2+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	Customized cable ending and length
04 pins			 (3+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	
05 pins			 (4+PE)		4A 2A(C–code)	60V	60V	22AWG 24(C–code)	0.34 0.25(C–code)	PUR / PVC	
06 pins			 (5+PE)		2A	30V	30V	24AWG	0.25	PUR / PVC	
08 pins					2A	30V	30V	24AWG	0.25	PUR / PVC	
12 pins					1.5A	30V	30V	26AWG	0.14	PUR / PVC	12pin, 17pin with different overmold from above other pins.
17 pins					1.5A	30V	30V	26AWG	0.14	PUR / PVC	

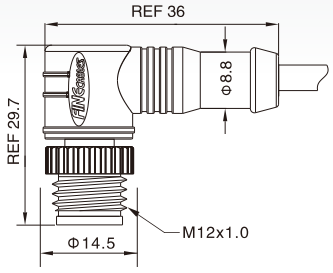
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 13 for products' part number encoding rule.

M12 Male Molded Cable, Angled, Plastic Screw

- Connector series: M12
- Gender: Male
- Coding: A,B,C,D
- Locking type: Plastic fix screw
- Mounting type: Right angled
- Part No.: MA12M*P**RAXXXXXX

* refers to coding type
** refers to pins number
X refers to cable specification





General information

Standard:	IEC 61076–2–101
Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–20℃ ~ +80℃(flexible installation)
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Coupling nut/screw:	PA+GF

Insulation resistance:	⩾ 100MΩ
Contact resistance :	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP67, IP69K in locked condition

Electrical data & Mechanical data

Contacts	Available Coding				Rated current	Voltage		Wire gauge / size		Cable jacket	Cable ending & length
	A	B	C	D		A/C	D/C	AWG	mm²		
03 pins			 (2+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	
04 pins			 (3+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	
05 pins			 (4+PE)		4A 2A(C–code)	60V	60V	22AWG 24(C–code)	0.34 0.25(C–code)	PUR / PVC	Customized cable ending and length
06 pins			 (5+PE)		2A	30V	30V	24AWG	0.25	PUR / PVC	
08 pins					2A	30V	30V	24AWG	0.25	PUR / PVC	
12 pins					1.5A	30V	30V	26AWG	0.14	PUR / PVC	12pin, 17pin with different overmold from above other pins.
17 pins					1.5A	30V	30V	26AWG	0.14	PUR / PVC	

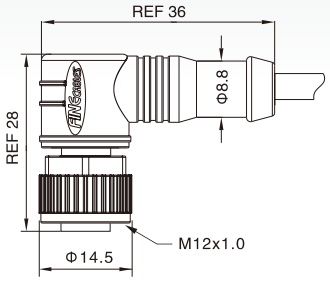
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 13 for products' part number encoding rule.

M12 Female Molded Cable, Angled

- Connector series: M12
- Gender: Female
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Right angled
- Part No.: MA12F*HD**RAXXXXXX

* refers to coding type
** refers to pins number
X refers to cable specification





General information

Standard:	IEC 61076–2–101
Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–20℃ ~ +80℃(flexible installation)
Connector insert:	TPU; PA
Connector overmold:	TPU
Coupling nut/screw:	Zinc alloy with nickel plated
Seal / O–ring:	FKM

Connector contacts:	Brass with gold plated
Insulation resistance:	⩾ 100MΩ
Contact resistance :	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP67, IP69K in locked condition

Electrical data & Mechanical data

Contacts	Available Coding				Rated current	Voltage		Wire gauge / size		Cable jacket	Cable ending & length
	A	B	C	D		A/C	D/C	AWG	mm²		
03 pins			 (2+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	Customized cable ending and length
04 pins			 (3+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	
05 pins			 (4+PE)		4A 2A(C–code)	60V	60V	22AWG 24(C–code)	0.34 0.25(C–code)	PUR / PVC	
06 pins			 (5+PE)		2A	30V	30V	24AWG	0.25	PUR / PVC	
08 pins					2A	30V	30V	24AWG	0.25	PUR / PVC	
12 pins					1.5A	30V	30V	26AWG	0.14	PUR / PVC	12pin, 17pin with different overmold from above other pins.
17 pins					1.5A	30V	30V	26AWG	0.14	PUR / PVC	

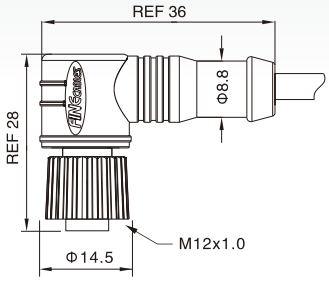
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 13 for products' part number encoding rule.

M12 Female Molded Cable, Angled, Plastic Nut

- Connector series: M12
- Gender: Female
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Right angled
- Part No.: MA12F*P**RAXXXXXX

* refers to coding type
** refers to pins number
X refers to cable specification





General information

Standard:	IEC 61076–2–101
Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–20℃ ~ +80℃(flexible installation)
Connector insert:	TPU; PA
Connector overmold:	TPU
Coupling nut:	PA+GF
Seal / O–ring:	FKM

Connector contacts:	Brass with gold plated
Insulation resistance:	⩾ 100MΩ
Contact resistance :	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP67, IP69K in locked condition

Electrical data & Mechanical data

Contacts	Available Coding				Rated current	Voltage		Wire gauge / size		Cable jacket	Cable ending & length
	A	B	C	D		A/C	D/C	AWG	mm²		
03 pins			 (2+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	
04 pins			 (3+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	
05 pins			 (4+PE)		4A 2A(C–code)	60V	60V	22AWG 24(C–code)	0.34 0.25(C–code)	PUR / PVC	Customized cable ending and length
06 pins			 (5+PE)		2A	30V	30V	24AWG	0.25	PUR / PVC	
08 pins					2A	30V	30V	24AWG	0.25	PUR / PVC	
12 pins					1.5A	30V	30V	26AWG	0.14	PUR / PVC	12pin, 17pin with different overmold from above other pins.
17 pins					1.5A	30V	30V	26AWG	0.14	PUR / PVC	

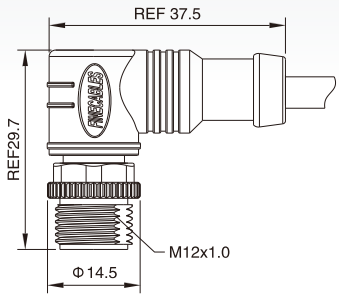
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 13 for products' part number encoding rule.

M12 Male Molded Cable, Angled, Shielded

- Connector series: M12
- Gender: Male
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Right angled
- Part No.: MA12MS*HD**RAXXXXXX

* refers to coding type
** refers to pins number
X refers to cable specification





General information

Standard:	IEC 61076–2–101
Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–20℃ ~ +80℃(flexible installation)
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector nut/screw:	Zinc alloy with nickel plated

Insulation resistance:	⩾ 100MΩ
Contact resistance :	⩽ 5mΩ
Shielding:	Available
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts	Available Coding				Rated current	Voltage		Wire gauge / size		Cable jacket	Cable ending & length
	A	B	C	D		A/C	D/C	AWG	mm²		
03 pins			 (2+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	Customized cable ending and length
04 pins			 (3+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	
05 pins			 (4+PE)		4A 2A(C–code)	60V	60V	22AWG 24(C–code)	0.34 0.25(C–code)	PUR / PVC	
06 pins			 (5+PE)		2A	30V	30V	24AWG	0.25	PUR / PVC	
08 pins					2A	30V	30V	24AWG	0.25	PUR / PVC	
12 pins					1.5A	30V	30V	26AWG	0.14	PUR / PVC	12pin, 17pin with different overmold from above other pins.
17 pins					1.5A	30V	30V	26AWG	0.14	PUR / PVC	

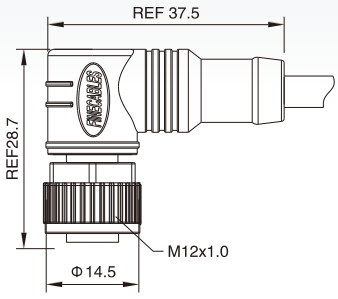
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 13 for products' part number encoding rule.

M12 Female Molded Cable, Angled, Shielded

- Connector series: M12
- Gender: Female
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Right angled
- Part No.: MA12FS*HD**RAXXXXXX

* refers to coding type
** refers to pins number
X refers to cable specification





General information

Standard:	IEC 61076–2–101
Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–20℃ ~ +80℃(flexible installation)
Connector insert:	PA
Connector overmold:	TPU
Connector nut/screw:	Zinc alloy with nickel plated
Seal / O–ring:	FKM

Connector contacts:	Brass with gold plated
Insulation resistance:	⩾ 100MΩ
Contact resistance :	⩽ 5mΩ
Shielding:	Available
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts	Available Coding				Rated current	Voltage		Wire gauge / size		Cable jacket	Cable ending & length
	A	B	C	D		A/C	D/C	AWG	mm²		
03 pins			 (2+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	Customized cable ending and length
04 pins			 (3+PE)		4A	250V	250V	22AWG	0.34	PUR / PVC	
05 pins			 (4+PE)		4A 2A(C–code)	60V	60V	22AWG 24(C–code)	0.34 0.25(C–code)	PUR / PVC	
06 pins			 (5+PE)		2A	30V	30V	24AWG	0.25	PUR / PVC	
08 pins					2A	30V	30V	24AWG	0.25	PUR / PVC	
12 pins					1.5A	30V	30V	26AWG	0.14	PUR / PVC	12pin, 17pin with different overmold from above other pins.
17 pins					1.5A	30V	30V	26AWG	0.14	PUR / PVC	

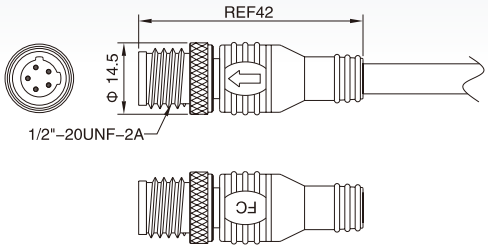
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 13 for products' part number encoding rule.

Micro-change 1/2"-20UNF Male Molded Cable, Straight

- Connector series: Micro–change
- Gender: Male
- Coding: C
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MC–WM**STMF–XXXXXX

** refers to pins number
X refers to cable specification





General information

Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–20℃ ~ +80℃(flexible installation)
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector nut/screw:	Brass with nickel plated

Insulation resistance:	⩾ 100MΩ
Contact resistance :	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP67, IP69K in locked condition

Electrical data & Mechanical data

Contacts		Rated current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Cable ending & length
			A/C	D/C	AWG	mm²			
02 pins		4A	250V	250V	22AWG	0.34	PUR / PVC	PVC	Customized cable ending and length
03 pins		4A	250V	250V	22AWG	0.34	PUR / PVC	PVC	
04 pins		4A	250V	250V	22AWG	0.34	PUR / PVC	PVC	
05 pins		2A	60V	60V	24AWG	0.25	PUR / PVC	PVC	
06 pins		2A	30V	30V	24AWG	0.25	PUR / PVC	PVC	

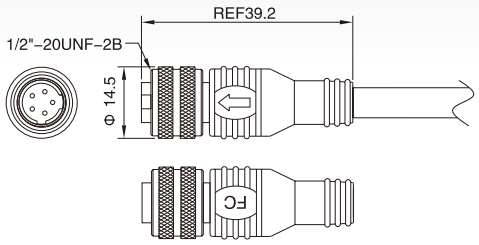
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 13 for products' part number encoding rule.

Micro-change 1/2"-20UNF Female Molded Cable, Straight

- Connector series: Micro–change
- Gender: Female
- Coding: C
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MC–WF**STMF–XXXXXX

** refers to pins number
X refers to cable specification





General information

Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–20℃ ~ +80℃(flexible installation)
Connector insert:	PA+GF
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector nut/screw:	Brass with nickel plated
Seal / O–ring:	FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance :	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP67, IP69K in locked condition

Electrical data & Mechanical data

Contacts		Rated current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Cable ending & length
			A/C	D/C	AWG	mm²			
02 pins		4A	250V	250V	22AWG	0.34	PUR / PVC	PVC	Customized cable ending and length
03 pins		4A	250V	250V	22AWG	0.34	PUR / PVC	PVC	
04 pins		4A	250V	250V	22AWG	0.34	PUR / PVC	PVC	
05 pins		2A	60V	60V	24AWG	0.25	PUR / PVC	PVC	
06 pins		2A	30V	30V	24AWG	0.25	PUR / PVC	PVC	

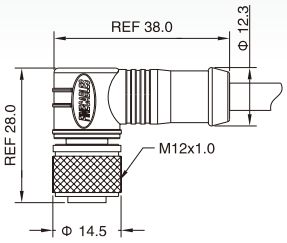
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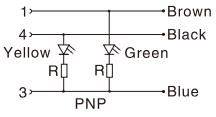
- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 13 for products' part number encoding rule.

M12 Female Molded Cable, Angled, with LED Indicator(PNP)

- Connector series: M12
- Gender: Female
- Coding: A
- Locking type: Fix screw
- Mounting type: Right angled
- Part No.: MA12LPAF**RAXXXXXX

** refers to pins number
X refers to cable specification





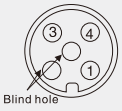


General information

Standard:	IEC 61076–2–101
Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–20℃ ~ +80℃(flexible installation)
Connector insert:	PA+GF
Connector contacts:	Brass with gold plated
Connector overmold:	Transparent TPU
Connector nut/screw:	Brass with nickel plated
Seal / O–ring:	FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance :	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts		Rated current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Cable ending & length
			A/C	D/C	AWG	mm^2			
3Pin		4A	30V	30V	22AWG	0.34	PUR / PVC	PVC	Customized cable ending and length

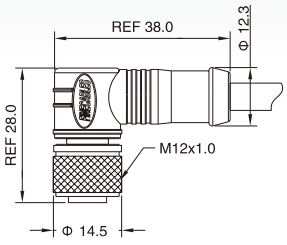
Remarks

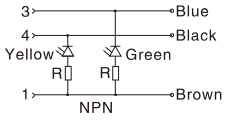
- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm^2.
- Please refer to Page 13 for products' part number encoding rule.

M12 Female Molded Cable, Angled, with LED Indicator(NPN)

- Connector series: M12
- Gender: Female
- Coding: A
- Locking type: Fix screw
- Mounting type: Right angled
- Part No.: MA12LNAF**RAXXXXXX

** refers to pins number
X refers to cable specification





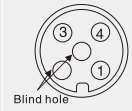


General information

Standard:	IEC 61076–2–101
Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–20℃ ~ +80℃(flexible installation)
Connector insert:	PA+GF
Connector contacts:	Brass with gold plated
Connector overmold:	Transparent TPU
Connector nut/screw:	Brass with nickel plated
Seal / O–ring:	FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance :	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

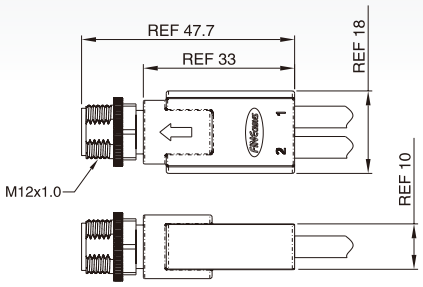
Contacts		Rated current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Cable ending & length
			A/C	D/C	AWG	mm²			
3Pin		4A	30V	30V	22AWG	0.34	PUR / PVC	PVC	Customized cable ending and length

Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 13 for products' part number encoding rule.

M12 Male Molded 2 Cables, Straight

- Connector series: M12
- Gender: Male
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MT–015~021;
  MT–049~052





General information

Standard:	IEC 61076–2–101
Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–20℃ ~ +80℃(flexible installation)
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector nut/screw:	Zinc alloy with nickel plated

Insulation resistance:	⩾ 100MΩ
Contact resistance :	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

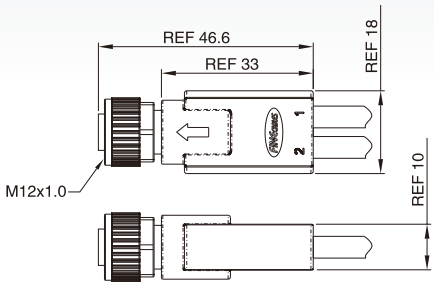
Contacts	Available Coding				Rated current	Voltage		Wire gauge / size		Cable jacket	Cable ending & length
	A	B	C	D		A/C	D/C	AWG	mm²		
03 pins	MT–015	MT–018	(2+PE) MT–049		4A	250V	250V	22AWG	0.34	PUR / PVC	Customized cable ending and length
04 pins	MT–016	MT–019	(3+PE) MT–050	MT–021	4A	250V	250V	22AWG	0.34	PUR / PVC	
05 pins	MT–017	MT–020	(4+PE) MT–051		4A 2A(C–code)	60V	60V	22AWG 24(C–code)	0.34 0.25(C–code)	PUR / PVC	
06 pins			(5+PE) MT–052		2A	30V	30V	24AWG	0.25	PUR / PVC	
08 pins	Available				2A	30V	30V	24AWG	0.25	PUR / PVC	

Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 13 for products' part number encoding rule.

M12 Female Molded 2 Cables, Straight

- Connector series: M12
- Gender: Female
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MT–029~035;
  MT–057~060





General information

Standard:	IEC 61076–2–101
Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–20℃ ~ +80℃(flexible installation)
Connector insert:	TPU;PA
Connector overmold:	TPU
Connector nut/screw:	Zinc alloy with nickel plated
Seal / O–ring:	FKM

Connector contacts:	Brass with gold plated
Insulation resistance:	⩾ 100MΩ
Contact resistance :	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

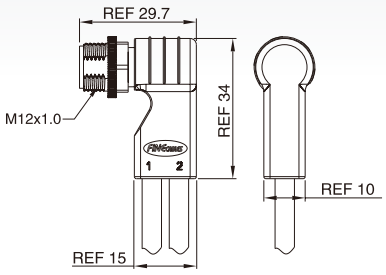
Contacts	Available Coding				Rated current	Voltage		Wire gauge / size		Cable jacket	Cable ending & length
	A	B	C	D		A/C	D/C	AWG	mm²		
03 pins	 MT–029	 MT–032	 (2+PE) MT–057		4A	250V	250V	22AWG	0.34	PUR / PVC	Customized cable ending and length
04 pins	 MT–030	 MT–033	 (3+PE) MT–058	 MT–035	4A	250V	250V	22AWG	0.34	PUR / PVC	
05 pins	 MT–031	 MT–034	 (4+PE) MT–059		4A 2A(C–code)	60V	60V	22AWG 24(C–code)	0.34 0.25(C–code)	PUR / PVC	
06 pins			 (5+PE) MT–060		2A	30V	30V	24AWG	0.25	PUR / PVC	
08 pins	 Available				2A	30V	30V	24AWG	0.25	PUR / PVC	

Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 13 for products' part number encoding rule.

M12 Male Molded 2 Cables, Angled

- Connector series: M12
- Gender: Male
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Right angled
- Part No.: MT–022~028;
  MT–053~056





General information

Standard:	IEC 61076–2–101
Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–20℃ ~ +80℃(flexible installation)
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector nut/screw:	Zinc alloy with nickel plated

Insulation resistance:	⩾ 100MΩ
Contact resistance :	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

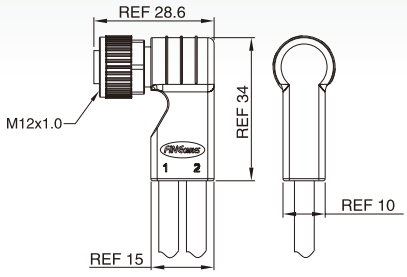
Contacts	Available Coding				Rated current	Voltage		Wire gauge / size		Cable jacket	Cable ending & length
	A	B	C	D		A/C	D/C	AWG	mm²		
03 pins	MT–022	MT–025	(2+PE) MT–053		4A	250V	250V	22AWG	0.34	PUR / PVC	Customized cable ending and length
04 pins	MT–023	MT–026	(3+PE) MT–054	MT–028	4A	250V	250V	22AWG	0.34	PUR / PVC	
05 pins	MT–024	MT–027	(4+PE) MT–055		4A 2A(C–code)	60V	60V	22AWG 24(C–code)	0.34 0.25(C–code)	PUR / PVC	
06 pins			(5+PE) MT–056		2A	30V	30V	24AWG	0.25	PUR / PVC	

Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 13 for products' part number encoding rule.

M12 Female Molded 2 Cables, Angled

- Connector series: M12
- Gender: Female
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Right angled
- Part No.: MT–036~042;
  MT–061~064





General information

Standard:	IEC 61076–2–101
Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–20℃ ~ +80℃(flexible installation)
Connector insert:	TPU;PA
Connector overmold:	TPU
Connector nut/screw:	Zinc alloy with nickel plated
Seal / O–ring:	FKM

Connector contacts:	Brass with gold plated
Insulation resistance:	⩾ 100MΩ
Contact resistance :	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts	Available Coding				Rated current	Voltage		Wire gauge / size		Cable jacket	Cable ending & length
	A	B	C	D		A/C	D/C	AWG	mm²		
03 pins	MT–036	MT–039	(2+PE) MT–061		4A	250V	250V	22AWG	0.34	PUR / PVC	Customized cable ending and length
04 pins	MT–037	MT–040	(3+PE) MT–062	MT–042	4A	250V	250V	22AWG	0.34	PUR / PVC	
05 pins	MT–038	MT–041	(4+PE) MT–063		4A 2A(C–code)	60V	60V	22AWG 24(C–code)	0.34 0.25(C–code)	PUR / PVC	
06 pins			(5+PE) MT–064		2A	30V	30V	24AWG	0.25	PUR / PVC	

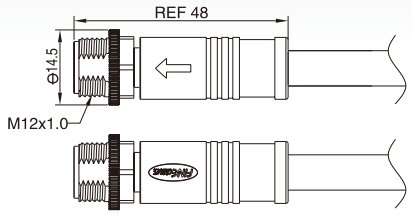
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 13 for products' part number encoding rule.

M12 Male Molded Cable, Straight, S-coding

- Connector series: M12
- Gender: Male
- Coding: S
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MA12MSHD04STXXXXXX

X refers to cable specification





General information

Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–20℃ ~ +80℃(flexible installation)
Connector insert:	TPU;PA
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector screw:	Zinc alloy with nickel plated

Insulation resistance:	⩾ 100MΩ
Contact resistance :	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP67 in locked condition

Electrical data & Mechanical data

Contacts	S–Coding	Rated current	Rated voltage	Wire gauge / size		Cable jacket	Wire insulation	Cable ending & length
				AWG	mm^2			
04 pins	 (3+PE)	12A(40℃)	630V	16AWG	1.5	PUR / PVC	PVC	Customized wire ending and length

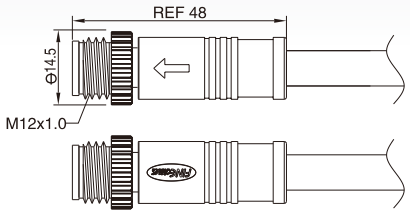
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm^2.
- Please refer to Page 13 for products' part number encoding rule.

M12 Male Molded Cable, Straight, S-coding, Plastic Screw

- Connector series: M12
- Gender: Male
- Coding: S
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MA12MSP04STXXXXXX

X refers to cable specification





General information

Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–20℃ ~ +80℃(flexible installation)
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector screw:	PA+GF

Insulation resistance:	≥ 100MΩ
Contact resistance :	≤ 5mΩ
Shielding:	Unavailable
IP rating:	IP67 in locked condition

Electrical data & Mechanical data

Contacts	S–Coding	Rated current	Rated voltage	Wire gauge / size		Cable jacket	Wire insulation	Cable ending & length
				AWG	mm^2			
04 pins	 (3+PE)	12A(40℃)	630V	16AWG	1.5	PUR / PVC	PVC	Customized wire ending and length

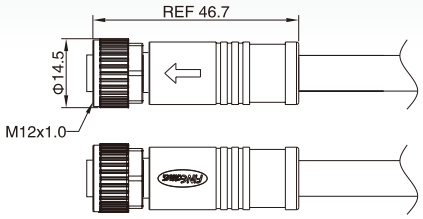
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm^2.
- Please refer to Page 13 for products' part number encoding rule.

M12 Female Molded Cable, Straight, S-coding

- Connector series: M12
- Gender: Female
- Coding: S
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MA12FSHD04STXXXXXX

X refers to cable specification





General information

Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–20℃ ~ +80℃(flexible installation)
Connector insert:	TPU;PA
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector nut:	Zinc alloy with nickel plated
Seal / O–ring:	FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance :	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP67 in locked condition

Electrical data & Mechanical data

Contacts	S–Coding	Rated current	Rated voltage	Wire gauge / size		Cable jacket	Wire insulation	Cable ending & length
				AWG	mm^2			
04 pins	 (3+PE)	12A(40℃)	630V	16AWG	1.5	PUR / PVC	PVC	Customized wire ending and length

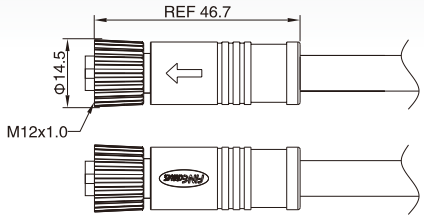
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm^2.
- Please refer to Page 13 for products' part number encoding rule.

M12 Female Molded Cable, Straight, S-coding, Plastic Nut

- Connector series: M12
- Gender: Female
- Coding: S
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MA12FSP04STXXXXXX

  X refers to cable specification





General information

Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–20℃ ~ +80℃(flexible installation)
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector nut:	PA+GF
Seal / O–ring:	FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance :	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP67 in locked condition

Electrical data & Mechanical data

Contacts	S–Coding	Rated current	Rated voltage	Wire gauge / size		Cable jacket	Wire insulation	Cable ending & length
				AWG	mm^2			
04 pins	 (3+PE)	12A(40℃)	630V	16AWG	1.5	PUR / PVC	PVC	Customized wire ending and length

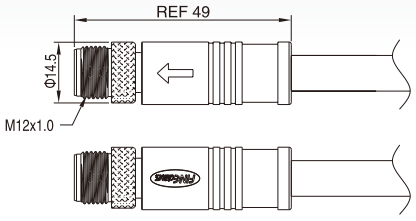
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm^2.
- Please refer to Page 13 for products' part number encoding rule.

M12 Male Molded Cable, Straight, S-coding, Shielded

- Connector series: M12
- Gender: Male
- Coding: S
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MA12MSSF04STXXXXXX

X refers to cable specification





General information

Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–20℃ ~ +80℃(flexible installation)
Connector insert:	TPU; PA
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector screw:	Brass with nickel plated

Insulation resistance:	⩾ 100MΩ
Contact resistance :	⩽ 5mΩ
Shielding:	Available
IP rating:	IP67 in locked condition

Electrical data & Mechanical data

Contacts	S–Coding	Rated current	Rated voltage	Wire gauge / size		Cable jacket	Wire insulation	Cable ending & length
				AWG	mm^2			
04 pins	 (3+PE)	12A(40℃)	630V	16AWG	1.5	PUR / PVC	PVC	Customized wire ending and length

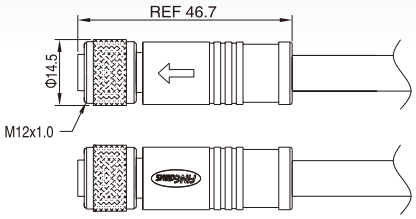
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm^2.
- Please refer to Page 13 for products' part number encoding rule.

M12 Female Molded Cable, Straight, S-coding, Shielded

- Connector series: M12
- Gender: Female
- Coding: S
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MA12FSSF04STXXXXXX

X refers to cable specification





General information

Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–20℃ ~ +80℃(flexible installation)
Connector insert:	TPU; PA
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector nut:	Brass with nickel plated
Seal / O–ring:	FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance :	⩽ 5mΩ
Shielding:	Available
IP rating:	IP67 in locked condition

Electrical data & Mechanical data

Contacts	S–Coding	Rated current	Rated voltage	Wire gauge / size		Cable jacket	Wire insulation	Cable ending & length
				AWG	mm^2			
04 pins	 (3+PE)	12A(40℃)	630V	16AWG	1.5	PUR / PVC	PVC	Customized wire ending and length

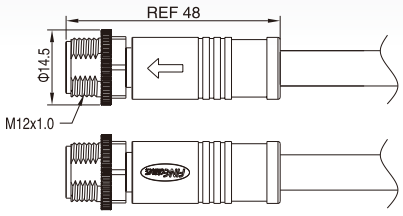
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm^2.
- Please refer to Page 13 for products' part number encoding rule.

M12 Male Molded Cable, Straight, T-coding

- Connector series: M12
- Gender: Male
- Coding: T
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MA12MTHD04STXXXXXX

X refers to cable specification





General information

Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–20℃ ~ +80℃(flexible installation)
Connector insert:	TPU+GF
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector screw:	Zinc alloy with nickel plated

Insulation resistance:	⩾ 100MΩ
Contact resistance :	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP67 in locked condition

Electrical data & Mechanical data

Contacts	T–Coding	Rated current	Rated voltage	Wire gauge / size		Cable jacket	Wire insulation	Cable ending & length
				AWG	mm^2			
04 pins		12A(40℃)	60V	16AWG	1.5	PUR / PVC	PVC	Customized wire ending and length

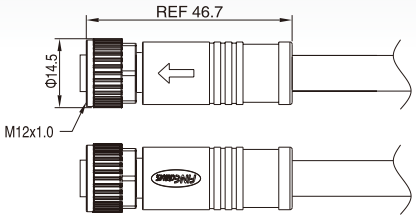
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm^2.
- Please refer to Page 13 for products' part number encoding rule.

M12 Female Molded Cable, Straight, T-coding

- Connector series: M12
- Gender: Female
- Coding: T
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MA12FTHD04STXXXXXX

X refers to cable specification





General information

Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–20℃ ~ +80℃(flexible installation)
Connector insert:	TPU+GF
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector nut:	Zinc alloy with nickel plated
Seal / O–ring:	FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance :	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP67 in locked condition

Electrical data & Mechanical data

Contacts	T–Coding	Rated current	Rated voltage	Wire gauge / size		Cable jacket	Wire insulation	Cable ending & length
				AWG	mm^2			
04 pins		12A(40℃)	60V	16AWG	1.5	PUR / PVC	PVC	Customized wire ending and length

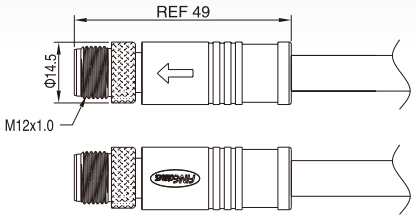
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm^2.
- Please refer to Page 13 for products' part number encoding rule.

M12 Male Molded Cable, Straight, T-coding, Shielded

- Connector series: M12
- Gender: Male
- Coding: T
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MA12MSTF04STXXXXXX

X refers to cable specification





General information

Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–20℃ ~ +80℃(flexible installation)
Connector insert:	TPU+GF
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector screw:	Brass with nickel plated

Insulation resistance:	⩾ 100MΩ
Contact resistance :	⩽ 5mΩ
Shielding:	Available
IP rating:	IP67 in locked condition

Electrical data & Mechanical data

Contacts	T–Coding	Rated current	Rated voltage	Wire gauge / size		Cable jacket	Wire insulation	Cable ending & length
				AWG	mm^2			
04 pins		12A(40℃)	60V	16AWG	1.5	PUR / PVC	PVC	Customized wire ending and length

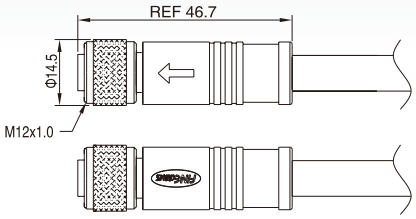
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm^2.
- Please refer to Page 13 for products' part number encoding rule.

M12 Female Molded Cable, Straight, T-coding, Shielded

- Connector series: M12
- Gender: Female
- Coding: T
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MA12FSTF04STXXXXXX

X refers to cable specification





General information

Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–20℃ ~ +80℃(flexible installation)
Connector insert:	TPU+GF
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector nut:	Brass with nickel plated
Seal / O–ring:	FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance :	⩽ 5mΩ
Shielding:	Available
IP rating:	IP67 in locked condition

Electrical data & Mechanical data

Contacts	T–Coding	Rated current	Rated voltage	Wire gauge / size		Cable jacket	Wire insulation	Cable ending & length
				AWG	mm^2			
04 pins		12A(40℃)	60V	16AWG	1.5	PUR / PVC	PVC	Customized wire ending and length

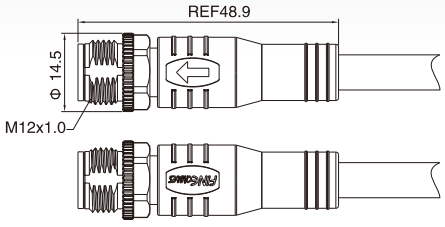
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm^2.
- Please refer to Page 13 for products' part number encoding rule.

M12 Male Molded Cable, Straight, X-coding, Shielded

- Connector series: M12
- Gender: Male
- Coding: X
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MA12MSXHD08STXXXXXX

X refers to cable specification





General information

Standard:	IEC 61076-2-109
Ambient temperature:	-40℃ ~ +80℃(fixed installation)
	-20℃ ~ +80℃(flexible installation)
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector screw:	Zinc alloy with nickel plated

Insulation resistance:	⩾ 100MΩ
Contact resistance :	⩽ 10mΩ
Shielding:	Available
IP rating:	IP67 in locked condition
Transmission characteristic:	CAT 6_A /CAT 7

Electrical data & Mechanical data

Contacts	X-Coding	Rated current	Rated voltage		Wire gauge / size		Cable spec	Cable ending & length
			A/C	D/C	AWG	mm^2		
08 pins		0.5A	50V	60V	27~24	0.14~0.25	CAT 6_A /CAT 7	Customized wire ending and length

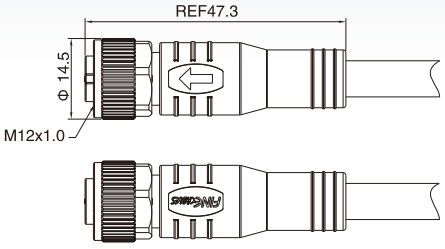
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm^2.
- Please refer to Page 13 for products' part number encoding rule.

M12 Female Molded Cable, Straight, X-coding, Shielded

- Connector series: M12
- Gender: Female
- Coding: X
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MA12FSXHD08STXXXXXX

X refers to cable specification





General information

Standard:	IEC 61076–2–109
Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–20℃ ~ +80℃(flexible installation)
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector screw:	Zinc alloy with nickel plated
Seal / O–ring:	FKM

Insulation resistance:	≥ 100MΩ
Contact resistance :	≤ 10mΩ
Shielding:	Available
IP rating:	IP67 in locked condition
Transmission characteristic:	CAT 6A /CAT 7

Electrical data & Mechanical data

Contacts	X–Coding	Rated current	Rated voltage		Wire gauge / size		Cable spec	Cable ending & length
			A/C	D/C	AWG	mm²		
08 pins		0.5A	50V	60V	27~24	0.14~0.25	CAT 6A /CAT 7	Customized wire ending and length

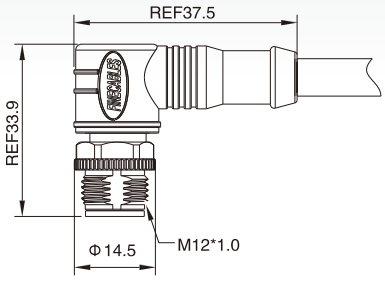
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 13 for products' part number encoding rule.

M12 Male Molded Cable, Angled, X-coding, Shielded

- Connector series: M12
- Gender: Male
- Coding: X
- Locking type: Fix screw
- Mounting type: Right angled
- Part No.: MA12MSXHD08RAXXXXXX

X refers to cable specification





General information

Standard:	IEC 61076-2-109
Ambient temperature:	-40℃ ~ +80℃(fixed installation)
	-20℃ ~ +80℃(flexible installation)
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector screw:	Zinc alloy with nickel plated

Insulation resistance:	⩾ 100MΩ
Contact resistance :	⩽ 10mΩ
Shielding:	Available
IP rating:	IP67 in locked condition
Transmission characteristic:	CAT 6_A /CAT 7

Electrical data & Mechanical data

Contacts	X-Coding	Rated current	Rated voltage		Wire gauge / size		Cable spec	Cable ending & length
			A/C	D/C	AWG	mm^2		
08 pins		0.5A	50V	60V	27~24	0.14~0.25	CAT 6_A /CAT 7	Customized wire ending and length

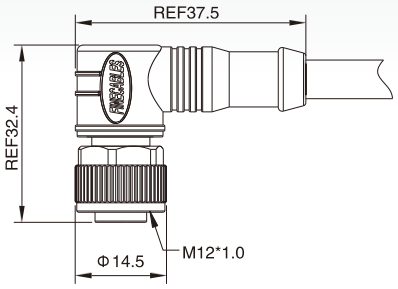
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm^2.
- Please refer to Page 13 for products' part number encoding rule.

M12 Female Molded Cable, Angled, X-coding, Shielded

- Connector series: M12
- Gender: Female
- Coding: X
- Locking type: Fix screw
- Mounting type: Right angled
- Part No.: MA12FSXHD08RAXXXXXX

X refers to cable specification





General information

Standard:	IEC 61076–2–109
Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–20℃ ~ +80℃(flexible installation)
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Connector screw:	Zinc alloy with nickel plated
Seal / O–ring:	FKM

Insulation resistance:	≥ 100MΩ
Contact resistance :	≤ 10mΩ
Shielding:	Available
IP rating:	IP67 in locked condition
Transmission characteristic:	CAT 6A /CAT 7

Electrical data & Mechanical data

Contacts	X–Coding	Rated current	Rated voltage		Wire gauge / size		Cable spec	Cable ending & length
			A/C	D/C	AWG	mm²		
08 pins		0.5A	50V	60V	27~24	0.14~0.25	CAT 6A /CAT 7	Customized wire ending and length

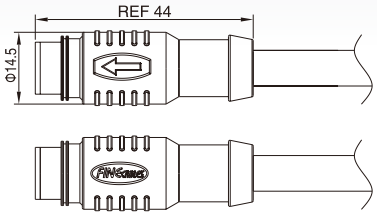
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 13 for products' part number encoding rule.

M12 Male Molded Cable, Straight, Snap-in Type

- Connector series: M12
- Gender: Male
- Coding: A,B,D
- Locking type: Snap–in
- Mounting type: Straight
- Part No.: MA12M*I**STXXXXXX

* refers to coding type
** refers to pins number
X refers to cable specification





General information

Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–20℃ ~ +80℃(flexible installation)
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector overmold:	TPU

Insulation resistance:	⩾ 100MΩ
Contact resistance :	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP67 in locked condition

Electrical data & Mechanical data

Contacts	Available Coding			Rated current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Cable ending & length
	A	B	D		A/C	D/C	AWG	mm^2			
03 pins				4A	250V	250V	22AWG	0.34	PUR / PVC	PVC	Customized cable ending and length
04 pins				4A	250V	250V	22AWG	0.34	PUR / PVC	PVC	
05 pins				4A	60V	60V	22AWG	0.34	PUR / PVC	PVC	
08 pins				2A	30V	30V	24AWG	0.25	PUR / PVC	PVC	

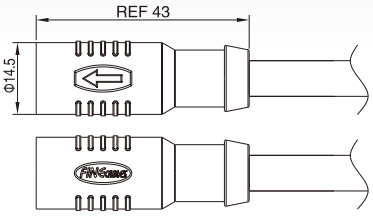
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm^2.
- Please refer to Page 13 for products' part number encoding rule.

M12 Female Molded Cable, Straight, Snap-in Type

- Connector series: M12
- Gender: Female
- Coding: A,B,D
- Locking type: Snap–in
- Mounting type: Straight
- Part No.: MA12F*I**STXXXXXX

* refers to coding type
** refers to pins number
X refers to cable specification





General information

Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–20℃ ~ +80℃(flexible installation)
Connector insert:	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

Electrical data & Mechanical data

Contacts	Available Coding			Rated current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Cable ending & length
	A	B	D		A/C	D/C	AWG	mm²			
03 pins				4A	250V	250V	22AWG	0.34	PUR / PVC	PVC	Customized cable ending and length
04 pins				4A	250V	250V	22AWG	0.34	PUR / PVC	PVC	
05 pins				4A	60V	60V	22AWG	0.34	PUR / PVC	PVC	
08 pins				2A	30V	30V	24AWG	0.25	PUR / PVC	PVC	

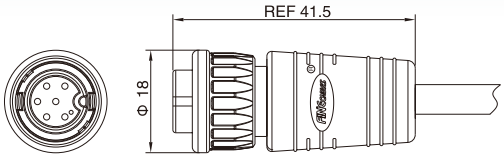
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 13 for products' part number encoding rule.

M12 Male Molded Cable, Straight, Quick-lock Type, With Fix-cap

- Connector series: M12
- Gender: Male
- Locking type: Quick–lock
- Mounting type: Straight
- Part No.: MA12MAQ**STXXXX34

** refers to pins number
X refers to cable specification





General information

Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–20℃ ~ +80℃(flexible 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:	IP 65/IP 67 in locked condition

Electrical data & Mechanical data

Contacts		Rated current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Cable ending & length
			A/C	D/C	AWG	mm^2			
04 pins		4A	250V	250V	22AWG	0.34	PUR / PVC	PVC	Customized cable ending and length
06 pins		4A	60V	60V	22AWG	0.34	PUR / PVC	PVC	

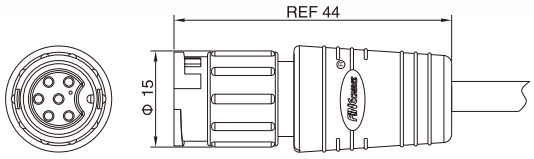
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm^2.
- Please refer to Page 13 for products' part number encoding rule.

M12 Female Molded Cable, Straight, Quick-lock Type

- Connector series: M12
- Gender: Female
- Locking type: Quick–lock
- Mounting type: Straight
- Part No.: MA12FAQ**STXXXX34

** refers to pins number
X refers to cable specification





General information

Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–20℃ ~ +80℃(flexible installation)
Connector insert:	PA + GF
Connector contacts:	Brass with gold plated
Connector nut/screw:	PA+GF

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP 65/IP 67 in locked condition

Electrical data & Mechanical data

Contacts		Rated current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Cable ending & length
			A/C	D/C	AWG	mm^2			
04 pins		4A	250V	250V	22AWG	0.34	PUR / PVC	PVC	Customized cable ending and length
06 pins		4A	60V	60V	22AWG	0.34	PUR / PVC	PVC	

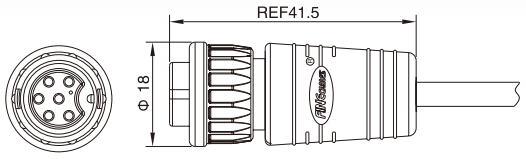
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm^2.
- Please refer to Page 13 for products' part number encoding rule.

M12 Female Molded Cable, Straight, Quick-lock Type, With Fix-cap

- Connector series: M12
- Gender: Female
- Locking type: Quick–lock
- Mounting type: Straight
- Part No.: MA12FAQ**STXXXX34

** refers to pins number
X refers to cable specification





General information

Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–20℃ ~ +80℃(flexible installation)
Connector insert:	PA + GF
Connector contacts:	Brass with gold plated
Quick–lock Fix–cap:	PA+GF
Seal:	FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP 65/IP 67 in locked condition

Electrical data & Mechanical data

Contacts		Rated current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Cable ending & length
			A/C	D/C	AWG	mm^2			
04 pins		4A	250V	250V	22AWG	0.34	PUR / PVC	PVC	Customized cable ending and length
06 pins		4A	60V	60V	22AWG	0.34	PUR / PVC	PVC	

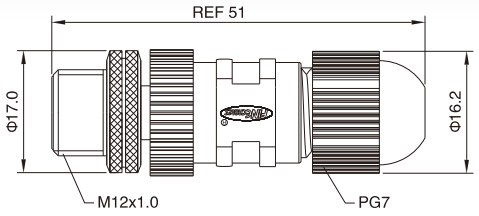
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm^2.
- Please refer to Page 13 for products' part number encoding rule.

M12 Male Field Wirable Assembly, Straight, Solder

- Connector series: M12
- Gender: Male
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MB12MA*FF**ST

* refers to coding type
** refers to pins number





General information

Standard:	IEC 61076–2–101
Ambient temperature:	–25℃ ~ + 90 ℃
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector 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:	4~5.5mm
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Wire gauge / size		Cable ending & length
	A	B	C	D			A/C	D/C	AWG	mm²	
03 pins			 (2+PE)		Solder version	4A	250V	250V	22AWG	0.34	Customized cable ending and length
04 pins			 (3+PE)		Solder version	4A	250V	250V	22AWG	0.34	
05 pins			 (4+PE)		Solder version	4A 2A(C–code)	60V	60V	22AWG 24(C–code)	0.34 0.25(C–code)	
06 pins			 (5+PE)		Solder version	2A	30V	30V	24AWG	0.25	
08 pins					Solder version	2A	30V	30V	24AWG	0.25	
12 pins					Solder version	1.5A	30V	30V	26AWG	0.14	

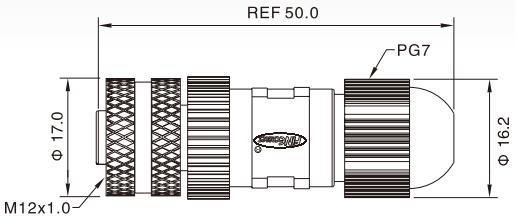
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 14 for products' part number encoding rule.

M12 Female Field Wirable Assembly, Straight, Solder

- Connector series: M12
- Gender: Female
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MB12FA*FF**ST

* refers to coding type
** refers to pins number





General information

Standard:	IEC 61076–2–101
Ambient temperature:	–25 ℃ ~ + 90 ℃
Connector insert:	TPU; PA
Connector contacts:	Brass with gold plated
Connector 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:	4~5.5mm
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Wire gauge / size		Cable ending & length
	A	B	C	D			A/C	D/C	AWG	mm²	
03 pins			 (2+PE)		Solder version	4A	250V	250V	22AWG	0.34	Customized cable ending and length
04 pins			 (3+PE)		Solder version	4A	250V	250V	22AWG	0.34	
05 pins			 (4+PE)		Solder version	4A 2A(C–code)	60V	60V	22AWG 24(C–code)	0.34 0.25(C–code)	
06 pins			 (5+PE)		Solder version	2A	30V	30V	24AWG	0.25	
08 pins					Solder version	2A	30V	30V	24AWG	0.25	
12 pins					Solder version	1.5A	30V	30V	26AWG	0.14	

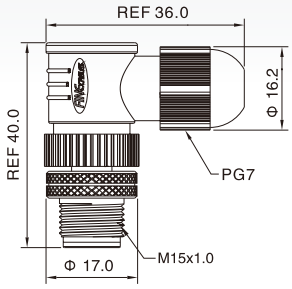
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 14 for products' part number encoding rule.

M12 Male Field Wirable Assembly, Angled, Solder

- Connector series: M12
- Gender: Male
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Right angled
- Part No.: MB12MA*FF**RA

* refers to coding type
** refers to pins number





General information

Standard:	IEC 61076–2–101
Ambient temperature:	–25 ℃ ~ + 90 ℃
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector 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:	4~5.5mm
IP rating:	IP 67 in locked condition
Assembly Instruction:	Refer to page 232

Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Wire gauge / size		Cable ending & length
	A	B	C	D			A/C	D/C	AWG	mm²	
03 pins			 (2+PE)		Solder version	4A	250V	250V	22AWG	0.34	Customized cable ending and length
04 pins			 (3+PE)		Solder version	4A	250V	250V	22AWG	0.34	
05 pins			 (4+PE)		Solder version	4A 2A(C–code)	60V	60V	22AWG 24(C–code)	0.34 0.25(C–code)	
06 pins			 (5+PE)		Solder version	2A	30V	30V	24AWG	0.25	
08 pins					Solder version	2A	30V	30V	24AWG	0.25	

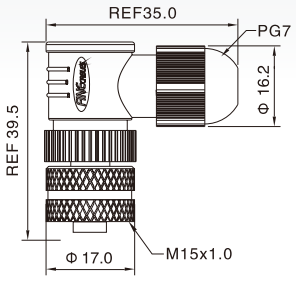
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 14 for products' part number encoding rule.

M12 Female Field Wirable Assembly, Angled, Solder

- Connector series: M12
- Gender: Female
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Right angled
- Part No.: MB12FA*FF**RA

* refers to coding type
** refers to pins number





General information

Standard:	IEC 61076–2–101
Ambient temperature:	–25℃ ~ + 90 ℃
Connector insert:	PA+GF
Connector contacts:	Brass with gold plated
Connector 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:	4~5.5mm
IP rating:	IP 67 in locked condition
Assembly Instruction:	Refer to page 233

Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Wire gauge / size		Cable ending & length
	A	B	C	D			A/C	D/C	AWG	mm²	
03 pins			 (2+PE)		Solder version	4A	250V	250V	22AWG	0.34	Customized cable ending and length
04 pins			 (3+PE)		Solder version	4A	250V	250V	22AWG	0.34	
05 pins			 (4+PE)		Solder version	4A 2A(C–code)	60V	60V	22AWG 24(C–code)	0.34 0.25(C–code)	
06 pins			 (5+PE)		Solder version	2A	30V	30V	24AWG	0.25	
08 pins					Solder version	2A	30V	30V	24AWG	0.25	

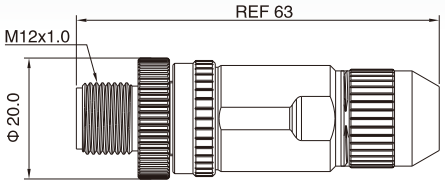
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 14 for products' part number encoding rule.

M12 Male Field Wirable Assembly, Straight, Screw joint, Shielded

- Connector series: M12
- Gender: Male
- Coding: A,B,D
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MB12MWS*FF**ST–A
  MB12MWS*FF**ST–B

* refers to coding type
** refers to pins number
– suitable cable Dia: A:4~6mm
B:6~8mm





General information

Standard:	IEC 61076–2–101
Ambient temperature:	–25℃ ~ + 90℃
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector 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: 4~6mm; B: 6~8mm
IP rating:	IP 67 in locked condition
Assembly Instruction:	Refer to page 235

Electrical data & Mechanical data

Contacts	Available Coding			Contacts termination	Rated current	Voltage		Wire gauge / size		Wire insulation	Cable ending & length
	A	B	D			A/C	D/C	AWG	mm²		
03 pins				Screw joint	4A	250V	250V	22AWG	0.34	PVC wire or customized	Customized cable ending and length
04 pins				Screw joint	4A	250V	250V	22AWG	0.34		
05 pins				Screw joint	4A	60V	60V	22AWG	0.34		
08 pins				Screw joint	2A	30V	30V	24AWG	0.25		

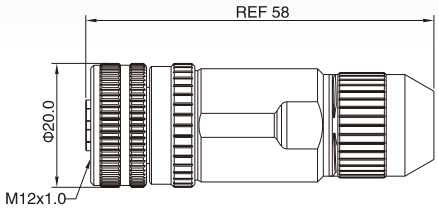
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 14 for products' part number encoding rule.

M12 Female Field Wirable Assembly, Straight, Screw joint, Shielded

- Connector series: M12
- Gender: Female
- Coding: A,B,D
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MB12FWS*FF**ST–A
  MB12FWS*FF**ST–B

* refers to coding type
** refers to pins number
– suitable cable Dia: A:4~6mm
B:6~8mm





General information

Standard:	IEC 61076–2–101
Ambient temperature:	–25℃ ~ + 90℃
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Connector body:	Znic alloy 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:	IP 67 in locked condition
Assembly Instruction:	Refer to page 235

Electrical data & Mechanical data

Contacts	Available Coding			Contacts termination	Rated current	Voltage		Wire gauge / size		Wire insulation	Cable ending & length
	A	B	D			A/C	D/C	AWG	mm²		
03 pins				Screw joint	4A	250V	250V	22AWG	0.34	PVC wire or customized	Customized cable ending and length
04 pins				Screw joint	4A	250V	250V	22AWG	0.34		
05 pins				Screw joint	4A	60V	60V	22AWG	0.34		
08 pins				Screw joint	2A	30V	30V	24AWG	0.25		

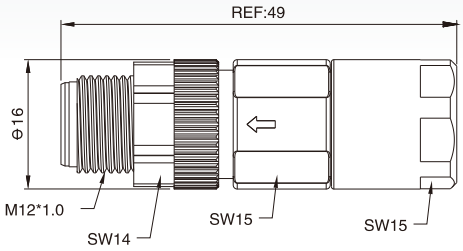
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 14 for products' part number encoding rule.

M12 Male Field Assembly, Shielded Crimp Type

- Connector series: M12
- Gender: Male
- Coding: A,B,D
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MB12MCS*FF**ST–A
  MB12MCS*FF**ST–B

* refers to coding type
** refers to pins number
– suitable cable Dia: A:4~6mm
B:6~8mm





General information

Standard:	IEC 61076–2–101
Ambient temperature:	–25℃ ~ + 90℃
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector 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: 4~6mm B：6~8mm
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts	Available Coding			Contacts termination	Rated current	Voltage		Wire gauge / size		Wire insulation	Cable ending & length
	A	B	D			A/C	D/C	AWG	mm²		
03 pins				Crimp type	4A	250V	250V	22AWG	0.34	PVC wire or customized	Customized cable ending and length
04 pins				Crimp type	4A	250V	250V	22AWG	0.34		
05 pins				Crimp type	4A	60V	60V	22AWG	0.34		

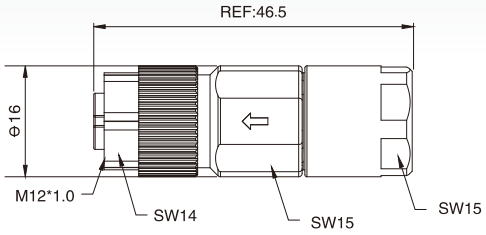
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 14 for products' part number encoding rule.

M12 Female Field Assembly, Shielded Crimp Type

- Connector series: M12
- Gender: Female
- Coding: A,B,D
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MB12FCSxFF**ST–A
  MB12FCSxFF**ST–B

* refers to coding type
** refers to pins number
– suitable cable Dia: A:4~6mm
B:6~8mm





General information

Standard:	IEC 61076–2–101
Ambient temperature:	–25℃ ~ + 90℃
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector 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: 4~6mm B：6~8mm
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

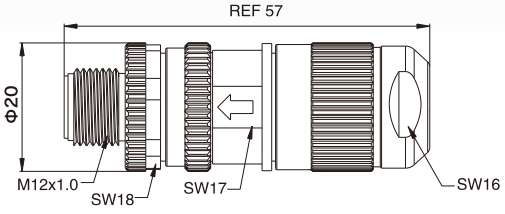
Contacts	Available Coding			Contacts termination	Rated current	Voltage		Wire gauge / size		Wire insulation	Cable ending & length
	A	B	D			A/C	D/C	AWG	mm²		
03 pins				Screw joint	4A	250V	250V	22AWG	0.34	PVC wire or customized	Customized cable ending and length
04 pins				Screw joint	4A	250V	250V	22AWG	0.34		
05 pins				Screw joint	4A	60V	60V	22AWG	0.34		

Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 14 for products' part number encoding rule.

M12 Male Field Wirable Assembly, Straight, Piercing, X-coding, Shielded

- Connector series: M12
- Gender: Male
- Coding: X
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MB12MPSXFF08ST





General information

Standard:	IEC 61076–2–109
Ambient temperature:	–25℃ ~ + 90℃
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass/Zinc with nickel plated
Connector body:	Zinc alloy with nickel plated
Seal / O–ring:	FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance :	⩽ 10mΩ
Shielding:	Available
Suitable cable Dia:	5.5~9.0mm
IP rating:	IP 67 in locked condition
Transmission characteristic:	CAT 6A /CAT 7

Electrical data & Mechanical data

Contacts	X Coding	Contacts termination	Rated current	Voltage		Wire gauge / size		Cable spec	Cable ending & length
				A/C	D/C	AWG	mm²		
08 pins		Piercing	0.5A	50V	60V	27~22	0.14~0.34	CAT 6A /CAT 7	Customized cable ending and length

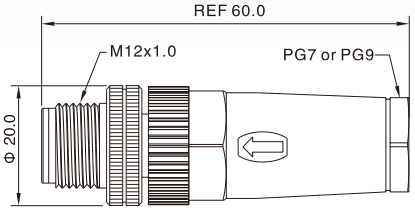
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 14 for products' part number encoding rule.

M12 Male Field Wirable Assembly, Straight, Screw joint

- Connector series: M12
- Gender: Male
- Coding: A,B,D
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MB12MW*FF**ST–X

* refers to coding type
** refers to pins number
X refers to Cable gland size: 3=PG9
4=PG7





General information

Standard:	IEC 61076–2–101
Ambient temperature:	–25 ℃ ~ + 90℃
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector nut/screw:	Aluminum Alloy anodized
Connector body:	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:	IP 67 in locked condition
Assembly Instruction:	Refer to page 234

Electrical data & Mechanical data

Contacts	Available Coding			Contacts termination	Rated current	Voltage		Wire gauge / size		Wire insulation	Cable ending & length
	A	B	D			A/C	D/C	AWG	mm²		
03 pins				Screw joint	4A	250V	250V	22AWG	0.34	PVC wire or customized	Customized cable ending and length
04 pins				Screw joint	4A	250V	250V	22AWG	0.34		
05 pins				Screw joint	4A	60V	60V	22AWG	0.34		
08 pins				Screw joint	2A	30V	30V	24AWG	0.25		

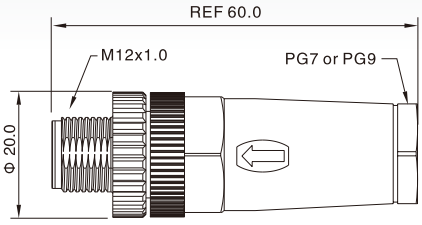
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 14 for products' part number encoding rule.

M12 Male Field Wirable Assembly, Straight, Screw joint, Plastic Screw

- Connector series: M12
- Gender: Male
- Coding: A,B,D
- Locking type: Plastic fix screw
- Mounting type: Straight
- Part No.: MB12MW*FP**ST–X

* refers to coding type
** refers to pins number
X refers to Cable gland size: 3=PG9
4=PG7





General information

Standard:	IEC 61076–2–101
Ambient temperature:	–25 ℃ ~ + 90℃
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector nut/screw:	PA+GF
Connector body:	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:	IP 67 in locked condition
Assembly Instruction:	Refer to page 234

Electrical data & Mechanical data

Contacts	Available Coding			Contacts termination	Rated current	Voltage		Wire gauge / size		Wire insulation	Cable ending & length
	A	B	D			A/C	D/C	AWG	mm²		
03 pins				Screw joint	4A	250V	250V	22AWG	0.34	PVC wire or customized	Customized cable ending and length
04 pins				Screw joint	4A	250V	250V	22AWG	0.34		
05 pins				Screw joint	4A	60V	60V	22AWG	0.34		
08 pins				Screw joint	2A	30V	30V	24AWG	0.25		

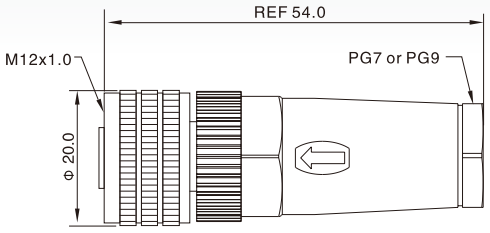
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 14 for products' part number encoding rule.

M12 Female Field Wirable Assembly, Straight, Screw joint

- Connector series: M12
- Gender: Female
- Coding: A,B,D
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MB12FW*FF**ST–X

* refers to coding type
** refers to pins number
X refers to Cable gland size: 3=PG9
4=PG7





General information

Standard:	IEC 61076–2–101
Ambient temperature:	–25 ℃ ~ + 90 ℃
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector nut/screw:	Aluminum Alloy anodized
Connector body:	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:	IP 67 in locked condition
Assembly Instruction:	Refer to page 234

Electrical data & Mechanical data

Contacts	Available Coding			Contacts termination	Rated current	Voltage		Wire gauge / size		Wire insulation	Cable ending & length
	A	B	D			A/C	D/C	AWG	mm²		
03 pins				Screw joint	4A	250V	250V	22AWG	0.34	PVC wire or customized	Customized cable ending and length
04 pins				Screw joint	4A	250V	250V	22AWG	0.34		
05 pins				Screw joint	4A	60V	60V	22AWG	0.34		
08 pins				Screw joint	2A	30V	30V	24AWG	0.25		

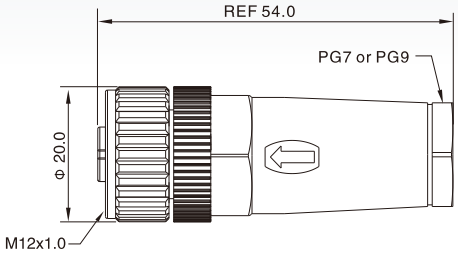
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 14 for products' part number encoding rule.

M12 Female Field Wirable Assembly, Straight, Screw joint, Plastic Nut

- Connector series: M12
- Gender: Female
- Coding: A,B,D
- Locking type: Plastic fix screw
- Mounting type: Straight
- Part No.: MB12FW*FP**ST–X

* refers to coding type
** refers to pins number
X refers to Cable gland size: 3=PG9
4=PG7





General information

Standard:	IEC 61076–2–101
Ambient temperature:	–25 ℃ ~ + 90 ℃
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector nut/screw:	PA+GF
Connector body:	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:	IP 67 in locked condition
Assembly Instruction:	Refer to page 234

Electrical data & Mechanical data

Contacts	Available Coding			Contacts termination	Rated current	Voltage		Wire gauge / size		Wire insulation	Cable ending & length
	A	B	D			A/C	D/C	AWG	mm²		
03 pins				Screw joint	4A	250V	250V	22AWG	0.34	PVC wire or customized	Customized cable ending and length
04 pins				Screw joint	4A	250V	250V	22AWG	0.34		
05 pins				Screw joint	4A	60V	60V	22AWG	0.34		
08 pins				Screw joint	2A	30V	30V	24AWG	0.25		

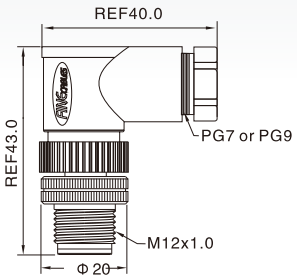
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 14 for products' part number encoding rule.

M12 Male Field Wirable Assembly, Angled, Screw joint

- Connector series: M12
- Gender: Male
- Coding: A,B,D
- Locking type: Fix screw
- Mounting type: Right angled
- Part No.: MB12MW*FF**RA–X

* refers to coding type
** refers to pins number
X refers to Cable gland size: 3=PG9
4=PG7





General information

Standard:	IEC 61076–2–101
Ambient temperature:	–25 ℃ ~ + 90 ℃
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector nut/screw:	Aluminum Alloy anodized
Connector body:	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:	IP 67 in locked condition
Assembly Instruction:	Refer to page 234

Electrical data & Mechanical data

Contacts	Available Coding			Contacts termination	Rated current	Voltage		Wire gauge / size		Wire insulation	Cable ending & length
	A	B	D			A/C	D/C	AWG	mm²		
03 pins				Screw joint	4A	250V	250V	22AWG	0.34	PVC wire or customized	Customized cable ending and length
04 pins				Screw joint	4A	250V	250V	22AWG	0.34		
05 pins				Screw joint	4A	60V	60V	22AWG	0.34		
08 pins				Screw joint	2A	30V	30V	24AWG	0.25		

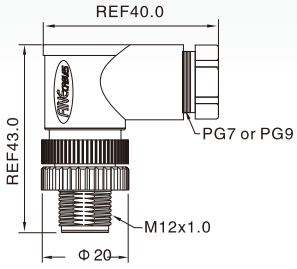
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 14 for products' part number encoding rule.

M12 Male Field Wirable Assembly, Angled, Screw joint, Plastic Screw

- Connector series: M12
- Gender: Male
- Coding: A,B,D
- Locking type: Plastic fix screw
- Mounting type: Right angled
- Part No.: MB12MW*FP**RA–X

* refers to coding type
** refers to pins number
X refers to Cable gland size: 3=PG9
4=PG7





General information

Standard:	IEC 61076–2–101
Ambient temperature:	–25 ℃ ~ + 90 ℃
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector nut/screw:	PA+GF
Connector body:	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:	IP 67 in locked condition
Assembly Instruction:	Refer to page 234

Electrical data & Mechanical data

Contacts	Available Coding			Contacts termination	Rated current	Voltage		Wire gauge / size		Wire insulation	Cable ending & length
	A	B	D			A/C	D/C	AWG	mm²		
03 pins				Screw joint	4A	250V	250V	22AWG	0.34	PVC wire or customized	Customized cable ending and length
04 pins				Screw joint	4A	250V	250V	22AWG	0.34		
05 pins				Screw joint	4A	60V	60V	22AWG	0.34		
08 pins				Screw joint	2A	30V	30V	24AWG	0.25		

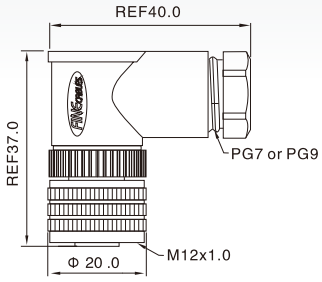
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 14 for products' part number encoding rule.

M12 Female Field Wirable Assembly, Angled, Screw joint

- Connector series: M12
- Gender: Female
- Coding: A,B,D
- Locking type: Fix screw
- Mounting type: Right angled
- Part No.: MB12FW*FF**RA–X

* refers to coding type
** refers to pins number
X refers to Cable gland size: 3=PG9
4=PG7





General information

Standard:	IEC 61076–2–101
Ambient temperature:	–25 ℃ ~ + 90 ℃
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector nut/screw:	Aluminum Alloy anodized
Connector body:	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:	IP 67 in locked condition
Assembly Instruction:	Refer to page 234

Electrical data & Mechanical data

Contacts	Available Coding			Contacts termination	Rated current	Voltage		Wire gauge / size		Wire insulation	Cable ending & length
	A	B	D			A/C	D/C	AWG	mm²		
03 pins				Screw joint	4A	250V	250V	22AWG	0.34	PVC wire or customized	Customized cable ending and length
04 pins				Screw joint	4A	250V	250V	22AWG	0.34		
05 pins				Screw joint	4A	60V	60V	22AWG	0.34		
08 pins				Screw joint	2A	30V	30V	24AWG	0.25		

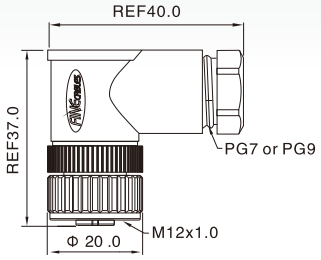
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 14 for products' part number encoding rule.

M12 Female Field Wirable Assembly, Angled, Screw joint, Plastic Nut

- Connector series: M12
- Gender: Female
- Coding: A,B,D
- Locking type: Plastic fix screw
- Mounting type: Right angled
- Part No.: MB12FW*FP**RA–X

* refers to coding type
** refers to pins number
X refers to Cable gland size: 3=PG9
4=PG7





General information

Standard:	IEC 61076–2–101
Ambient temperature:	–25 ℃ ~ + 90 ℃
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector nut/screw:	PA+GF
Connector body:	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:	IP 67 in locked condition
Assembly Instruction:	Refer to page 234

Electrical data & Mechanical data

Contacts	Available Coding			Contacts termination	Rated current	Voltage		Wire gauge / size		Wire insulation	Cable ending & length
	A	B	D			A/C	D/C	AWG	mm²		
03 pins				Screw joint	4A	250V	250V	22AWG	0.34	PVC wire or customized	Customized cable ending and length
04 pins				Screw joint	4A	250V	250V	22AWG	0.34		
05 pins				Screw joint	4A	60V	60V	22AWG	0.34		
08 pins				Screw joint	2A	30V	30V	24AWG	0.25		

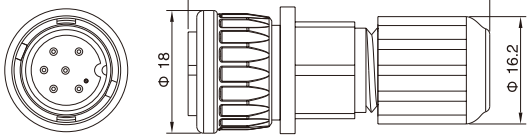
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 14 for products' part number encoding rule.

M12 Male Field Wirable Assembly, Straight, Quick-lock Type, With Fix-cap

- Connector series: M12
- Gender: Male
- Locking type: Quick–lock
- Mounting type: Plastic mounting
- Part No.: MB12MAAFQ**ST

** refers to pins number





General information

Ambient temperature:	–25℃ ~ +90℃
Connector insert/body:	PA + GF
Connector contacts:	Brass with gold plated
Quick–lock Fix–cap:	PA+GF
O–ring:	FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Unavailable
Suitable cable Dia:	3.0~6.0mm
IP rating:	IP 65/IP 67 in locked condition

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Cable ending & length
				A/C	D/C	AWG	mm²			
04 pins		Solder version	4A	250V	250V	22AWG	0.34	PUR / PVC	PVC	Customized cable ending and length
06 pins		Solder version	4A	60V	60V	22AWG	0.34	PUR / PVC	PVC	

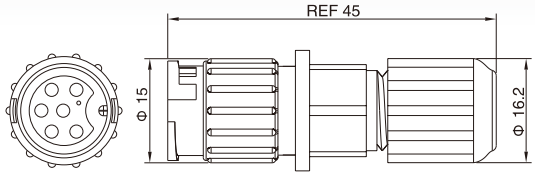
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 14 for products' part number encoding rule.

M12 Female Field Wirable Assembly, Straight, Quick-lock Type

- Connector series: M12
- Gender: Female
- Locking type: Quick–lock
- Mounting type: Plastic mounting
- Part No.: MB12FAAFQ**ST

** refers to pins number





General information

Ambient temperature:	–25 ℃ ~ + 90 ℃
Connector insert/body:	PA + GF
Connector contacts:	Brass with gold plated
O–ring:	FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Unavailable
Suitable cable Dia:	3.0~6.0mm
IP rating:	IP 65/IP 67 in locked condition

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Cable ending & length
				A/C	D/C	AWG	mm²			
04 pins		Solder version	4A	250V	250V	22AWG	0.34	PUR / PVC	PVC	Customized cable ending and length
06 pins		Solder version	4A	60V	60V	22AWG	0.34	PUR / PVC	PVC	

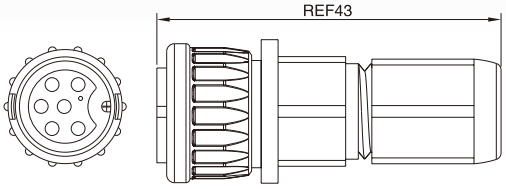
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 14 for products' part number encoding rule.

M12 Female Field Wirable Assembly, Straight, Quick-lock Type, With Fix-cap

- Connector series: M12
- Gender: Female
- Locking type: Quick–lock
- Mounting type: Plastic mounting
- Part No.: MB12FARAFQ**ST

** refers to pins number





General information

Ambient temperature:	–25 ℃ ~ + 90 ℃
Connector insert/body:	PA + GF
Connector contacts:	Brass with gold plated
Quick–lock Fix–cap:	PA+GF
O–ring:	FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Unavailable
Suitable cable Dia:	3.0~6.0mm
IP rating:	IP 65/IP 67 in locked condition

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Cable ending & length
				A/C	D/C	AWG	mm^2			
04 pins		Solder version	4A	250V	250V	22AWG	0.34	PUR / PVC	PVC	Customized cable ending and length
06 pins		Solder version	4A	60V	60V	22AWG	0.34	PUR / PVC	PVC	

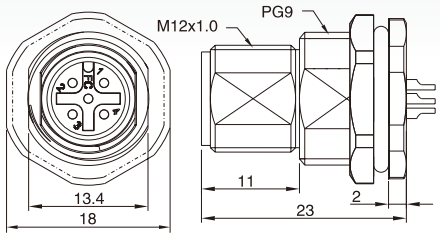
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm^2.
- Please refer to Page 14 for products' part number encoding rule.

M12 Male Panel Mount, Die-cast Screw, Solder, Front fastened

- Connector series: M12
- Gender: Male
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12MS*FHD**ST–3

* refers to coding type
** refers to pins number





General information

Standard:	IEC 61076–2–101
Ambient temperature:	–25℃~ + 90℃
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector screw/nut:	Zinc alloy with nickel plated
Seal / O–ring:	Epoxy resin / FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP67 in locked condition
Panel cut–out:	Refer to page 237

Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Wire gauge / size		Cable ending & length
	A	B	C	D			A/C	D/C	AWG	mm²	
03 pins			 (2+PE)		Solder version	4A	250V	250V	22AWG	0.34	Customized cable ending and length
04 pins			 (3+PE)		Solder version	4A	250V	250V	22AWG	0.34	
05 pins			 (4+PE)		Solder version	4A 2A(C–code)	60V	60V	22AWG 24(C–code)	0.34 0.25(C–code)	
06 pins			 (5+PE)		Solder version	2A	30V	30V	24AWG	0.25	
08 pins					Solder version	2A	30V	30V	24AWG	0.25	

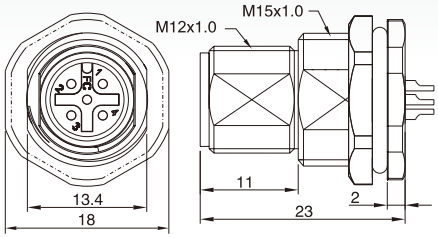
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 14 for products' part number encoding rule.

M12 Male Panel Mount, Plastic Screw/Nut, Solder, Front fastened

- Connector series: M12
- Gender: Male
- Coding: A,B,C,D
- Locking type: Plastic fix screw
- Mounting type: Front fastened
- Part No.: MB12MS*FP**ST–1

* refers to coding type
** refers to pins number
X refers to Chasis–side thread size





General information

Standard:	IEC 61076–2–101
Ambient temperature:	–25℃~ + 90℃
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector screw/nut:	PA+GF
Seal / O–ring:	Epoxy resin / FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP67 in locked condition
Panel cut–out:	Refer to page 237

Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Wire gauge / size		Cable ending & length
	A	B	C	D			A/C	D/C	AWG	mm²	
03 pins			 (2+PE)		Solder version	4A	250V	250V	22AWG	0.34	Customized cable ending and length
04 pins			 (3+PE)		Solder version	4A	250V	250V	22AWG	0.34	
05 pins			 (4+PE)		Solder version	4A 2A(C–code)	60V	60V	22AWG 24(C–code)	0.34 0.25(C–code)	
06 pins			 (5+PE)		Solder version	2A	30V	30V	24AWG	0.25	
08 pins					Solder version	2A	30V	30V	24AWG	0.25	

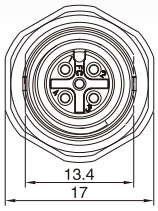
Remarks

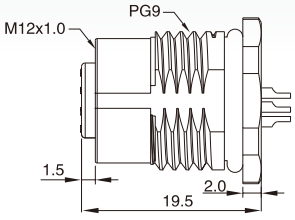
- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 14 for products' part number encoding rule.

M12 Female Panel Mount, Die-cast Screw, Solder, Front fastened

- Connector series: M12
- Gender: Female
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12FS*FHD**ST-3

* refers to coding type
** refers to pins number







General information

Standard:	IEC 61076-2-101
Ambient temperature:	-25℃~ + 90℃
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector screw/nut:	Zinc alloy with nickel plated
Seal / O-ring:	Epoxy resin / FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP67 in locked condition
Panel cut-out:	Refer to page 237

Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Wire gauge / size		Cable ending & length
	A	B	C	D			A/C	D/C	AWG	mm²	
03 pins			 (2+PE)		Solder version	4A	250V	250V	22AWG	0.34	Customized cable ending and length
04 pins			 (3+PE)		Solder version	4A	250V	250V	22AWG	0.34	
05 pins			 (4+PE)		Solder version	4A 2A(C-code)	60V	60V	22AWG 24(C-code)	0.34 0.25(C-code)	
06 pins			 (5+PE)		Solder version	2A	30V	30V	24AWG	0.25	
08 pins					Solder version	2A	30V	30V	24AWG	0.25	

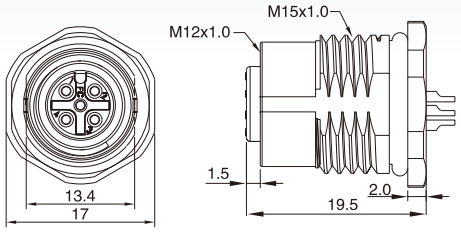
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross-section mm².
- Please refer to Page 14 for products' part number encoding rule.

M12 Female Panel Mount, Plastic Screw/Nut, Solder, Front fastened

- Connector series: M12
- Gender: Female
- Coding: A,B,C,D
- Locking type: Plastic fix screw
- Mounting type: Front fastened
- Part No.: MB12FS*FP**ST–1

* refers to coding type
** refers to pins number
X refers to Chasis–side thread size





General information

Standard:	IEC 61076–2–101
Ambient temperature:	–25℃~ + 90℃
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector screw/nut:	PA+GF
Seal / O–ring:	Epoxy resin / FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP67 in locked condition
Panel cut–out:	Refer to page 237

Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Wire gauge / size		Cable ending & length
	A	B	C	D			A/C	D/C	AWG	mm²	
03 pins			 (2+PE)		Solder version	4A	250V	250V	22AWG	0.34	Customized cable ending and length
04 pins			 (3+PE)		Solder version	4A	250V	250V	22AWG	0.34	
05 pins			 (4+PE)		Solder version	4A 2A(C–code)	60V	60V	22AWG 24(C–code)	0.34 0.25(C–code)	
06 pins			 (5+PE)		Solder version	2A	30V	30V	24AWG	0.25	
08 pins					Solder version	2A	30V	30V	24AWG	0.25	

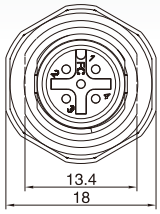
Remarks

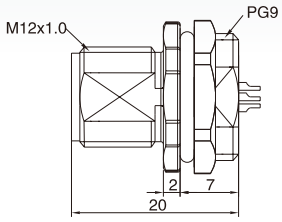
- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 14 for products' part number encoding rule.

M12 Male Panel Mount, Die-cast Screw, Solder, Rear fastened

- Connector series: M12
- Gender: Male
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Rear fastened
- Part No.: MB12MS*RHD**ST–3

* refers to coding type
** refers to pins number







General information

Standard:	IEC 61076–2–101
Ambient temperature:	–25℃~ + 90℃
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector screw/nut:	Zinc alloy with nickel plated
Seal / O–ring:	Epoxy resin / FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP67 in locked condition
Panel cut–out:	Refer to page 237

Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Wire gauge / size		Cable ending & length
	A	B	C	D			A/C	D/C	AWG	mm²	
03 pins			 (2+PE)		Solder version	4A	250V	250V	22AWG	0.34	Customized cable ending and length
04 pins			 (3+PE)		Solder version	4A	250V	250V	22AWG	0.34	
05 pins			 (4+PE)		Solder version	4A 2A(C–code)	60V	60V	22AWG 24(C–code)	0.34 0.25(C–code)	
06 pins			 (5+PE)		Solder version	2A	30V	30V	24AWG	0.25	
08 pins					Solder version	2A	30V	30V	24AWG	0.25	

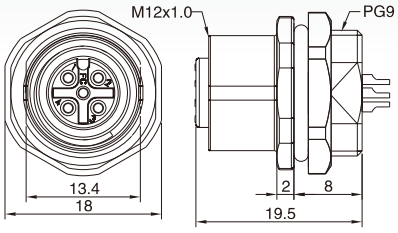
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 14 for products' part number encoding rule.

M12 Female Panel Mount, Die-cast Screw, Solder, Rear fastened

- Connector series: M12
- Gender: Female
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Rear fastened
- Part No.: MB12FS*RHD**ST–3

* refers to coding type
** refers to pins number





General information

Standard:	IEC 61076–2–101
Ambient temperature:	–25℃~ + 90℃
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector screw/nut:	Zinc alloy with nickel plated
Seal / O–ring:	Epoxy resin / FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP67 in locked condition
Panel cut–out:	Refer to page 237

Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Wire gauge / size		Cable ending & length
	A	B	C	D			A/C	D/C	AWG	mm²	
03 pins			 (2+PE)		Solder version	4A	250V	250V	22AWG	0.34	Customized cable ending and length
04 pins			 (3+PE)		Solder version	4A	250V	250V	22AWG	0.34	
05 pins			 (4+PE)		Solder version	4A 2A(C–code)	60V	60V	22AWG 24(C–code)	0.34 0.25(C–code)	
06 pins			 (5+PE)		Solder version	2A	30V	30V	24AWG	0.25	
08 pins					Solder version	2A	30V	30V	24AWG	0.25	

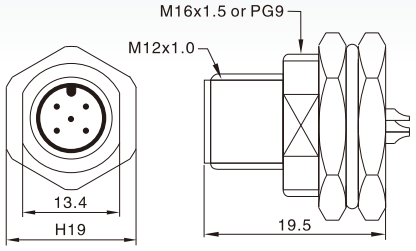
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 14 for products' part number encoding rule.

M12 Male Panel Mount, Solder, Front fastened

- Connector series: M12
- Gender: Male
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12MS*FF**ST–X

* refers to coding type
** refers to pins number
X refers to Chasis–side thread size





General information

Standard:	IEC 61076–2–101
Ambient temperature:	–25 ℃ ~ + 90 ℃
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector 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
Panel cut–out:	Refer to page 237

Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Wire gauge / size		Cable ending & length
	A	B	C	D			A/C	D/C	AWG	mm²	
03 pins			 (2+PE)		Solder version	4A	250V	250V	22AWG	0.34	
04 pins			 (3+PE)		Solder version	4A	250V	250V	22AWG	0.34	
05 pins			 (4+PE)		Solder version	4A 2A(C–code)	60V	60V	22AWG 24(C–code)	0.34 0.25(C–code)	
06 pins			 (5+PE)		Solder version	2A	30V	30V	24AWG	0.25	Customized cable ending and length
08 pins					Solder version	2A	30V	30V	24AWG	0.25	
12 pins					Solder version	1.5A	30V	30V	26AWG	0.14	
17 pins					Solder version	1.5A	30V	30V	26AWG	0.14	

Remarks

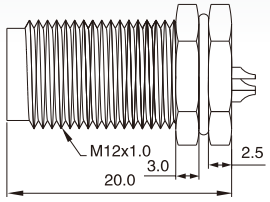
- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 14 for products' part number encoding rule.

M12 Male Panel Mount, Plastic Screw/Nut, Solder, Front fastened

- Connector series: M12
- Gender: Male
- Coding: A
- Locking type: Plastic fix screw
- Mounting type: Front fastened
- Part No.: MB12MSAFP**ST–0

** refers to pins number







General information

Standard:	IEC 61076–2–101
Ambient temperature:	–25 ℃~ + 90℃
Connector body:	PA + GF
Connector contacts:	Brass with gold plated
Connector nut/screw:	PA + GF
Seal / O–ring:	Epoxy resin/FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP67 in locked condition
Panel cut–out:	Refer to page 237

Electrical data & Mechanical data

Contacts	A–Coding	Contacts termination	Rated current	Voltage	
				A/C	D/C
04 pins		Solder version	4A	250V	250V
05 pins		Solder version	4A	60V	60V
08 pins		Solder version	2A	30V	30V

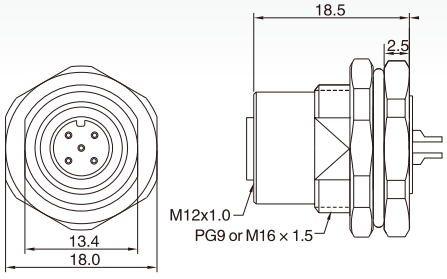
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm^2.
- Please refer to Page 14 for products' part number encoding rule.

M12 Female Panel Mount, Solder, Front fastened

- Connector series: M12
- Gender: Female
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12FS*FF**ST–X

* refers to coding type
** refers to pins number
X refers to Chasis–side thread size





General information

Standard:	IEC 61076–2–101
Ambient temperature:	–25℃ ~ + 90℃
Connector insert:	PA+GF
Connector contacts:	Brass with gold plated
Connector 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
Panel cut–out:	Refer to page 237

Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Wire gauge / size		Cable ending & length
	A	B	C	D			A/C	D/C	AWG	mm²	
03 pins			 (2+PE)		Solder version	4A	250V	250V	22AWG	0.34	Customized cable ending and length
04 pins			 (3+PE)		Solder version	4A	250V	250V	22AWG	0.34	
05 pins			 (4+PE)		Solder version	4A 2A(C–code)	60V	60V	22AWG 24(C–code)	0.34 0.25(C–code)	
06 pins			 (5+PE)		Solder version	2A	30V	30V	24AWG	0.25	
08 pins					Solder version	2A	30V	30V	24AWG	0.25	
12 pins					Solder version	1.5A	30V	30V	26AWG	0.14	

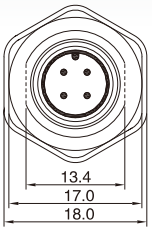
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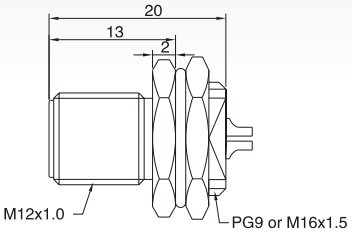
- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 14 for products' part number encoding rule.

M12 Male Panel Mount, Solder, Rear fastened

- Connector series: M12
- Gender: Male
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Rear fastened
- Part No.: MB12MS*RF**ST–X

* refers to coding type
** refers to pins number
X refers to Chasis–side thread size







General information

Standard:	IEC 61076–2–101
Ambient temperature:	–25 ℃ ~ + 90℃
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector 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
Panel cut–out:	Refer to page 237

Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Wire gauge / size		Cable ending & length
	A	B	C	D			A/C	D/C	AWG	mm²	
03 pins			 (2+PE)		Solder version	4A	250V	250V	22AWG	0.34	Customized cable ending and length
04 pins			 (3+PE)		Solder version	4A	250V	250V	22AWG	0.34	
05 pins			 (4+PE)		Solder version	4A 2A(C–code)	60V	60V	22AWG 24(C–code)	0.34 0.25(C–code)	
06 pins			 (5+PE)		Solder version	2A	30V	30V	24AWG	0.25	
08 pins					Solder version	2A	30V	30V	24AWG	0.25	
12 pins					Solder version	1.5A	30V	30V	26AWG	0.14	

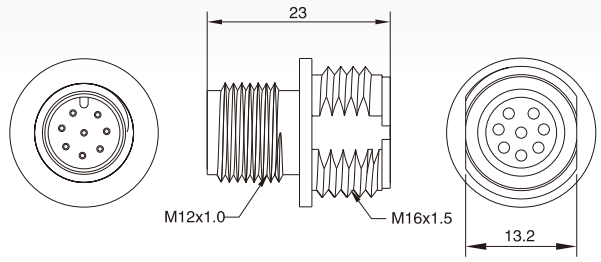
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 14 for products' part number encoding rule.

M12 Male Panel Mount, Plastic Screw, Solder, Rear fastened

- Connector series: M12
- Gender: Male
- Coding: A
- Locking type: Plastic fix screw
- Mounting type: Rear fastened
- Part No.: MB12MSARP**ST–2

** refers to pins number





General information

Standard:	IEC 61076–2–101
Ambient temperature:	–25 ℃~ + 90℃
Connector body:	PA + GF
Connector contacts:	Brass with gold plated
Connector nut/screw:	PA+GF

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP67 in locked condition
Panel cut–out:	Refer to page 237

Electrical data & Mechanical data

Contacts	A–Coding	Contacts termination	Rated current	Voltage		Wire gauge / size		Wire insulation	Cable ending & length
				A/C	D/C	AWG	mm²		
04 pins		Solder version	4A	250V	250V	22AWG	0.34	PVC wire or customized	Customized cable ending and length
05 pins		Solder version	4A	60V	60V	22AWG	0.34		
08 pins		Solder version	2A	30V	30V	24AWG	0.25		

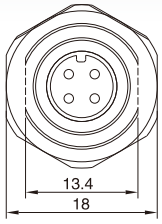
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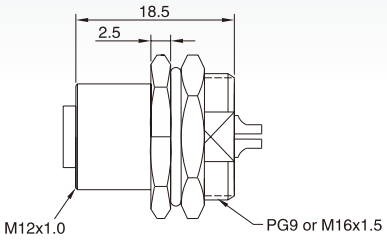
- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 14 for products' part number encoding rule.

M12 Female Panel Mount, Solder, Rear fastened

- Connector series: M12
- Gender: Female
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Rear fastened
- Part No.: MB12FS*RF**ST–X

* refers to coding type
** refers to pins number
X refers to Chasis–side thread size







General information

Standard:	IEC 61076–2–101
Ambient temperature:	–25 ℃ ~ + 90 ℃
Connector insert:	PA+GF
Connector contacts:	Brass with gold plated
Connector 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
Panel cut–out:	Refer to page 237

Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Wire gauge / size		Cable ending & length
	A	B	C	D			A/C	D/C	AWG	mm²	
03 pins			 (2+PE)		Solder version	4A	250V	250V	22AWG	0.34	Customized cable ending and length
04 pins			 (3+PE)		Solder version	4A	250V	250V	22AWG	0.34	
05 pins			 (4+PE)		Solder version	4A 2A(C–code)	60V	60V	22AWG 24(C–code)	0.34 0.25(C–code)	
06 pins			 (5+PE)		Solder version	2A	30V	30V	24AWG	0.25	
08 pins					Solder version	2A	30V	30V	24AWG	0.25	
12 pins					Solder version	1.5A	30V	30V	26AWG	0.14	
17 pins					Solder version	1.5A	30V	30V	26AWG	0.14	

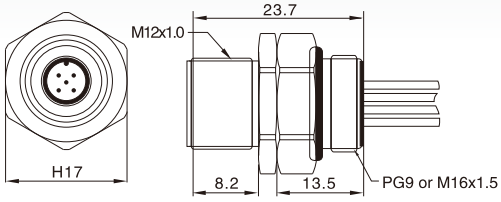
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 14 for products' part number encoding rule.

M12 Male Panel Mount, Solder, Rear fastened, Adjustable Nut

- Connector series: M12
- Gender: Male
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Rear fastened
- Part No.: MB12MS*RF**ST–X(Adjustable)

* refers to coding type
** refers to pins number
X refers to Chasis–side thread size





General information

Standard:	IEC 61076–2–101
Ambient temperature:	–25℃ ~ + 90℃
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector 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
Panel cut–out:	Refer to page 237

Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Wire gauge / size		Cable ending & length
	A	B	C	D			A/C	D/C	AWG	mm²	
03 pins			 (2+PE)		Solder version	4A	250V	250V	22AWG	0.34	
04 pins			 (3+PE)		Solder version	4A	250V	250V	22AWG	0.34	
05 pins			 (4+PE)		Solder version	4A 2A(C–code)	60V	60V	22AWG 24(C–code)	0.34 0.25(C–code)	
06 pins			 (5+PE)		Solder version	2A	30V	30V	24AWG	0.25	Customized cable ending and length
08 pins					Solder version	2A	30V	30V	24AWG	0.25	
12 pins					Solder version	1.5A	30V	30V	26AWG	0.14	
17 pins					Solder version	1.5A	30V	30V	26AWG	0.14	

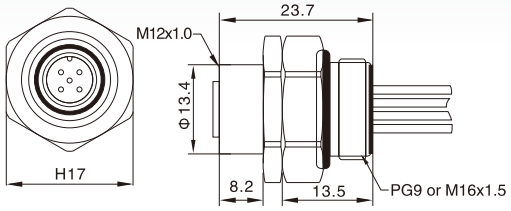
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 14 for products' part number encoding rule.

M12 Female Panel Mount, Solder, Rear fastened, Adjustable Nut

- Connector series: M12
- Gender: Female
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Rear fastened
- Part No.: MB12FS*RF**ST–X(Adjustable)

* refers to coding type
** refers to pins number
X refers to Chasis–side thread size





General information

Standard:	IEC 61076–2–101
Ambient temperature:	–25℃ ~ + 90 ℃
Connector insert:	PA+GF
Connector contacts:	Brass with gold plated
Connector 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
Panel cut–out:	Refer to page 237

Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Wire gauge / size		Cable ending & length
	A	B	C	D			A/C	D/C	AWG	mm²	
03 pins			 (2+PE)		Solder version	4A	250V	250V	22AWG	0.34	Customized cable ending and length
04 pins			 (3+PE)		Solder version	4A	250V	250V	22AWG	0.34	
05 pins			 (4+PE)		Solder version	4A 2A(C–code)	60V	60V	22AWG 24(C–code)	0.34 0.25(C–code)	
06 pins			 (5+PE)		Solder version	2A	30V	30V	24AWG	0.25	
08 pins					Solder version	2A	30V	30V	24AWG	0.25	
12 pins					Solder version	1.5A	30V	30V	26AWG	0.14	
17 pins					Solder version	1.5A	30V	30V	26AWG	0.14	

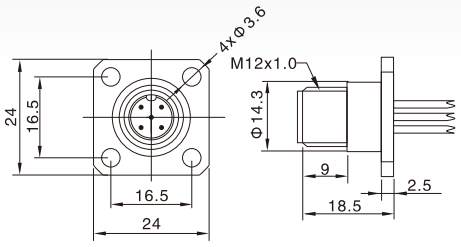
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 14 for products' part number encoding rule.

M12 Male Panel Mount, Solder, with Flange

- Connector series: M12
- Gender: Male
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Flange
- Part No.: MB12MS*FLF**ST

* refers to coding type
** refers to pins number





General information

Standard:	IEC 61076–2–101
Ambient temperature:	–20℃~ + 80℃
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector screw/nut:	Brass with nickel plated
Seal / O–ring:	Epoxy resin/FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP67 in locked condition

Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Wire gauge / size		Cable ending & length
	A	B	C	D			A/C	D/C	AWG	mm²	
03 pins			 (2+PE)		Solder version	4A	250V	250V	22AWG	0.34	Customized cable ending and length
04 pins			 (3+PE)		Solder version	4A	250V	250V	22AWG	0.34	
05 pins			 (4+PE)		Solder version	4A 2A(C–code)	60V	60V	22AWG 24(C–code)	0.34 0.25(C–code)	
06 pins			 (5+PE)		Solder version	2A	30V	30V	24AWG	0.25	
08 pins					Solder version	2A	30V	30V	24AWG	0.25	
12 pins					Solder version	1.5A	30V	30V	26AWG	0.14	

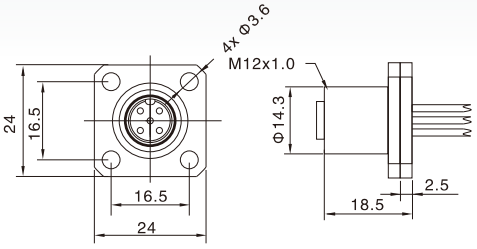
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 14 for products' part number encoding rule.

M12 Female Panel Mount, Solder, with Flange

- Connector series: M12
- Gender: Female
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Flange
- Part No.: MB12FS*FLF**ST

* refers to coding type
** refers to pins number





General information

Standard:	IEC 61076–2–101
Ambient temperature:	–20℃ ~ + 80 ℃
Connector insert:	PA+GF
Connector contacts:	Brass with gold plated
Connector screw/nut:	Brass with nickel plated
Seal / O–ring:	Epoxy resin/FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage		Wire gauge / size		Cable ending & length
	A	B	C	D			A/C	D/C	AWG	mm²	
03 pins			 (2+PE)		Solder version	4A	250V	250V	22AWG	0.34	Customized cable ending and length
04 pins			 (3+PE)		Solder version	4A	250V	250V	22AWG	0.34	
05 pins			 (4+PE)		Solder version	4A 2A(C–code)	60V	60V	22AWG 24(C–code)	0.34 0.25(C–code)	
06 pins			 (5+PE)		Solder version	2A	30V	30V	24AWG	0.25	
08 pins					Solder version	2A	30V	30V	24AWG	0.25	
12 pins					Solder version	1.5A	30V	30V	26AWG	0.14	

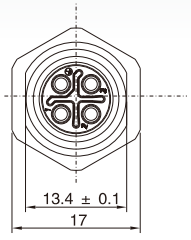
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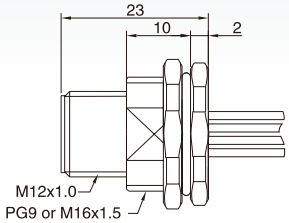
- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 14 for products' part number encoding rule.

M12 Male Panel Mount, Crimp, Front fastened, S-coding

- Connector series: M12
- Gender: Male
- Coding: S
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12MCSFF**ST–XXX

** refers to pins number
X refers to wire specification







General information

Ambient temperature:	–25℃~ + 80℃
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector screw/nut:	Brass with nickel plated
Seal / O–ring:	Epoxy resin / FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP67 in locked condition
Panel cut–out:	Refer to page 237

Electrical data & Mechanical data

Contacts	S–Coding	Contacts termination	Rated current	Rated voltage	Wire gauge / size		Wire insulation	Cable ending & length
					AWG	mm^2		
04 pins	 (3+PE)	Crimp version	12A(40℃)	630V	16AWG	1.5	PVC wire or customized	Customized cable ending and length

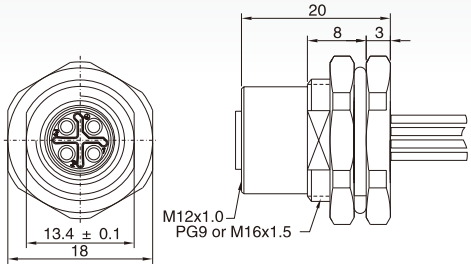
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm^2.
- Please refer to Page 14 for products' part number encoding rule.

M12 Female Panel Mount, Crimp, Front fastened, S-coding

- Connector series: M12
- Gender: Female
- Coding: S
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12FCSFF**ST–XXX

** refers to pins number
X refers to wire specification





General information

Ambient temperature:	–25℃~ + 80℃
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector screw/nut:	Brass with nickel plated
Seal / O–ring:	Epoxy resin / FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP67 in locked condition
Panel cut–out:	Refer to page 237

Electrical data & Mechanical data

Contacts	S–Coding	Contacts termination	Rated current	Rated voltage	Wire gauge / size		Wire insulation	Cable ending & length
					AWG	mm^2		
04 pins	 (3+PE)	Crimp version	12A(40℃)	630V	16AWG	1.5	PVC wire or customized	Customized cable ending and length

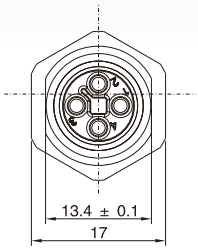
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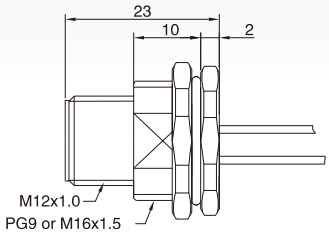
- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm^2.
- Please refer to Page 14 for products' part number encoding rule.

M12 Male Panel Mount, Crimp, Front fastened, T-coding

- Connector series: M12
- Gender: Male
- Coding: T
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12MCTFF**ST–XXX

** refers to pins number
X refers to wire specification







General information

Ambient temperature:	–25℃~ + 80℃
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector screw/nut:	Brass with nickel plated
Seal / O–ring:	Epoxy resin / FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP67 in locked condition
Panel cut–out:	Refer to page 237

Electrical data & Mechanical data

Contacts	T–Coding	Contacts termination	Rated current	Rated voltage	Wire gauge / size		Wire insulation	Cable ending & length
					AWG	mm^2		
04 pins		Crimp version	12A(40℃)	60V	16AWG	1.5	PVC wire or customized	Customized cable ending and length

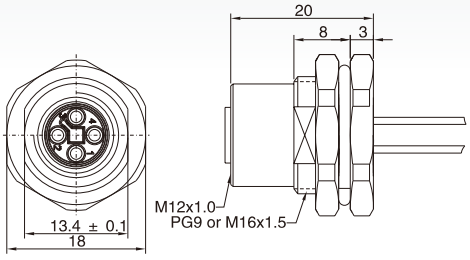
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm^2.
- Please refer to Page 14 for products' part number encoding rule.

M12 Female Panel Mount, Crimp, Front fastened, T-coding

- Connector series: M12
- Gender: Female
- Coding: T
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12FCTFF**ST–XXX

** refers to pins number
X refers to wire specification





General information

Ambient temperature:	–25℃~ + 80℃
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector screw/nut:	Brass with nickel plated
Seal / O–ring:	Epoxy resin / FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP67 in locked condition
Panel cut–out:	Refer to page 237

Electrical data & Mechanical data

Contacts	T–Coding	Contacts termination	Rated current	Rated voltage	Wire gauge / size		Wire insulation	Cable ending & length
					AWG	mm^2		
04 pins		Crimp version	12A(40℃)	60V	16AWG	1.5	PVC wire or customized	Customized cable ending and length

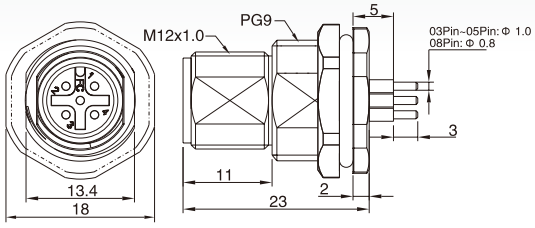
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm^2.
- Please refer to Page 14 for products' part number encoding rule.

M12 Male Panel Mount, Die-cast Screw, PCB Type, Front fastened

- Connector series: M12
- Gender: Male
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12MB*FHD**ST–3

* refers to coding type
** refers to pins number





General information

Standard:	IEC 61076–2–101
Ambient temperature:	–25℃~ + 90℃
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector screw/nut:	Zinc alloy with nickel plated
Seal / O–ring:	Epoxy resin / FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP67 in locked condition
Panel cut–out:	Refer to page 237
PCB layout:	Refer to page 236

Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage	
	A	B	C	D			A/C	D/C
03 pins			 (2+PE)		PCB version	4A	250V	250V
04 pins			 (3+PE)		PCB version	4A	250V	250V
05 pins			 (4+PE)		PCB version	4A 2A(C–code)	60V	60V
06 pins			 (5+PE)		PCB version	2A	30V	30V
08 pins					PCB version	2A	30V	30V

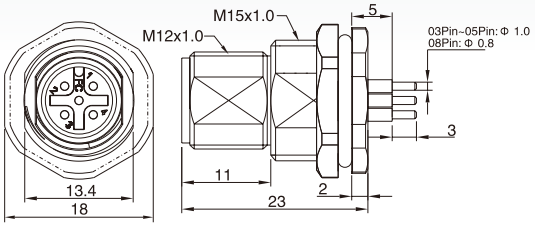
Remarks

- Please refer to Page 14 for products' part number encoding rule.
-

M12 Male Panel Mount, Plastic Screw/Nut, PCB Type, Front fastened

- Connector series: M12
- Gender: Male
- Coding: A,B,C,D
- Locking type: Plastic fix screw
- Mounting type: Front fastened
- Part No.: MB12MB*FP**ST–1

* refers to coding type
** refers to pins number
X refers to Chasis–side thread size





General information

Standard:	IEC 61076–2–101
Ambient temperature:	–25℃~ + 90℃
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector screw/nut:	PA+GF
Seal / O–ring:	Epoxy resin / FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP67 in locked condition
Panel cut–out:	Refer to page 237
PCB layout:	Refer to page 236

Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage	
	A	B	C	D			A/C	D/C
03 pins			 (2+PE)		PCB version	4A	250V	250V
04 pins			 (3+PE)		PCB version	4A	250V	250V
05 pins			 (4+PE)		PCB version	4A 2A(C–code)	60V	60V
06 pins			 (5+PE)		PCB version	2A	30V	30V
08 pins					PCB version	2A	30V	30V

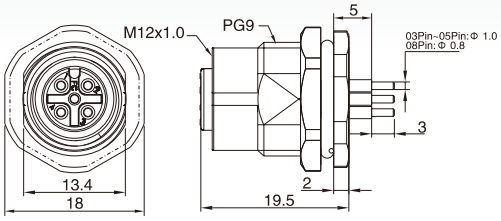
Remarks

• Please refer to Page 14 for products' part number encoding rule.

M12 Female Panel Mount, Die-cast Screw, PCB Type, Front fastened

- Connector series: M12
- Gender: Female
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12FB*FHD**ST–3

* refers to coding type
** refers to pins number





General information

Standard:	IEC 61076–2–101
Ambient temperature:	–25℃~ + 90℃
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector screw/nut:	Zinc alloy with nickel plated
Seal / O–ring:	Epoxy resin / FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP67 in locked condition
Panel cut–out:	Refer to page 237
PCB layout:	Refer to page 236

Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage	
	A	B	C	D			A/C	D/C
03 pins			 (2+PE)		PCB version	4A	250V	250V
04 pins			 (3+PE)		PCB version	4A	250V	250V
05 pins			 (4+PE)		PCB version	4A 2A(C–code)	60V	60V
06 pins			 (5+PE)		PCB version	2A	30V	30V
08 pins					PCB version	2A	30V	30V

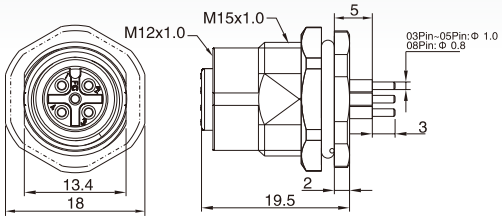
Remarks

- Please refer to Page 14 for products' part number encoding rule.
-

M12 Female Panel Mount, Plastic Screw/Nut, PCB Type, Front fastened

- Connector series: M12
- Gender: Female
- Coding: A,B,C,D
- Locking type: Plastic fix screw
- Mounting type: Front fastened
- Part No.: MB12FB*FP**ST–1

* refers to coding type
** refers to pins number
X refers to Chasis–side thread size





General information

Standard:	IEC 61076–2–101
Ambient temperature:	–25℃~ + 90℃
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector screw/nut:	PA+GF
Seal / O–ring:	Epoxy resin / FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP67 in locked condition
Panel cut–out:	Refer to page 237
PCB layout:	Refer to page 236

Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage	
	A	B	C	D			A/C	D/C
03 pins			 (2+PE)		PCB version	4A	250V	250V
04 pins			 (3+PE)		PCB version	4A	250V	250V
05 pins			 (4+PE)		PCB version	4A 2A(C–code)	60V	60V
06 pins			 (5+PE)		PCB version	2A	30V	30V
08 pins					PCB version	2A	30V	30V

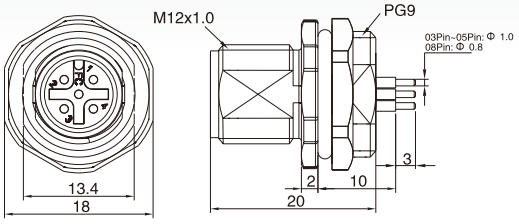
Remarks

• Please refer to Page 14 for products' part number encoding rule.

M12 Male Panel Mount, Die-cast Screw, PCB Type, Rear fastened

- Connector series: M12
- Gender: Male
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Rear fastened
- Part No.: MB12MB*RHD**ST–3

* refers to coding type
** refers to pins number





General information

Standard:	IEC 61076–2–101
Ambient temperature:	–25℃~ + 90℃
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector screw/nut:	Zinc alloy with nickel plated
Seal / O–ring:	Epoxy resin / FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP67 in locked condition
Panel cut–out:	Refer to page 237
PCB layout:	Refer to page 236

Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage	
	A	B	C	D			A/C	D/C
03 pins			 (2+PE)		PCB version	4A	250V	250V
04 pins			 (3+PE)		PCB version	4A	250V	250V
05 pins			 (4+PE)		PCB version	4A 2A(C–code)	60V	60V
06 pins			 (5+PE)		PCB version	2A	30V	30V
08 pins					PCB version	2A	30V	30V

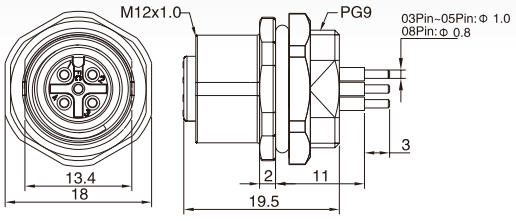
Remarks

- Please refer to Page 14 for products' part number encoding rule.

M12 Female Panel Mount, Die-cast Screw, PCB Type, Rear fastened

- Connector series: M12
- Gender: Female
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Rear fastened
- Part No.: MB12FB*RHD**ST–3

* refers to coding type
** refers to pins number





General information

Standard:	IEC 61076–2–101
Ambient temperature:	–25℃~ + 90℃
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector screw/nut:	Zinc alloy with nickel plated
Seal / O–ring:	Epoxy resin / FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP67 in locked condition
Panel cut–out:	Refer to page 237
PCB layout:	Refer to page 236

Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage	
	A	B	C	D			A/C	D/C
03 pins			 (2+PE)		PCB version	4A	250V	250V
04 pins			 (3+PE)		PCB version	4A	250V	250V
05 pins			 (4+PE)		PCB version	4A 2A(C–code)	60V	60V
06 pins			 (5+PE)		PCB version	2A	30V	30V
08 pins					PCB version	2A	30V	30V

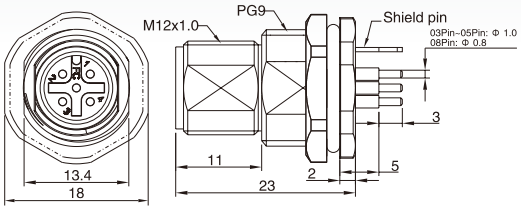
Remarks

• Please refer to Page 14 for products' part number encoding rule.

M12 Male Panel, Die-cast Screw, PCB Type, Front fastened, Shielded

- Connector series: M12
- Gender: Male
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12MBS*FHD**ST–3

* refers to coding type
** refers to pins number





General information

Standard:	IEC 61076–2–101
Ambient temperature:	–25 ℃ ~ + 90 ℃
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Zinc alloy with nickel plated
Seal / O–ring:	Epoxy resin / FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Available
IP rating:	IP67 in locked condition
Panel cut–out:	Refer to page 237
PCB layout:	Refer to page 236

Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage	
	A	B	C	D			A/C	D/C
03 pins			 (2+PE)		PCB version	4A	250V	250V
04 pins			 (3+PE)		PCB version	4A	250V	250V
05 pins			 (4+PE)		PCB version	4A 2A(C–code)	60V	60V
06 pins			 (5+PE)		PCB version	2A	30V	30V
08 pins					PCB version	2A	30V	30V

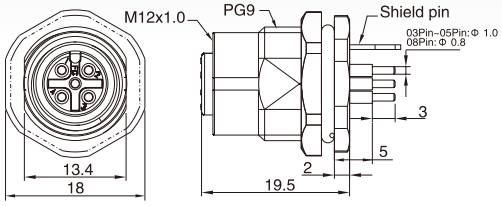
Remarks

- Please refer to Page 14 for products' part number encoding rule.

M12 Female Panel, Die-cast Screw, PCB Type, Front fastened, Shielded

- Connector series: M12
- Gender: Female
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12FBS*FHD**ST–3

* refers to coding type
** refers to pins number





General information

Standard:	IEC 61076–2–101
Ambient temperature:	–25 ℃ ~ + 90 ℃
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Zinc alloy with nickel plated
Seal / O–ring:	Epoxy resin / FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Available
IP rating:	IP67 in locked condition
Panel cut–out:	Refer to page 237
PCB layout:	Refer to page 236

Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage	
	A	B	C	D			A/C	D/C
03 pins			 (2+PE)		PCB version	4A	250V	250V
04 pins			 (3+PE)		PCB version	4A	250V	250V
05 pins			 (4+PE)		PCB version	4A 2A(C–code)	60V	60V
06 pins			 (5+PE)		PCB version	2A	30V	30V
08 pins					PCB version	2A	30V	30V

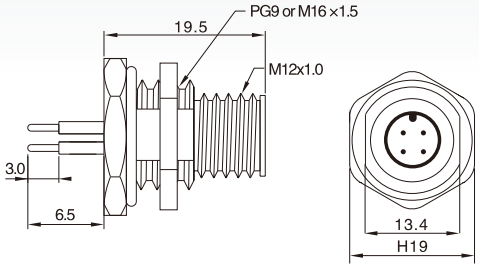
Remarks

• Please refer to Page 14 for products' part number encoding rule.

M12 Male Panel Mount, PCB Type, Front fastened

- Connector series: M12
- Gender: Male
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12MB*FF**ST–X

* refers to coding type
** refers to pins number
X refers to Chasis–side thread size





General information

Standard:	IEC 61076–2–101
Ambient temperature:	–25 ℃ ~ + 90 ℃
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector 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
Panel cut–out:	Refer to page 237
PCB layout:	Refer to page 236

Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage	
	A	B	C	D			A/C	D/C
03 pins			 (2+PE)		PCB version	4A	250V	250V
04 pins			 (3+PE)		PCB version	4A	250V	250V
05 pins			 (4+PE)		PCB version	4A 2A(C–code)	60V	60V
06 pins			 (5+PE)		PCB version	2A	30V	30V
08 pins					PCB version	2A	30V	30V
12 pins					PCB version	1.5A	30V	30V
17 pins					PCB version	1.5A	30V	30V

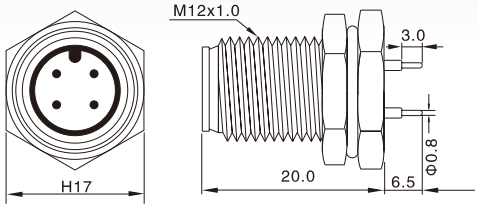
Remarks

• Please refer to Page 14 for products' part number encoding rule.

M12 Male Panel Mount, PCB Type, Front fastened

- Connector series: M12
- Gender: Male
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12MB*FF**ST–0

* refers to coding type
** refers to pins number





General information

Standard:	IEC 61076–2–101
Ambient temperature:	–25 ℃ ~ + 90 ℃
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector 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
Panel cut–out:	Refer to page 237
PCB layout:	Refer to page 236

Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage	
	A	B	C	D			A/C	D/C
03 pins			 (2+PE)		PCB version	4A	250V	250V
04 pins			 (3+PE)		PCB version	4A	250V	250V
05 pins			 (4+PE)		PCB version	4A 2A(C–code)	60V	60V
06 pins			 (5+PE)		PCB version	2A	30V	30V
08 pins					PCB version	2A	30V	30V
12 pins					PCB version	1.5A	30V	30V
17 pins					PCB version	1.5A	30V	30V

Remarks

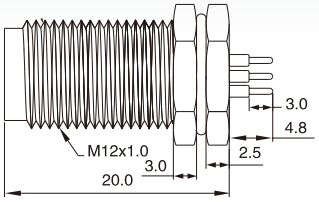
• Please refer to Page 14 for products' part number encoding rule.

M12 Male Panel Mount, Plastic Screw/Nut, PCB Type, Front fastened

- Connector series: M12
- Gender: Male
- Coding: A
- Locking type: Plastic fix screw
- Mounting type: Front fastened
- Part No.: MB12MBAFP**ST–0

** refers to pins number







General information

Standard:	IEC 61076–2–101
Ambient temperature:	–25 ℃~ + 90℃
Connector body:	PA + GF
Connector contacts:	Brass with gold plated
Connector nut/screw:	PA + GF
Seal / O–ring:	Epoxy resin/FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP67 in locked condition
Panel cut–out:	Refer to page 237
PCB layout:	Refer to page 236

Electrical data & Mechanical data

Contacts	A–Coding	Contacts termination	Rated current	Voltage	
				A/C	D/C
04 pins		PCB version	4A	250V	250V
05 pins		PCB version	4A	60V	60V
08 pins		PCB version	2A	30V	30V

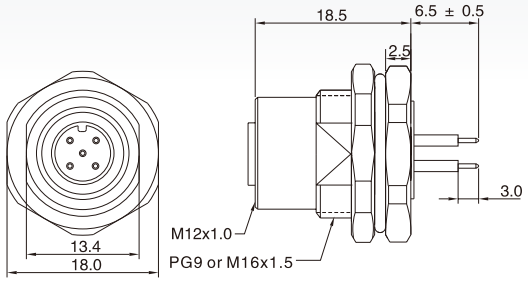
Remarks

• Please refer to Page 14 for products' part number encoding rule.

M12 Female Panel Mount, PCB Type, Front fastened

- Connector series: M12
- Gender: Female
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12FB*FF**ST–X

* refers to coding type
** refers to pins number
X refers to Chasis–side thread size





General information

Standard:	IEC 61076–2–101
Ambient temperature:	–25 ℃ ~ + 90 ℃
Connector insert:	PA+GF
Connector contacts:	Brass with gold plated
Connector 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
Panel cut–out:	Refer to page 237
PCB layout:	Refer to page 236

Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage	
	A	B	C	D			A/C	D/C
03 pins			 (2+PE)		PCB version	4A	250V	250V
04 pins			 (3+PE)		PCB version	4A	250V	250V
05 pins			 (4+PE)		PCB version	4A 2A(C–code)	60V	60V
06 pins			 (5+PE)		PCB version	2A	30V	30V
08 pins					PCB version	2A	30V	30V
12 pins					PCB version	1.5A	30V	30V
17 pins					PCB version	1.5A	30V	30V

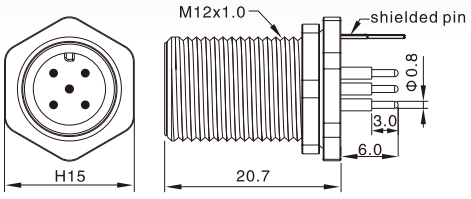
Remarks

• Please refer to Page 14 for products' part number encoding rule.

M12 Male Panel Mount, PCB Type, Front fastened, Shielded

- Connector series: M12
- Gender: Male
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12MBS*FF**ST–0

* refers to coding type
** refers to pins number





General information

Standard:	IEC 61076–2–101
Ambient temperature:	–25 ℃ ~ + 90 ℃
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O–ring:	Epoxy resin / FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Available
IP rating:	IP67 in locked condition
Panel cut–out:	Refer to page 237
PCB layout:	Refer to page 236

Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage	
	A	B	C	D			A/C	D/C
03 pins			 (2+PE)		PCB version	4A	250V	250V
04 pins			 (3+PE)		PCB version	4A	250V	250V
05 pins			 (4+PE)		PCB version	4A 2A(C–code)	60V	60V
06 pins			 (5+PE)		PCB version	2A	30V	30V
08 pins					PCB version	2A	30V	30V
12 pins					PCB version	1.5A	30V	30V
17 pins					PCB version	1.5A	30V	30V

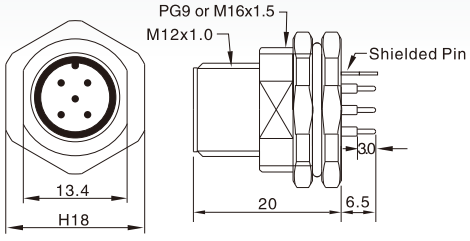
Remarks

• Please refer to Page 14 for products' part number encoding rule.

M12 Male Panel Mount, PCB Type, Front fastened,Shielded

- Connector series: M12
- Gender: Male
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12MBS*FF**ST–X

* refers to coding type
** refers to pins number
X refers to Chasis–side thread size





General information

Standard:	IEC 61076–2–101
Ambient temperature:	–25℃ ~ + 90℃
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O–ring:	Epoxy resin / FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Available
IP rating:	IP67 in locked condition
Panel cut–out:	Refer to page 237
PCB layout:	Refer to page 236

Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage	
	A	B	C	D			A/C	D/C
03 pins			 (2+PE)		PCB version	4A	250V	250V
04 pins			 (3+PE)		PCB version	4A	250V	250V
05 pins			 (4+PE)		PCB version	4A 2A(C–code)	60V	60V
06 pins			 (5+PE)		PCB version	2A	30V	30V
08 pins					PCB version	2A	30V	30V
12 pins					PCB version	1.5A	30V	30V
17 pins					PCB version	1.5A	30V	30V

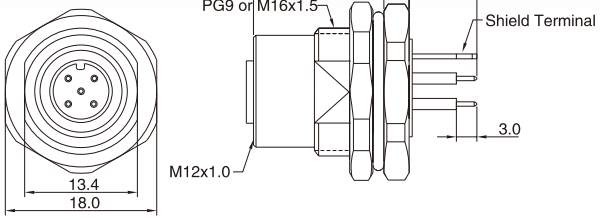
Remarks

• Please refer to Page 14 for products' part number encoding rule.

M12 Female Panel Mount, PCB Type, Front fastened, Shielded

- Connector series: M12
- Gender: Female
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12FBS*FF**ST–X

* refers to coding type
** refers to pins number
X refers to Chasis–side thread size





General information

Standard:	IEC 61076–2–101
Ambient temperature:	–25 ℃ ~ + 90 ℃
Connector insert:	PA+GF
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O–ring:	Epoxy resin / FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Available
IP rating:	IP67 in locked condition
Panel cut–out:	Refer to page 237
PCB layout:	Refer to page 236

Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage	
	A	B	C	D			A/C	D/C
03 pins			 (2+PE)		PCB version	4A	250V	250V
04 pins			 (3+PE)		PCB version	4A	250V	250V
05 pins			 (4+PE)		PCB version	4A 2A(C–code)	60V	60V
06 pins			 (5+PE)		PCB version	2A	30V	30V
08 pins					PCB version	2A	30V	30V
12 pins					PCB version	1.5A	30V	30V
17 pins					PCB version	1.5A	30V	30V

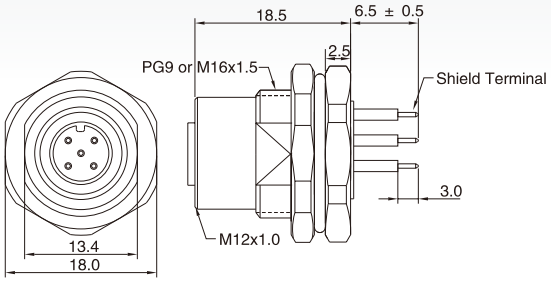
Remarks

• Please refer to Page 14 for products' part number encoding rule.

M12 Female Panel Mount, PCB Type, Front Fastened, with Shielded Terminal

- Connector series: M12
- Gender: Female
- Coding: A,B,C,D
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12FBS*FF**ST–X–S

* refers to coding type
** refers to pins number
X refers to Chasis–side thread size





General information

Standard:	IEC 61076–2–101
Ambient temperature:	–25℃~ + 90℃
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
Shielding:	Available
IP rating:	IP67 in locked condition
Panel cut–out:	Refer to page 237
PCB layout:	Refer to page 237

Electrical data & Mechanical data

Contacts	Available Coding				Contacts termination	Rated current	Voltage	
	A	B	C	D			A/C	D/C
03 pins			 (2+PE)		PCB version	4A	250V	250V
04 pins			 (3+PE)		PCB version	4A	250V	250V
05 pins			 (4+PE)		PCB version	4A 2A(C–code)	60V	60V
06 pins			 (5+PE)		PCB version	2A	30V	30V
08 pins					PCB version	2A	30V	30V
12 pins					PCB version	1.5A	30V	30V
17 pins					PCB version	1.5A	30V	30V

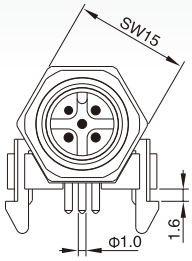
Remarks

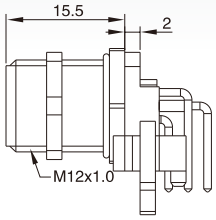
• Please refer to Page 14 for products' part number encoding rule.

M12 Male Panel Mount, Angled, PCB Type, Front fastened

- Connector series: M12
- Gender: Male
- Coding: A,B,D
- Locking type: Fix screw
- Mounting type: Right angled
- Part No.: MB12MB*FF**RA–0 (Unshielding)
  MB12MBS*FF**RA–0 (Shielding)

* refers to coding type
** refers to pins number







General information

Standard:	IEC 61076–2–101
Ambient temperature:	–25 ℃ ~ + 90 ℃
Connector insert:	PA+GF
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O–ring:	FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Unavailable/Available
IP rating:	IP67 in locked condition
Panel cut–out:	Refer to page 237
PCB layout:	Refer to page 239

Electrical data & Mechanical data

Contacts	Available Coding			Contacts termination	Rated current	Voltage	
	A	B	D			A/C	D/C
04 pins				PCB version	4A	250V	250V
05 pins				PCB version	4A	60V	60V
08 pins				PCB version	2A	30V	30V

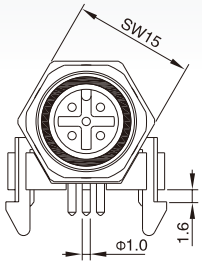
Remarks

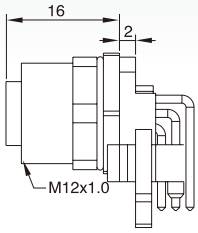
• Please refer to Page 14 for products' part number encoding rule.

M12 Female Panel Mount, Angled, PCB Type, Front fastened

- Connector series: M12
- Gender: Female
- Coding: A,B,D
- Locking type: Fix screw
- Mounting type: Right angled
- Part No.: MB12FB*FF**RA–0(Unshielding)
  MB12FBS*FF**RA–0 (Shielding)

* refers to coding type
** refers to pins number







General information

Standard:	IEC 61076–2–101
Ambient temperature:	–25 ℃ ~ + 90 ℃
Connector insert:	PA+GF
Connector contacts:	Brass with gold plated
Connector nut/screw:	Brass with nickel plated
Seal / O–ring:	FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Unavailable/Available
IP rating:	IP67 in locked condition
Panel cut–out:	Refer to page 237
PCB layout:	Refer to page 237

Electrical data & Mechanical data

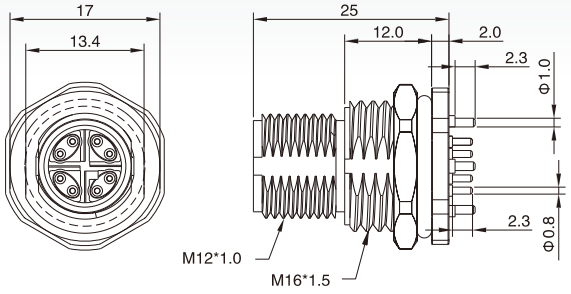
Contacts	Available Coding			Contacts termination	Rated current	Voltage	
	A	B	D			A/C	D/C
04 pins				PCB version	4A	250V	250V
05 pins				PCB version	4A	60V	60V
08 pins				PCB version	2A	30V	30V

Remarks

• Please refer to Page 14 for products' part number encoding rule.

M12 Male Panel Mount, PCB Type, Front fastened, X-coding, Shielded

- Connector series: M12
- Gender: Male
- Coding: X
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12MBSXFF08ST–2





General information

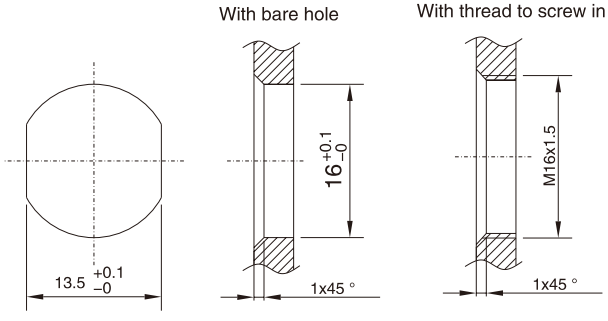
Standard:	IEC 61076–2–109
Ambient temperature:	–25℃~ + 90℃
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector screw/nut:	Brass/Zinc with nickel plated
Seal / O–ring:	FKM/Epoxy resin

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 10mΩ
Shielding:	Available
IP rating:	IP67 in locked condition

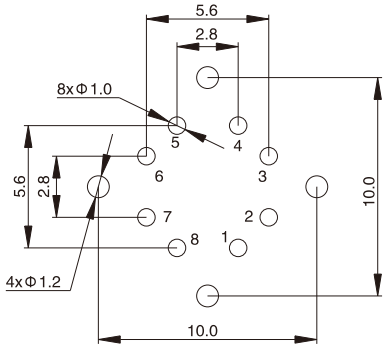
Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage	
				A/C	D/C
08 pins		PCB version	0.5A	50V	60V

Panel Cut–out Dimensions



PCB Layout:

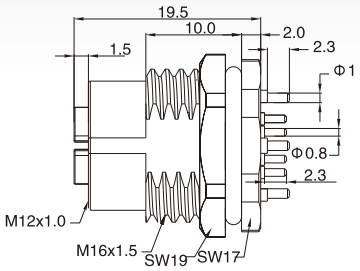


Remarks

• Please refer to Page 14 for products' part number encoding rule.

M12 Female Panel Mount, PCB Type, Front fastened, X-coding, Shielded

- Connector series: M12
- Gender: Female
- Coding: X
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12FBSXFF08ST–2





General information

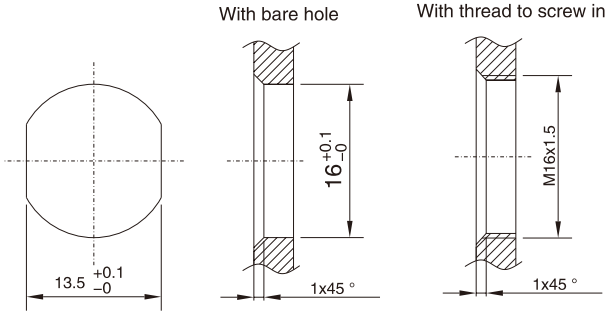
Standard:	IEC 61076–2–109
Ambient temperature:	–25℃~ + 90℃
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector screw/nut:	Brass/Zinc with nickel plated
Seal / O–ring:	FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 10mΩ
Shielding:	Available
IP rating:	IP67 in locked condition

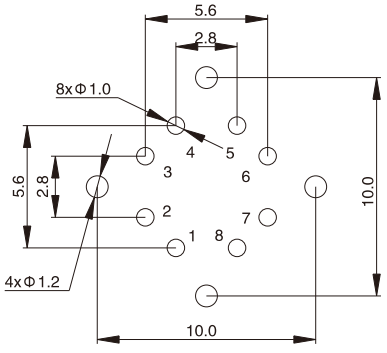
Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage	
				A/C	D/C
08 pins		PCB version	0.5A	50V	60V

Panel Cut–out Dimensions



PCB Layout:

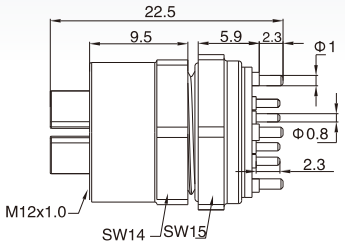


Remarks

• Please refer to Page 14 for products' part number encoding rule.

M12 Female Panel Mount, PCB Type, Front fastened, X-coding, Shielded

- Connector series: M12
- Gender: Female
- Coding: X
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB12FBSXFF08ST–0





General information

Standard:	IEC 61076–2–109
Ambient temperature:	–25℃~ + 90℃
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector screw/nut:	Brass/Zinc with nickel plated
Seal / O–ring:	FKM

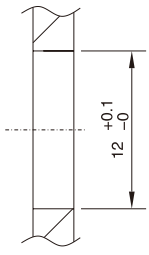
Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 10mΩ
Shielding:	Available
IP rating:	IP67 in locked condition

Electrical data & Mechanical data

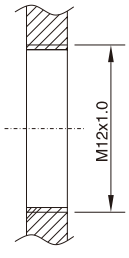
Contacts		Contacts termination	Rated current	Voltage	
				A/C	D/C
08 pins		PCB version	0.5A	50V	60V

Panel Cut–out Dimensions

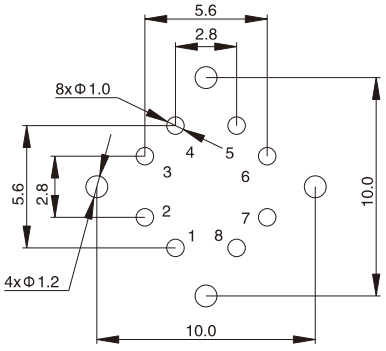
With bare hole



With thread to screw in



PCB Layout:

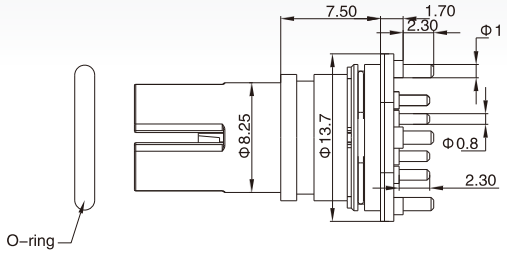


Remarks

• Please refer to Page 14 for products' part number encoding rule.

M12 Female Panel Mount, PCB Type, Without Screw, X-coding, Shielded

- Connector series: M12
- Gender: Female
- Coding: X
- Locking type: Snap in
- Mounting type: Front fastened
- Part No.: MB12FBSXFI08ST





General information

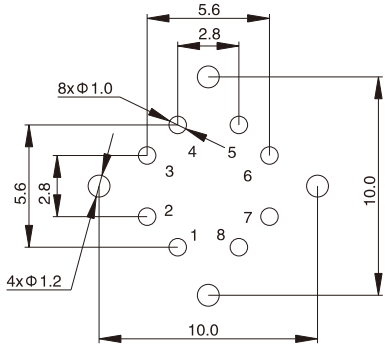
Standard:	IEC 61076–2–109
Ambient temperature:	–25℃~ + 90℃
Connector insert:	PA
Connector contacts:	Brass with gold plated
Connector screw/nut:	Brass/Zinc with nickel plated
Seal / O–ring:	FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 10mΩ
Shielding:	Available
IP rating:	IP67 in locked condition

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage	
				A/C	D/C
08 pins		PCB version	0.5A	50V	60V

PCB Layout:



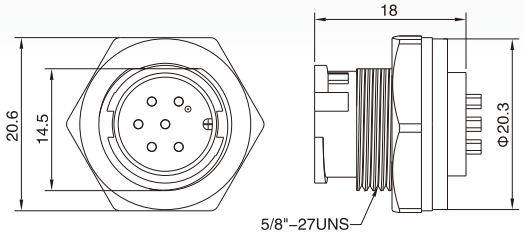
Remarks

• Please refer to Page 14 for products' part number encoding rule.

M12 Male Panel Mount, Solder, Front fastened, Quick-lock Type

- Connector series: M12
- Gender: Male
- Locking type: Quick–lock
- Mounting type: Front fastened
- Part No.: MB12MSAFQ**ST

** refers to pins number





General information

Ambient temperature:	–25 ℃ ~ + 90 ℃
Connector insert:	PA + GF
Connector contacts:	Brass with gold plated
Connector nut/screw:	PA+GF
Seal / O–ring:	Epoxy resin / FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP 65/IP67 in locked condition
Panel cut–out:	Refer to page 237

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Wire gauge / size		Wire	Wire ending & length
				A/C	D/C	AWG	mm²		
04 pins		Solder version	4A	250V	250V	22AWG	0.34	PVC wire or customized	Customized wire ending and length
06 pins		Solder version	4A	60V	60V	22AWG	0.34		

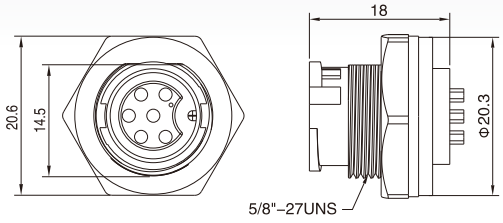
Remarks

• Please refer to Page 14 for products' part number encoding rule.

M12 Female Panel Mount, Solder, Front fastened, Quick-lock Type

- Connector series: M12
- Gender: Female
- Locking type: Quick–lock
- Mounting type: Front fastened
- Part No.: MB12FSAFQ**ST

** refers to pins number





General information

Ambient temperature:	–25 ℃ ~ + 90 ℃
Connector insert:	PA + GF
Connector contacts:	Brass with gold plated
Connector nut/screw:	PA+GF
Seal / O–ring:	Epoxy resin / FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP 65/IP67 in locked condition
Panel cut–out:	Refer to page 237

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Wire gauge / size		Wire	Wire ending & length
				A/C	D/C	AWG	mm²		
04 pins		Solder version	4A	250V	250V	22AWG	0.34	PVC wire or customized	Customized wire ending and length
06 pins		Solder version	4A	60V	60V	22AWG	0.34		

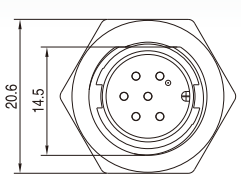
Remarks

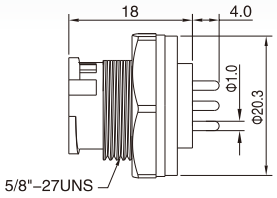
• Please refer to Page 14 for products' part number encoding rule.

M12 Male Panel Mount, PCB Type, Front fastened, Quick-lock Type

- Connector series: M12
- Gender: Male
- Locking type: Quick–lock
- Mounting type: Front fastened
- Part No.: MB12MBAFQ**ST

** refers to pins number







General information

Ambient temperature:	–25 ℃ ~ + 90 ℃
Connector insert:	PA + GF
Connector contacts:	Brass with gold plated
Connector nut/screw:	PA+GF
Seal / O–ring:	Epoxy resin / FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP 65/IP67 in locked condition
Panel cut–out:	Refer to page 237
PCB layout:	Refer to page 236

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage	
				A/C	D/C
04 pins		PCB version	4A	250V	250V
06 pins		PCB version	4A	60V	60V

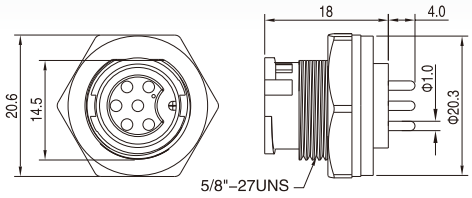
Remarks

• Please refer to Page 14 for products' part number encoding rule.

M12 Female Panel Mount, PCB Type, Front fastened, Quick-lock Type

- Connector series: M12
- Gender: Female
- Locking type: Quick–lock
- Mounting type: Front fastened
- Part No.: MB12FBAFQ**ST

** refers to pins number





General information

Ambient temperature:	–25 ℃ ~ + 90 ℃
Connector insert:	PA + GF
Connector contacts:	Brass with gold plated
Connector nut/screw:	PA+GF
Seal / O–ring:	Epoxy resin / FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP 65/IP67 in locked condition
Panel cut–out:	Refer to page 237
PCB layout:	Refer to page 236

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage	
				A/C	D/C
04 pins		PCB version	4A	250V	250V
06 pins		PCB version	4A	60V	60V

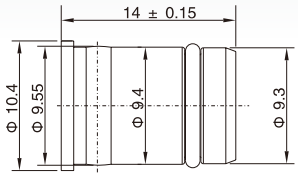
Remarks

• Please refer to Page 14 for products' part number encoding rule.

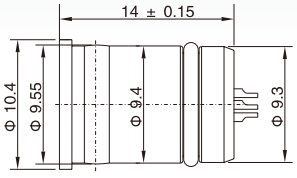
M12 Male Plastic Housing with O-ring, Solder

- Connector series: M12
- Gender: Male
- Coding: A,B,D
- Locking type: Snap–in
- Mounting type: Straight
- Part No.: M12H–MS*XX

* refers to coding type
XX refers to pins number



(3,4,5 Pin)



(8 Pin)



General information

Standard:	IEC 61076–2–101
Ambient temperature:	–25℃ ~ + 90℃
Connector insert:	PA
Connector contacts:	Brass with gold plated
Seal / O–ring:	Epoxy resin/FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance :	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP67 in locked condition

Electrical data & Mechanical data

Contacts	Available Coding			Contacts termination	Rated current	Voltage	
	A	B	D			A/C	D/C
03 pins				Solder version	4A	250V	250V
04 pins				Solder version	4A	250V	250V
05 pins				Solder version	4A	60V	60V
08 pins				Solder version	2A	30V	30V

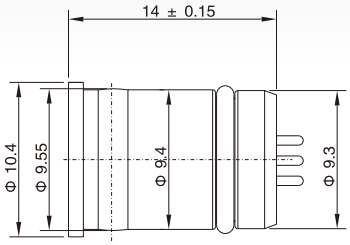
Remarks

• Please refer to Page 14 for products' part number encoding rule.

M12 Male Plastic Housing with O-ring, PCB Type

- Connector series: M12
- Gender: Male
- Coding: A,B,D
- Locking type: Snap–in
- Mounting type: Straight
- Part No.: M12H–MB*XX

  * refers to coding type
  XX refers to pins number





General information

Standard:	IEC 61076–2–101
Ambient temperature:	–25℃ ~ + 90℃
Connector insert:	PA
Connector contacts:	Brass with gold plated
Seal / O–ring:	Epoxy resin/FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance :	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP67 in locked condition

Electrical data & Mechanical data

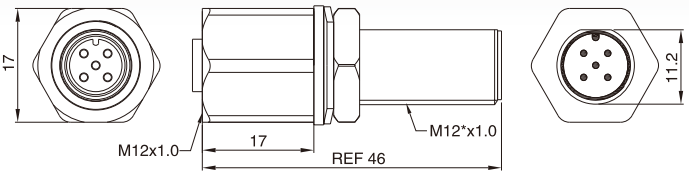
Contacts	Available Coding			Contacts termination	Rated current	Voltage	
	A	B	D			A/C	D/C
03 pins				PCB version	4A	250V	250V
04 pins				PCB version	4A	250V	250V
05 pins				PCB version	4A	60V	60V
08 pins				PCB version	2A	30V	30V

Remarks

• Please refer to Page 14 for products' part number encoding rule.

M12 Male to Female Panel Mount, A-Coding

- Connector series: M12
- Gender: Male&Female
- Coding: A
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MT–007~008





General information

Standard:	IEC 61076–2–101
Ambient temperature:	–25 ℃ ~ + 90 ℃
Connector insert:	PA+GF / TPU
Connector contacts:	Brass with gold plated
Connector 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
Panel cut–out:	Refer to page 237

Electrical data & Mechanical data

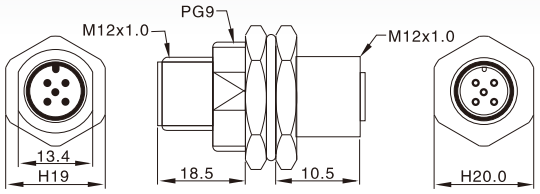
Contacts			Part No.	Rated current	Voltage	
					A/C	D/C
04 pins	 Female	 Male	MT–007	4A	250V	250V
05 pins	 Female	 Male	MT–008	4A	60V	60V

Remarks

• Please refer to Page 14 for products' part number encoding rule.

M12 Male to Female Panel Mount, A-Coding

- Connector series: M12
- Gender: Male&Female
- Coding: A
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MT–009~010





General information

Standard:	IEC 61076–2–101
Ambient temperature:	–25 ℃ ~ + 90 ℃
Connector insert:	PA+GF / TPU
Connector contacts:	Brass with gold plated
Connector 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
Panel cut–out:	Refer to page 237

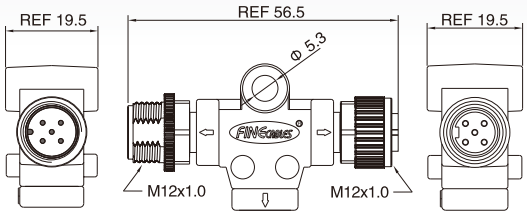
Electrical data & Mechanical data

Contacts			Part No.	Rated current	Voltage	
					A/C	D/C
04 pins	 Female	 Male	MT–009	4A	250V	250V
05 pins	 Female	 Male	MT–010	4A	60V	60V

M12 I-Adapter, Male-Female

- Connector series: M12
- Gender: Female&Male
- Coding: A, B, D
- Locking type: Fix screw
- Mounting type: I type
- Part No.:MI–*XX

* refers to coding type
XX refers to pins number





General information

Standard:	IEC 61076–2–101
Ambient temperature:	–20℃~ + 80℃
Connector insert:	TPU; PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Zinc alloy with nickel plated
Connector overmold:	TPU
Seal/O–ring:	FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts	Available Coding			Rated current	Voltage	
	A	B	D		A/C	D/C
03 pins	 Male Female	 Male Female		4A	250V	250V
04 pins	 Male Female	 Male Female	 Male Female	4A	250V	250V
05 pins	 Male Female	 Male Female		4A	60V	60V
08 pins	 Male Female			2A	30V	30V

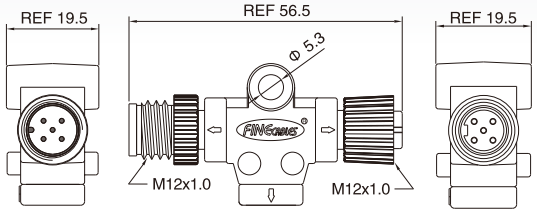
Remarks

• Please refer to Page 14 for products' part number encoding rule.

M12 Plastic I-Adapter, Male-Female

- Connector series: M12
- Gender: Female&Male
- Coding: A, B, D
- Locking type: Plastic fix screw
- Mounting type: I type
- Part No.:MIP–*XX

* refers to coding type
XX refers to pins number





General information

Standard:	IEC 61076–2–101
Ambient temperature:	–20 ℃~ + 80℃
Connector insert:	TPU; PA
Connector contacts:	Brass with gold plated
Connector screw/nut:	PA+GF
Connector overmold:	TPU
Seal/O–ring:	FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts	Available Coding			Rated current	Voltage	
	A	B	D		A/C	D/C
03 pins	 Male / Female	 Male / Female		4A	250V	250V
04 pins	 Male / Female	 Male / Female	 Male / Female	4A	250V	250V
05 pins	 Male / Female	 Male / Female		4A	60V	60V
08 pins	 Male / Female			2A	30V	30V

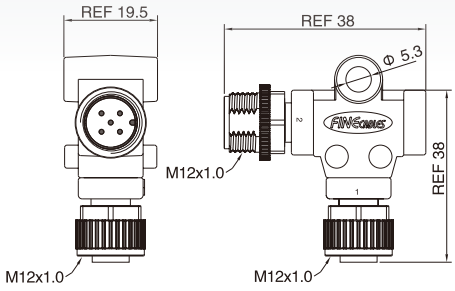
Remarks

• Please refer to Page 14 for products' part number encoding rule.

M12 L-Adapter, Male-Female

- Connector series: M12
- Gender: Female&Male
- Coding: A, B, D
- Locking type: Fix screw
- Mounting type: L type
- Part No.:ML–*XX

* refers to coding type
XX refers to pins number





General information

Standard:	IEC 61076–2–101
Ambient temperature:	–20℃~ + 80℃
Connector insert:	TPU; PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Zinc alloy with nickel plated
Connector overmold:	TPU
Seal/O–ring:	FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts	Available Coding			Rated current	Voltage	
	A	B	D		A/C	D/C
03 pins	Male / Female	Male / Female		4A	250V	250V
04 pins	Male / Female	Male / Female	Male / Female	4A	250V	250V
05 pins	Male / Female	Male / Female		4A	60V	60V
08 pins	Male / Female			2A	30V	30V

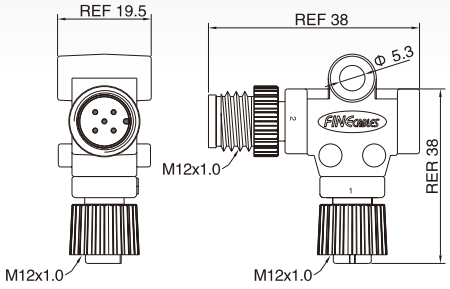
Remarks

• Please refer to Page 14 for products' part number encoding rule.

M12 Plastic L-Adapter, Male-Female

- Connector series: M12
- Gender: Female&Male
- Coding: A, B, D
- Locking type: Plastic fix screw
- Mounting type: L type
- Part No.:MLP–*XX

* refers to coding type
XX refers to pins number





General information

Standard:	IEC 61076–2–101
Ambient temperature:	–20 ℃~ + 80℃
Connector insert:	TPU; PA
Connector contacts:	Brass with gold plated
Connector screw/nut:	PA+GF
Connector overmold:	TPU
Seal/O–ring:	FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts	Available Coding			Rated current	Voltage	
	A	B	D		A/C	D/C
03 pins	 Male Female	 Male Female		4A	250V	250V
04 pins	 Male Female	 Male Female	 Male Female	4A	250V	250V
05 pins	 Male Female	 Male Female		4A	60V	60V
08 pins	 Male Female			2A	30V	30V

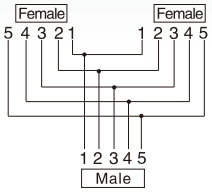
Remarks

• Please refer to Page 14 for products' part number encoding rule.

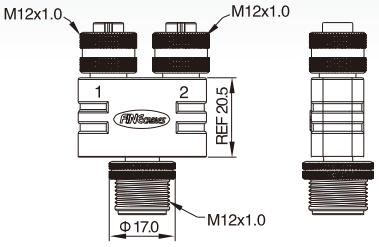
M12 Y-Splitter, Male-2*Female

- Connector series: M12
- Gender: Female & Male
- Coding: A, B,D
- Locking type: Fix screw
- Mounting type: Y type
- Part No.: MY1–*XX

* refers to coding type
XX refers to pins number



Circuit diagram





General information

Ambient temperature:	–20℃ ~ + 80 ℃
Connector insert:	TPU; PA
Connector contacts:	Brass with gold plated
Connector screw/nut:	Brass with nickel plated
Overrmold:	PVC
O–ring:	FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts	Available Coding			Rated current	Voltage	
	A	B	D		A/C	D/C
03 pins	Male / Female	Male / Female		4A	250V	250V
04 pins	Male / Female	Male / Female	Male / Female	4A	250V	250V
05 pins	Male / Female	Male / Female		4A	60V	60V
08 pins	Male / Female			2A	30V	30V

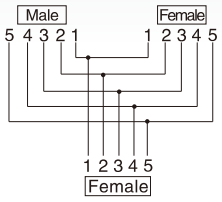
Remarks

• Please refer to Page 14 for products' part number encoding rule.

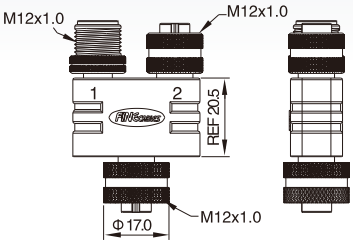
M12 Y-Splitter, Female-Male-Female

- Connector series: M12
- Gender: Female & Male
- Coding: A, B, D
- Locking type: Fix screw
- Mounting type: Y type
- Part No.: MY2–*XX

* refers to coding type
XX refers to pins number



Circuit diagram





General information

Ambient temperature:	–20℃ ~ + 80 ℃
Connector insert:	TPU; PA
Connector contacts:	Brass with gold plated
Connector screw/nut:	Brass with nickel plated
Overrmold:	PVC
O–ring:	FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts	Available Coding			Rated current	Voltage	
	A	B	D		A/C	D/C
03 pins	Male / Female	Male / Female		4A	250V	250V
04 pins	Male / Female	Male / Female	Male / Female	4A	250V	250V
05 pins	Male / Female	Male / Female		4A	60V	60V
08 pins	Male / Female			2A	30V	30V

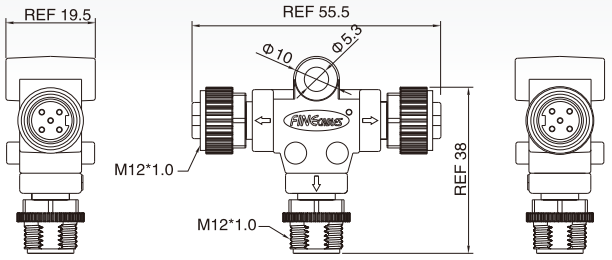
Remarks

• Please refer to Page 14 for products' part number encoding rule.

M12 T-Splitter,Female-Male-Female

- Connector series: M12
- Gender: Female & Male
- Coding: A, B, D
- Locking type: Fix screw
- Mounting type: T type
- Part No.: MT–*XX

* refers to coding type
XX refers to pins number





General information

Ambient temperature:	–20℃ ~ + 80 ℃
Connector insert:	TPU; PA
Connector contacts:	Brass with gold plated
Connector screw/nut:	Zinc alloy with nickel plated
Overrmold:	TPU
O–ring:	FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts	Available Coding			Rated current	Voltage	
	A	B	D		A/C	D/C
03 pins	Male / Female	Male / Female		4A	250V	250V
04 pins	Male / Female	Male / Female	Male / Female	4A	250V	250V
05 pins	Male / Female	Male / Female		4A	60V	60V
08 pins	Male / Female			2A	30V	30V

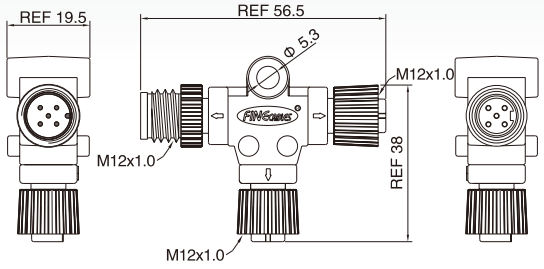
Remarks

• Please refer to Page 14 for products' part number encoding rule.

M12 Plastic T-Splitter, Female-Male-Female

- Connector series: M12
- Gender: Female&Male
- Coding: A, B, D
- Locking type: Plastic fix screw
- Mounting type: T type
- Part No.:MTP–*XX

* refers to coding type
XX refers to pins number





General information

Standard:	IEC 61076–2–101
Ambient temperature:	–20 ℃~ + 80℃
Connector insert:	TPU; PA
Connector contacts:	Brass with gold plated
Connector screw/nut:	PA+GF
Connector overmold:	TPU
Seal/O–ring:	FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts	Available Coding			Rated current	Voltage	
	A	B	D		A/C	D/C
03 pins	 Male Female	 Male Female		4A	250V	250V
04 pins	 Male Female	 Male Female	 Male Female	4A	250V	250V
05 pins	 Male Female	 Male Female		4A	60V	60V
08 pins	 Male Female			2A	30V	30V

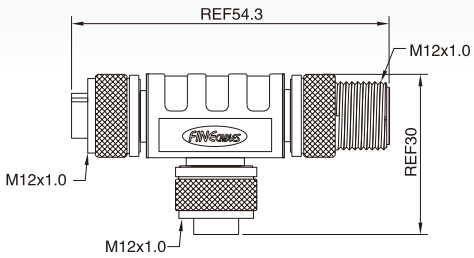
Remarks

• Please refer to Page 14 for products' part number encoding rule.

M12 T-Splitter, Female-Male-Female, Shielded

- Connector series: M12
- Gender: Female&Male
- Coding: A, B, D
- Locking type: Fix screw
- Mounting type: T type
- Part No.:MTS–*XX

* refers to coding type
XX refers to pins number





General information

Standard:	IEC 61076–2–101
Ambient temperature:	–25 ℃~ + 90℃
Connector insert:	TPU; PA
Connector contacts:	Brass with gold plated
Connector 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:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts	Available Coding			Rated current	Voltage	
	A	B	D		A/C	D/C
03 pins	Male / Female	Male / Female		4A	250V	250V
04 pins	Male / Female	Male / Female	Male / Female	4A	250V	250V
05 pins	Male / Female	Male / Female		4A	60V	60V
08 pins	Male / Female			2A	30V	30V

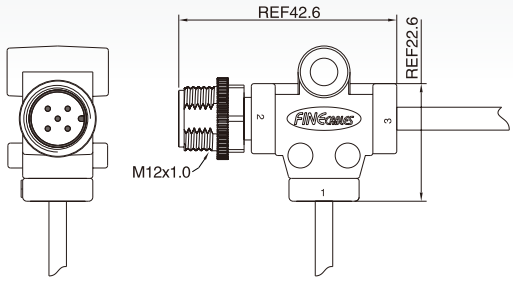
Remarks

• Please refer to Page 14 for products' part number encoding rule.

M12 T-Splitter, Male with Molded Cable

- Connector series: M12
- Gender: Male&Cable
- Coding: A, B, D
- Locking type: Fix screw
- Mounting type: T type
- Part No.:MTC–M*HD**–XXXXXX

* refers to coding type
** refers to pins number
X refers to cable specification





General information

Standard:	IEC 61076–2–101
Ambient temperature:	–20℃~ + 80℃
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector nut/screw:	Zinc alloy with nickel plated
Connector overmold:	TPU
Seal/O–ring:	FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts	Available Coding			Rated current	Voltage		Wire gauge / size		Cable jacket	Cable ending & length
	A	B	D		A/C	D/C	AWG	mm^2		
03 pins				4A	250V	250V	22AWG	0.34	PUR/PVC	Customized cable ending and length
04 pins				4A	250V	250V	22AWG	0.34		
05 pins				4A	60V	60V	22AWG	0.34		
08 pins				2A	30V	30V	24AWG	0.25		

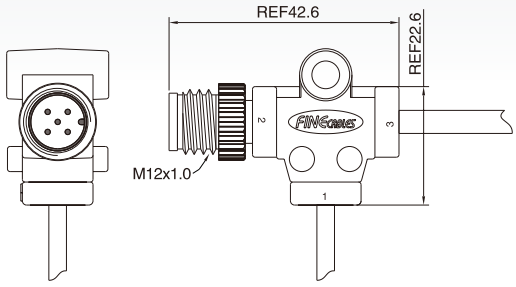
Remarks

• Please refer to Page 14 for products' part number encoding rule.

M12 Plastic T-Splitter, Male with Molded Cable

- Connector series: M12
- Gender: Male&Cable
- Coding: A, B, D
- Locking type: Plastic fix screw
- Mounting type: T type
- Part No.:MTC–M*P**–XXXXXX

* refers to coding type
** refers to pins number
X refers to cable specification





General information

Standard:	IEC 61076–2–101
Ambient temperature:	–20℃~ + 80℃
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector nut/screw:	PA+GF
Connector overmold:	TPU
Seal/O–ring:	FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts	Available Coding			Rated current	Voltage		Wire gauge / size		Cable jacket	Cable ending & length
	A	B	D		A/C	D/C	AWG	mm^2		
03 pins				4A	250V	250V	22AWG	0.34	PUR/PVC	Customized cable ending and length
04 pins				4A	250V	250V	22AWG	0.34		
05 pins				4A	60V	60V	22AWG	0.34		
08 pins				2A	30V	30V	24AWG	0.25		

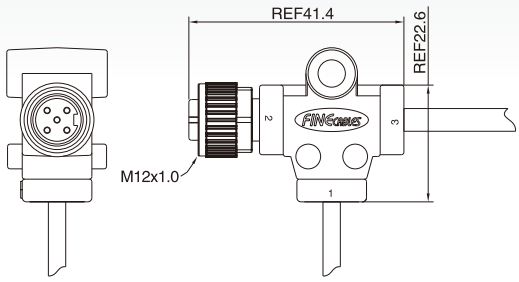
Remarks

• Please refer to Page 14 for products' part number encoding rule.

M12 T-Splitter, Female with Molded Cable

- Connector series: M12
- Gender: Female&Cable
- Coding: A, B, D
- Locking type: Fix screw
- Mounting type: T type
- Part No.:MTC–F*HD**–XXXXXX

* refers to coding type
** refers to pins number
X refers to cable specification





General information

Standard:	IEC 61076–2–101
Ambient temperature:	–20℃~ + 80℃
Connector insert:	TPU; PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Zinc alloy with nickel plated
Connector overmold:	TPU
Seal/O–ring:	FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts	Available Coding			Rated current	Voltage		Wire gauge / size		Cable jacket	Cable ending & length
	A	B	D		A/C	D/C	AWG	mm^2		
03 pins				4A	250V	250V	22AWG	0.34	PUR/PVC	Customized cable ending and length
04 pins				4A	250V	250V	22AWG	0.34		
05 pins				4A	60V	60V	22AWG	0.34		
08 pins				2A	30V	30V	24AWG	0.25		

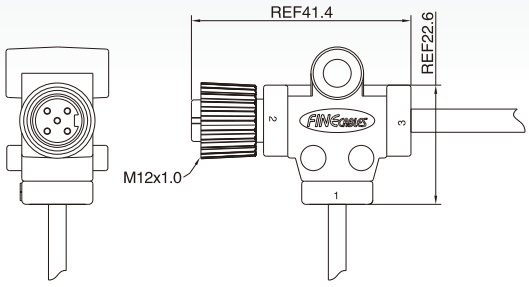
Remarks

• Please refer to Page 14 for products' part number encoding rule.

M12 Plastic T-Splitter, Female with Molded Cable

- Connector series: M12
- Gender: Female&Cable
- Coding: A, B, D
- Locking type: Plastic fix screw
- Mounting type: T type
- Part No.:MTC–F*P**–XXXXXX

* refers to coding type
** refers to pins number
X refers to cable specification





General information

Standard:	IEC 61076–2–101
Ambient temperature:	–20 ℃~ + 80℃
Connector insert:	TPU; PA
Connector contacts:	Brass with gold plated
Connector nut:	PA+GF
Connector overmold:	TPU
Seal/O–ring:	FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts	Available Coding			Rated current	Voltage		Wire gauge / size		Cable jacket	Cable ending & length
	A	B	D		A/C	D/C	AWG	mm²		
03 pins				4A	250V	250V	22AWG	0.34	PUR/PVC	Customized cable ending and length
04 pins				4A	250V	250V	22AWG	0.34		
05 pins				4A	60V	60V	22AWG	0.34		
08 pins				2A	30V	30V	24AWG	0.25		

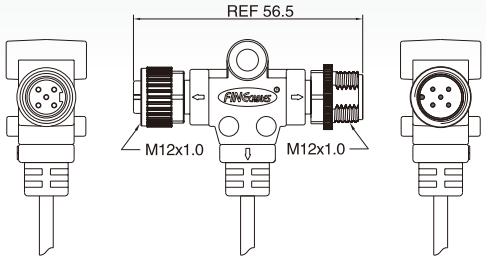
Remarks

• Please refer to Page 14 for products' part number encoding rule.

M12 T-Splitter, Male-Female, Molded Cable

- Connector series: M12
- Gender: Female & Male
- Coding: A, B, D
- Locking type: Fix screw
- Mounting type: T type
- Part No.:MTC–MF*HD**–XXXXXX

* refers to coding type
** refers to pins number
X refers to cable specification





General information

Standard:	IEC 61076–2–101
Ambient temperature:	–20℃~ + 80℃
Connector insert:	TPU; PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Zinc alloy with nickel plated
Connector overmold:	TPU
Seal/O–ring:	FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts	Available Coding			Rated current	Voltage		Wire gauge / size		Cable jacket	Cable ending & length
	A	B	D		A/C	D/C	AWG	mm²		
03 pins	Male / Female	Male / Female		4A	250V	250V	22AWG	0.34	PUR/PVC	Customized cable ending and length
04 pins	Male / Female	Male / Female	Male / Female	4A	250V	250V	22AWG	0.34		
05 pins	Male / Female	Male / Female		4A	60V	60V	22AWG	0.34		
08 pins	Male / Female			2A	30V	30V	24AWG	0.25		

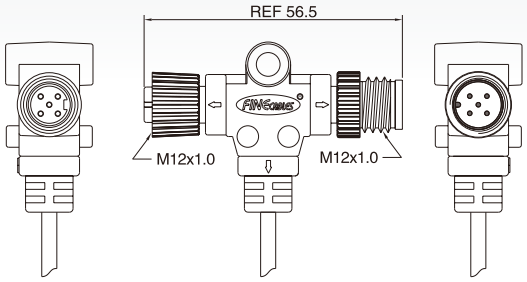
Remarks

• Please refer to Page 14 for products' part number encoding rule.

M12 Plastic T-Splitter, Male-Female, Molded Cable

- Connector series: M12
- Gender: Female & Male
- Coding: A, B, D
- Locking type: Plastic fix screw
- Mounting type: T type
- Part No.:MTC–MF*P**–XXXXXX

* refers to coding type
** refers to pins number
X refers to cable specification





General information

Standard:	IEC 61076–2–101
Ambient temperature:	–20 ℃~ + 80℃
Connector insert:	TPU; PA
Connector contacts:	Brass with gold plated
Connector screw/nut:	PA+GF
Connector overmold:	TPU
Seal/O–ring:	FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts	Available Coding			Rated current	Voltage		Wire gauge / size		Cable jacket	Cable ending & length
	A	B	D		A/C	D/C	AWG	mm²		
03 pins	Male / Female	Male / Female		4A	250V	250V	22AWG	0.34	PUR/PVC	Customized cable ending and length
04 pins	Male / Female	Male / Female	Male / Female	4A	250V	250V	22AWG	0.34		
05 pins	Male / Female	Male / Female		4A	60V	60V	22AWG	0.34		
08 pins	Male / Female			2A	30V	30V	24AWG	0.25		

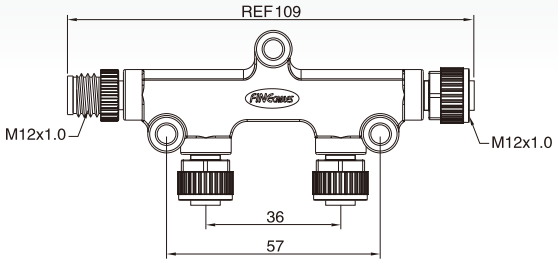
Remarks

- Please refer to Page 14 for products' part number encoding rule.

M12 Multi-Way 4T-Splitter, Male-3*Female

- Connector series: M12
- Gender: Female & Male
- Coding: A, B, D
- Locking type: Fix screw
- Mounting type: T type
- Part No.:M4T–*XX

* refers to coding type
XX refers to pins number





General information

Standard:	IEC 61076–2–101
Ambient temperature:	–20℃~ + 80℃
Connector insert:	TPU; PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Zinc alloy with nickel plated
Connector overmold:	TPU
Seal/O–ring:	FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts	Available Coding			Rated current	Voltage	
	A	B	D		A/C	D/C
03 pins	 Male Female	 Male Female		4A	250V	250V
04 pins	 Male Female	 Male Female	 Male Female	4A	250V	250V
05 pins	 Male Female	 Male Female		4A	60V	60V
08 pins	 Male Female			2A	30V	30V

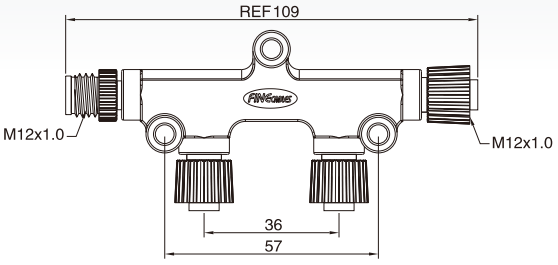
Remarks

• Please refer to Page 14 for products' part number encoding rule.

M12 Plastic Multi-Way 4T-Splitter, Male-3*Female

- Connector series: M12
- Gender: Female & Male
- Coding: A, B, D
- Locking type: Plastic fix screw
- Mounting type: T type
- Part No.:M4TP–*XX

* refers to coding type
XX refers to pins number





General information

Standard:	IEC 61076–2–101
Ambient temperature:	–20 ℃~ + 80℃
Connector insert:	TPU; PA
Connector contacts:	Brass with gold plated
Connector screw/nut:	PA+GF
Connector overmold:	TPU
Seal/O–ring:	FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts	Available Coding			Rated current	Voltage	
	A	B	D		A/C	D/C
03 pins	Male / Female	Male / Female		4A	250V	250V
04 pins	Male / Female	Male / Female	Male / Female	4A	250V	250V
05 pins	Male / Female	Male / Female		4A	60V	60V
08 pins	Male / Female			2A	30V	30V

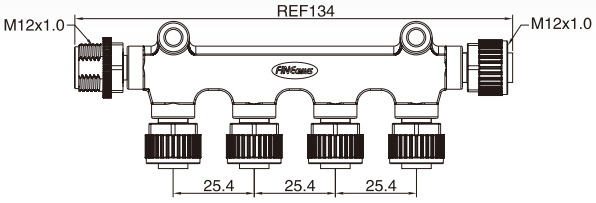
Remarks

• Please refer to Page 14 for products' part number encoding rule.

M12 Multi-Way 6T-Splitter, Male-5*Female

- Connector series: M12
- Gender: Female & Male
- Coding: A, B, D
- Locking type: Fix screw
- Mounting type: T type
- Part No.:M6T–*XX

* refers to coding type
XX refers to pins number





General information

Standard:	IEC 61076–2–101
Ambient temperature:	–20℃~ + 80℃
Connector insert:	TPU; PA
Connector contacts:	Brass with gold plated
Connector nut/screw:	Zinc alloy with nickel plated
Connector overmold:	TPU
Seal/O–ring:	FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts	Available Coding			Rated current	Voltage	
	A	B	D		A/C	D/C
03 pins	 Male Female	 Male Female		4A	250V	250V
04 pins	 Male Female	 Male Female	 Male Female	4A	250V	250V
05 pins	 Male Female	 Male Female		4A	60V	60V
08 pins	 Male Female			2A	30V	30V

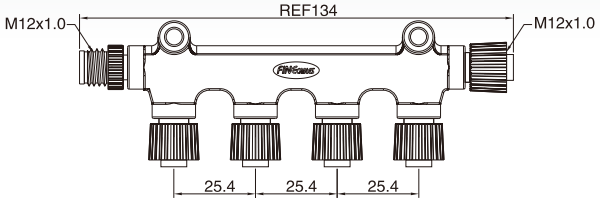
Remarks

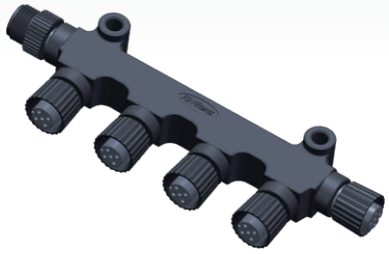
• Please refer to Page 14 for products' part number encoding rule.

M12 Plastic Multi-Way 6T-Splitter, Male-5*Female

- Connector series: M12
- Gender: Female & Male
- Coding: A, B, D
- Locking type: Plastic fix screw
- Mounting type: T type
- Part No.:M6TP–*XX

* refers to coding type
XX refers to pins number





General information

Standard:	IEC 61076–2–101
Ambient temperature:	–20 ℃~ + 80℃
Connector insert:	TPU; PA
Connector contacts:	Brass with gold plated
Connector screw/nut:	PA+GF
Connector overmold:	TPU
Seal/O–ring:	FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts	Available Coding			Rated current	Voltage	
	A	B	D		A/C	D/C
03 pins	Male / Female	Male / Female		4A	250V	250V
04 pins	Male / Female	Male / Female	Male / Female	4A	250V	250V
05 pins	Male / Female	Male / Female		4A	60V	60V
08 pins	Male / Female			2A	30V	30V

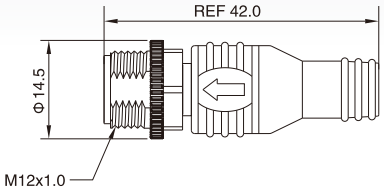
Remarks

• Please refer to Page 14 for products' part number encoding rule.

M12 Male Terminator

- Connector series: M12
- Gender: Male
- Coding: A, B, C, D
- Locking type: Fix screw
- Mounting type: Straight
- Part No.:MA12M*HD**ST–T

* refers to coding type
** refers to pins number



(Connection Diagram: Customized)



General information

Standard:	IEC 61076–2–101
Ambient temperature:	–25℃~ + 90℃
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector screw:	Zinc alloy with nickel plated
Connector overmold:	TPU
Seal/O–ring:	FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts	Available Coding				Rated current	Voltage	
	A	B	C	D		A/C	D/C
03 pins			 (2+PE)		4A	250V	250V
04 pins			 (3+PE)		4A	250V	250V
05 pins			 (4+PE)		4A 2A(C–code)	60V	60V
06 pins			 (5+PE)		2A	30V	30V
08 pins					2A	30V	30V
12 pins					1.5A	30V	30V
17 pins					1.5A	30V	30V

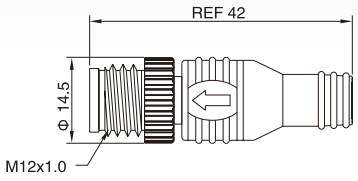
Remarks

• Please refer to Page 14 for products' part number encoding rule.

M12 Plastic Male Terminator

- Connector series: M12
- Gender: Male
- Coding: A, B, C, D
- Locking type: Plastic fix screw
- Mounting type: Straight
- Part No.:MA12M*P**ST–T

* refers to coding type
** refers to pins number



(Connection Diagram: Customized)



General information

Standard:	IEC 61076–2–101
Ambient temperature:	–25℃~ + 90℃
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector screw:	PA+GF
Connector overmold:	TPU
Seal/O–ring:	FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts	Available Coding				Rated current	Voltage	
	A	B	C	D		A/C	D/C
03 pins			 (2+PE)		4A	250V	250V
04 pins			 (3+PE)		4A	250V	250V
05 pins			 (4+PE)		4A 2A(C–code)	60V	60V
06 pins			 (5+PE)		2A	30V	30V
08 pins					2A	30V	30V
12 pins					1.5A	30V	30V

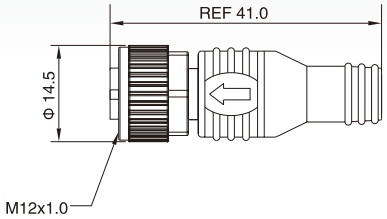
Remarks

• Please refer to Page 14 for products' part number encoding rule.

M12 Female Terminator

- Connector series: M12
- Gender: Female
- Coding: A, B, C, D
- Locking type: Fix screw
- Mounting type: Straight
- Part No.:MA12F*HD**ST–T

* refers to coding type
** refers to pins number



(Connection Diagram: Customized)



General information

Standard:	IEC 61076–2–101
Ambient temperature:	–25℃~ + 90℃
Connector insert:	TPU; PA
Connector contacts:	Brass with gold plated
Connector screw:	Zinc alloy with nickel plated
Connector overmold:	TPU
Seal/O–ring:	FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts	Available Coding				Rated current	Voltage	
	A	B	C	D		A/C	D/C
03 pins			 (2+PE)		4A	250V	250V
04 pins			 (3+PE)		4A	250V	250V
05 pins			 (4+PE)		4A 2A(C–code)	60V	60V
06 pins			 (5+PE)		2A	30V	30V
08 pins					2A	30V	30V
12 pins					1.5A	30V	30V
17 pins					1.5A	30V	30V

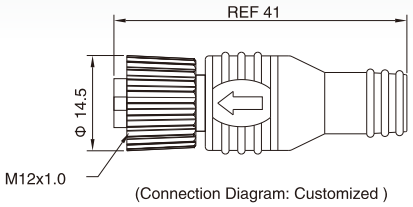
Remarks

• Please refer to Page 14 for products' part number encoding rule.

M12 Plastic Female Terminator

- Connector series: M12
- Gender: Female
- Locking type: Plastic fix screw
- Mounting type: Straight
- Part No.:MA12F*P**ST–T

** refers to pins number
X refers to cable specification



(Connection Diagram: Customized)



General information

Standard:	IEC 61076–2–101
Ambient temperature:	–25℃~ + 90℃
Connector insert:	TPU; PA
Connector contacts:	Brass with gold plated
Connector nut:	PA+GF
Connector overmold:	TPU
Seal/O–ring:	FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 5mΩ
Shielding:	Unavailable
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

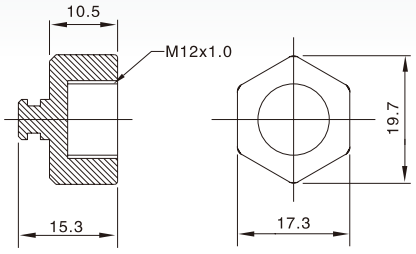
Contacts	Available Coding				Rated current	Voltage	
	A	B	C	D		A/C	D/C
03 pins			 (2+PE)		4A	250V	250V
04 pins			 (3+PE)		4A	250V	250V
05 pins			 (4+PE)		4A 2A(C–code)	60V	60V
06 pins			 (5+PE)		2A	30V	30V
08 pins					2A	30V	30V
12 pins					1.5A	30V	30V

Remarks

• Please refer to Page 14 for products' part number encoding rule.

M12 Protection Cap for Male Connector

- Cover series: M12
- Gender: for Male
- Locking type: Fix screw
- Part No.: PCNM12x1.0–0



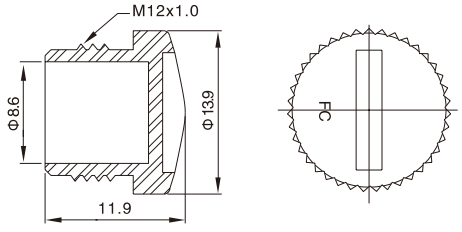


General information

Material:	PA+GF
O–ring:	FKM
Color:	Black
Degree of protection:	IP 67 in locked condition

M12 Protection Cap for Female Connector

- Cover series: M12
- Gender: for Female
- Locking type: Fix screw
- Part No.: PCSM12x1.0–1



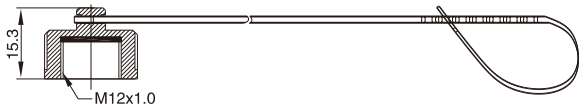


General information

Material:	PA+GF
Color:	Black
Degree of protection:	IP 67 in locked condition

M12 Protection Cap for Male Molded Cable Connector

- Cover series: M12
- Gender: for Male
- Locking type: Fix screw
- Part No.: PCNM12x1.0–3





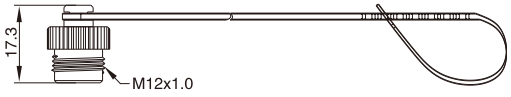
General information

Color:	Black
nut/screw:	PA+GF
Gasket:	FKM

Loop:	TPU
IP rating:	IP 67 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





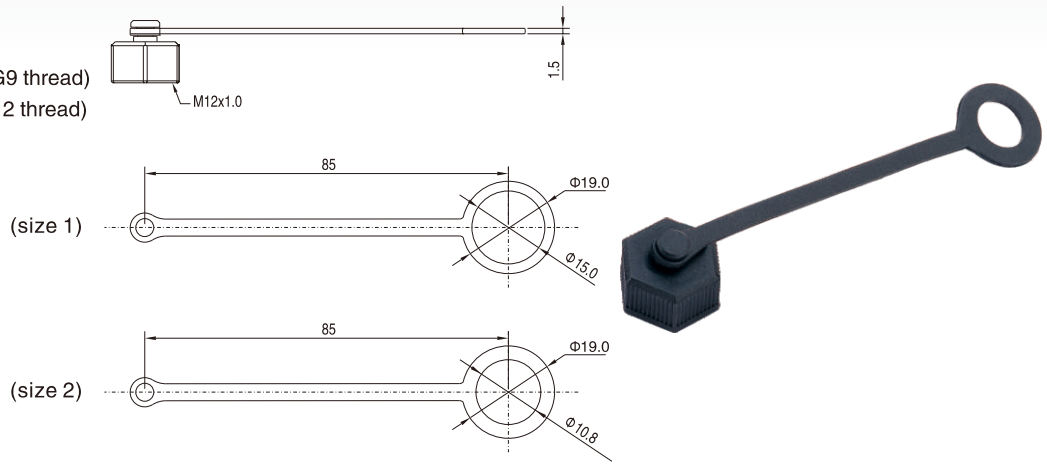
General information

Color:	Black
nut/screw:	PA+GF

Loop:	TPU
IP rating:	IP 67 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)

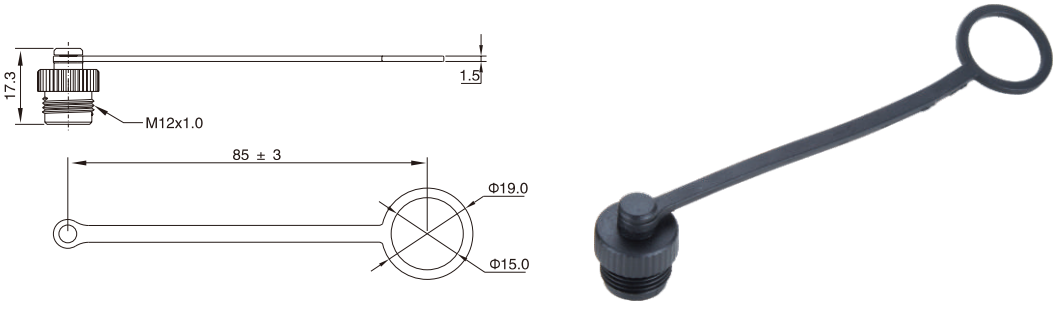


General information

Material:	PA+GF
O–ring:	FKM
Color:	Black
Degree of protection:	IP 67 in locked condition

M12 Protection Cap for Female Panel-mount Connector

- Cover series: M12
- Gender: for Female
- Locking type: Fix screw
- Part No.: PCSM12x1.0–3

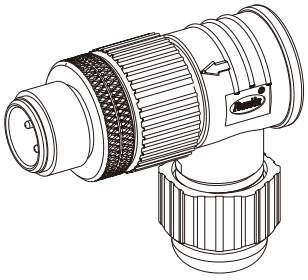


General information

Color:	Black
nut/screw:	PA+GF

Loop:	TPU
IP rating:	IP 67 in locked condition

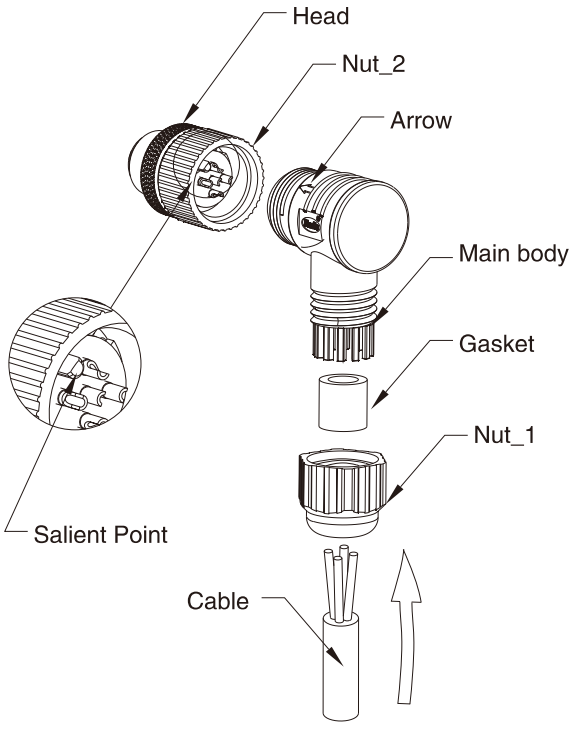
M12 Male Wirable Assembly Instruction



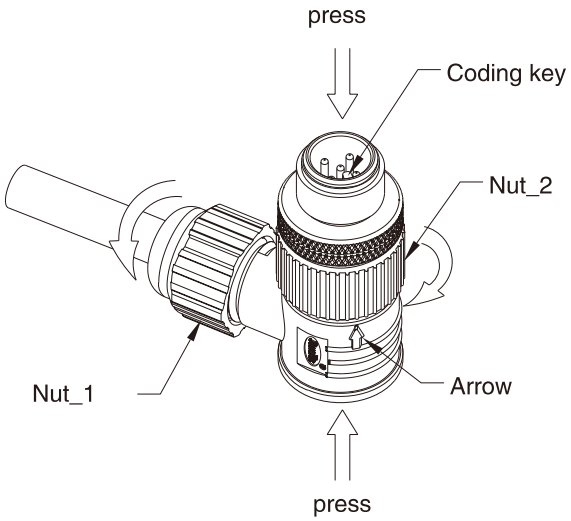
1) Put the cable through the nut, gasket and main body one by one;

2) And then solder the wires to the right pin of the head;

3) Make the salient point align with the arrow of main body, meanwhile pull the cable back untill the nut_2 contacted with main body;



Picture 1



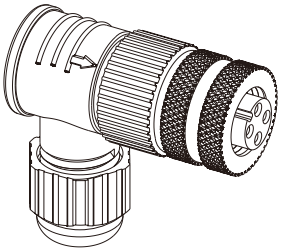
Picture 2

4) Press the connector lightly, like the picture 2. And the coding key will be aligned with the arrow, if not, just repeat step 3;

5) Pull back the cable lightly again after locking the nut_2 as tight as possible;

6) Push the gasket to the right position and lock the nut_1.

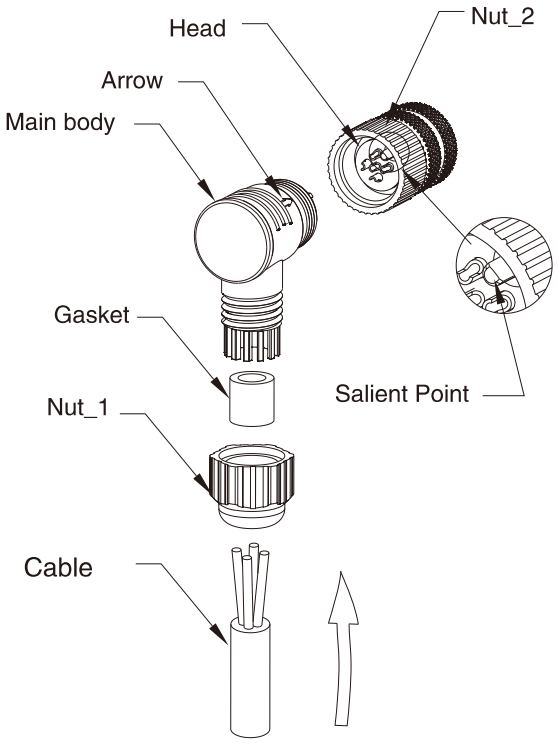
M12 Female Wirable Assembly Instruction



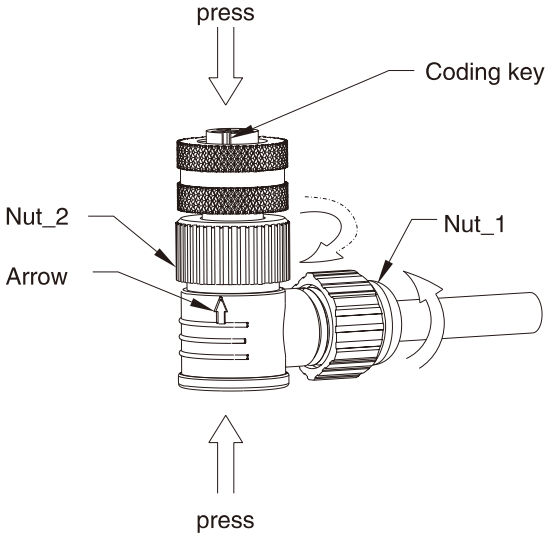
1) Put the cable through the nut, gasket and main body one by one;

2) And then solder the wires to the right pin of the head;

3) Make the salient point align with the arrow of main body, meanwhile pull the cable back untill the nut_2 contacted with main body;



Picture 1



Picture 2

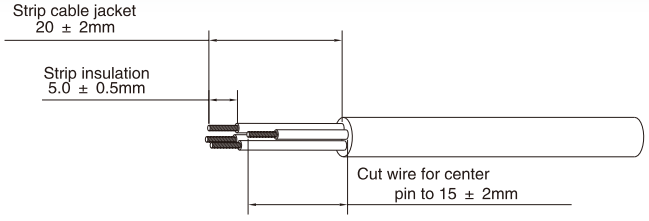
4) Press the connector lightly, like the picture 2. And the coding key will be aligned with the arrow, if not, just repeat step 3;

5) Pull back the cable lightly again after locking the nut_2 as tight as possible;

6) Push the gasket to the right position and lock the nut_1.

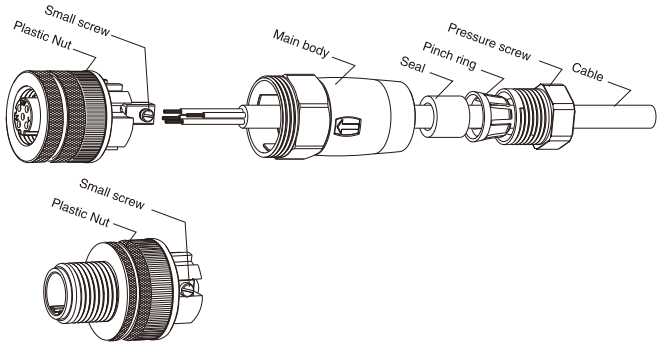
M12 Field Wirable Assembly with Screw Joint Instruction

Step 1

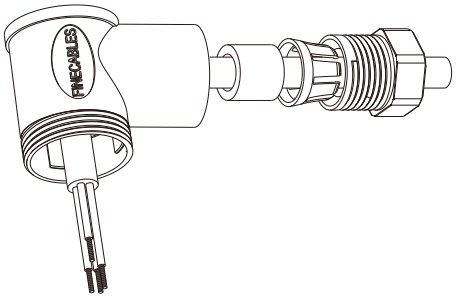


Step 2

Assemble all components on cable as following.



Right angled sketch

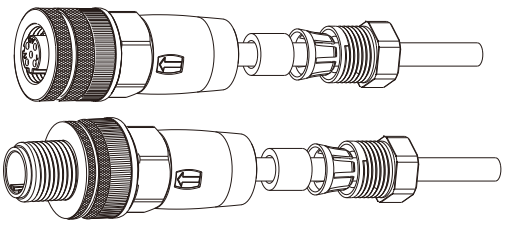


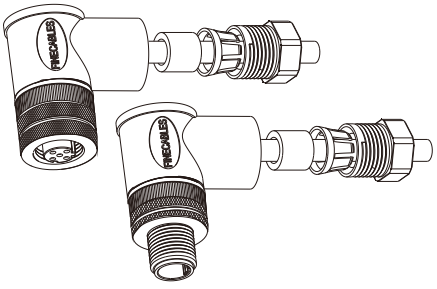
Step 3

Connect all wires to insert according to wirelist, then tighten all small screws. The torque for small screws is 0.2Nm.

Step 4

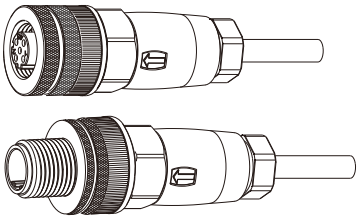
Assemble plastic nut to main body. Recommended torque:1.0Nm. (Note: The key inside the main body must go straight to slot of insert.)

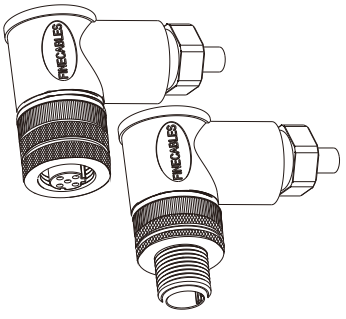




Step 5

Push the cable seal, pinch ring into the main body, then tighten the pressure screw into the body with recommended torque: 1.0Nm.

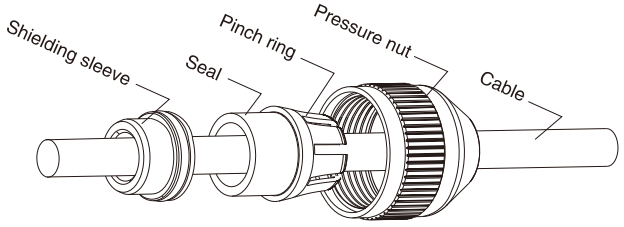




M12 Field Wirable Assembly with Screw Joint Instruction, Shield

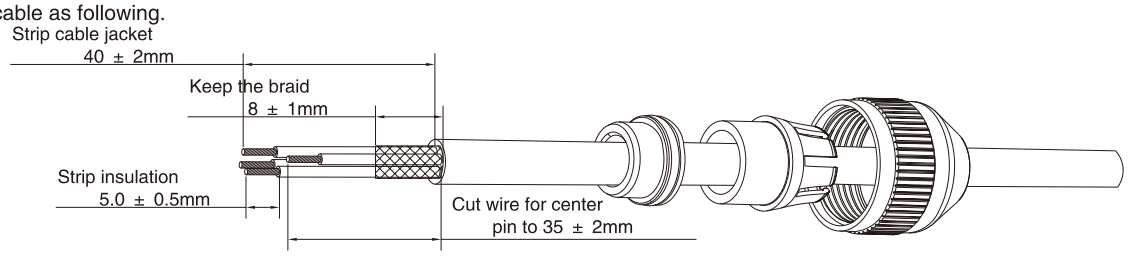
Step 1

Assemble all components on cable as following.



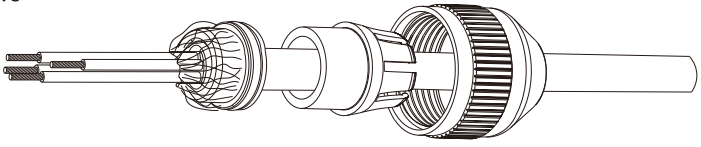
Step 2

Strip the cable as following.



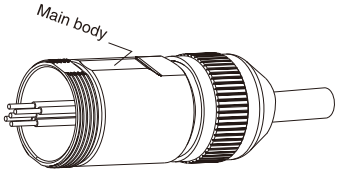
Step 3

Push the braid over the shielding sleeve



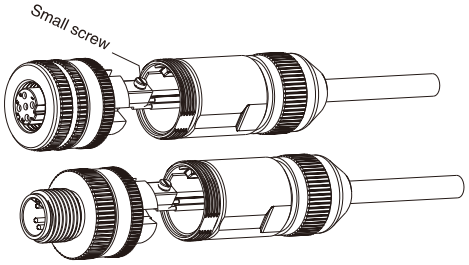
Step 4

Insert the cable in the main body and assemble the pressure nut tightly on the main body. Recommended torque:1.0Nm.



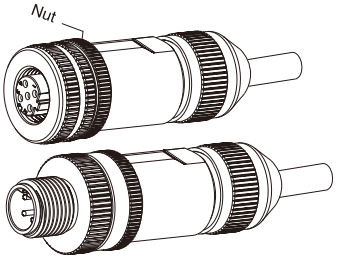
Step 5

Connect all wires to insert according to wirelist, then tighten all small screws. The torque for small screws is 0.2Nm.



Step 6

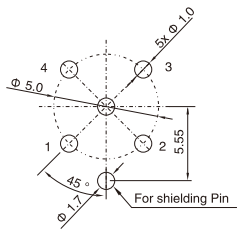
Insert the Female/male housing in the main body and assemble the nut to main body. Recommended torque:1.0Nm.
(Note: The key inside the main body must go straight to slot of insert.)



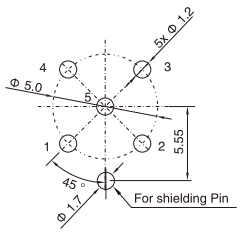
M12 PCB Layout & Panel cut-out

■ PCB Layout

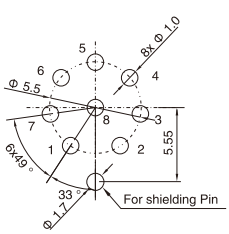
M12 Male Connector



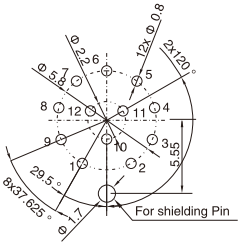
(Pin OD: Φ 0.8)
3P/4P/5P



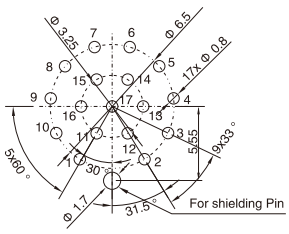
(Pin OD: Φ 1.0)
3P/4P/5P



(Pin OD: Φ 0.8)
8P



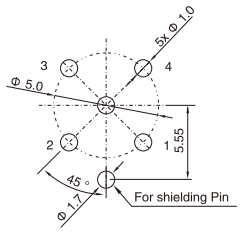
(Pin OD: Φ 0.6)
12P



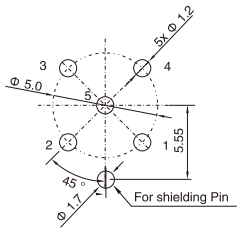
(Pin OD: Φ 0.6)
17P

Recommended PCB layout

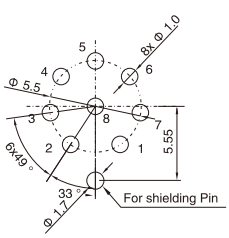
M12 Female Connector



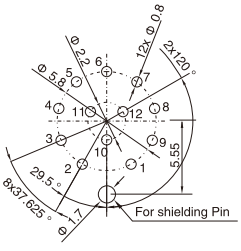
(Pin OD: Φ 0.8)
3P/4P/5P



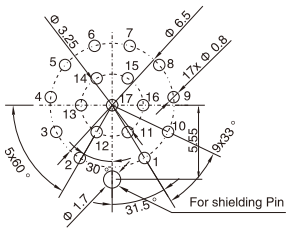
(Pin OD: Φ 1.0)
3P/4P/5P



(Pin OD: Φ 0.8)
8P



(Pin OD: Φ 0.6)
12P

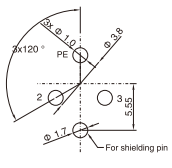


(Pin OD: Φ 0.6)
17P

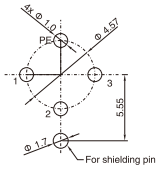
Recommended PCB layout

M12 C–Coding Connector

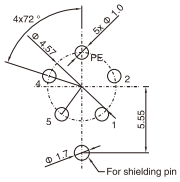
Male Connector



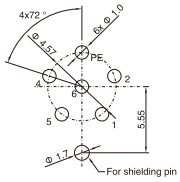
3Pin



4Pin

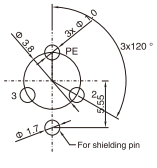


5Pin

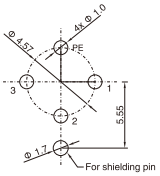


6Pin

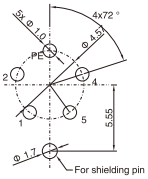
Female Connector



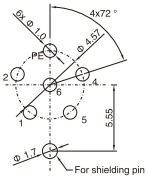
3Pin



4Pin

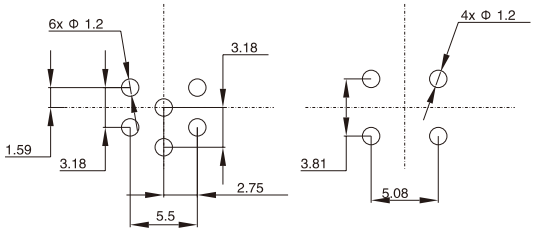


5Pin



6Pin

M12 Quick–lock Connector

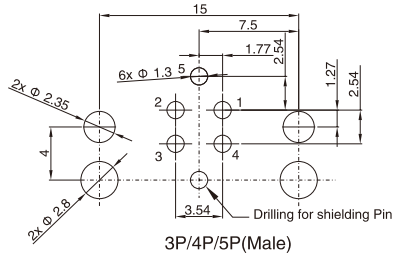


M12 PCB Layout & Panel cut-out

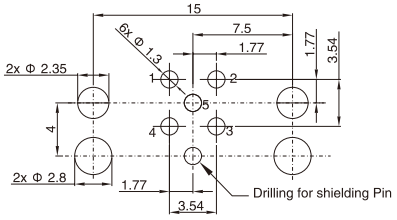
PCB Layout

M12 Right Angled Connector

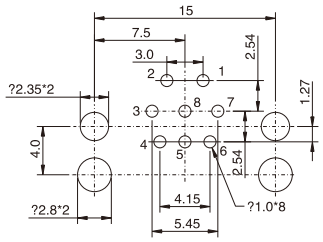
Recommended PCB layout



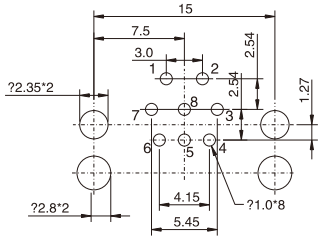
3P/4P/5P(Male)



3P/4P/5P(Female)



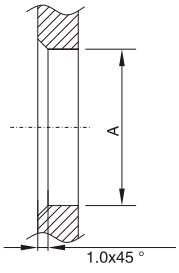
8P (male)



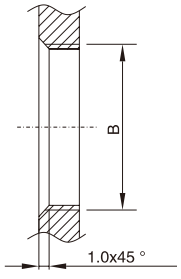
8P (female)

Panel cut–out

With bare hole

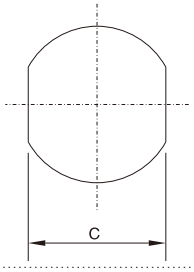


With thread to screw in

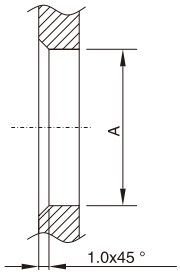


	A	B
M12	$12^{+0.1}_{-0}$	M12x1.0
M16	$16^{+0.1}_{-0}$	M16x1.5
PG9	$15.3^{+0.1}_{-0}$	PG9

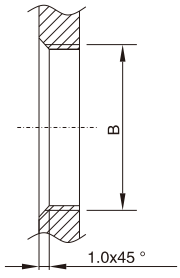
H–cutting



With bare hole

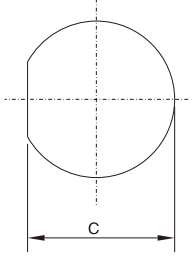


With thread to screw in

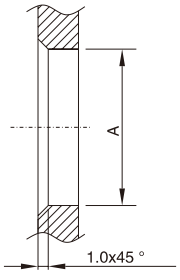


	A	B	C
M16	$16^{+0.1}_{-0}$	M16x1.5	$13.5^{+0.1}_{-0}$
PG9	$15.3^{+0.1}_{-0}$	PG9	$13.5^{+0.1}_{-0}$

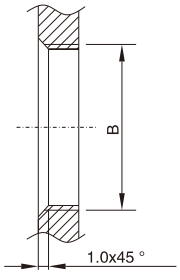
D–cutting



With bare hole



With thread to screw in



	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	$11.3^{+0.1}_{-0}$

Circular **sensor**
connectors






M16 cables & connectors

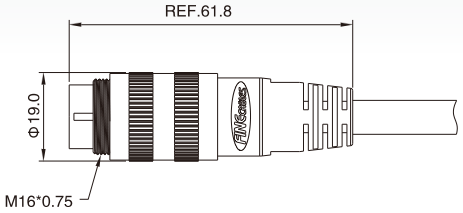
The M16 Series is an ideal choice for intensive industrial and commercial applications. Over–molded cable, assembly type and panel–mount receptacles are available in various styles and mounting methods. Quick–locking wiring assembly type is also available.

- Degree of protection IP 65/IP 67
- 2~9 poles are available
- TPU over molded or TPU plastic body
- Cable length customized, PUR and PVC cable options
- Anti–vibration locking screw design

M16 Male Molded Cable, Straight

- Connector series: M16
- Gender: Male
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MA16MAF**STXXXXXX

** refers to pins number
X refers to cable specification





General information

Standard:	IEC 61076–2–106
Ambient temperature:	–40℃ ~ +70℃(fixed installation)
	–25℃ ~ +70℃(flexible installation)
Connector insert:	BPT
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Coupling screw:	Brass with nickel plated

Insulation resistance:	⩾100 MΩ
Contact resistance:	⩽5 mΩ
Shielding:	Available/Unavailable
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts		Rated current	Voltage		Wire gauge / size		Cable jacket	Cable ending & length
			A/C	D/C	AWG	mm²		
02 pins		7A(40℃)	250V	32V	18AWG	0.75	PUR/PVC	Customized cable ending and length
03 pins		7A(40℃)	250V	32V	18AWG	0.75	PUR/PVC	
04 pins		6A(40℃)	250V	32V	18AWG	0.75	PUR/PVC	
05 pins–a		6A(40℃)	250V	32V	18AWG	0.75	PUR/PVC	
05 pins–b		6A(40℃)	60V	32V	18AWG	0.75	PUR/PVC	
06 pins		5A(40℃)	250V	32V	18AWG	0.75	PUR/PVC	
07 pins–a		5A(40℃)	125V	32V	18AWG	0.75	PUR/PVC	
07 pins–b		5A(40℃)	60V	32V	18AWG	0.75	PUR/PVC	
08 pins		5A(40℃)	60V	32V	18AWG	0.75	PUR/PVC	

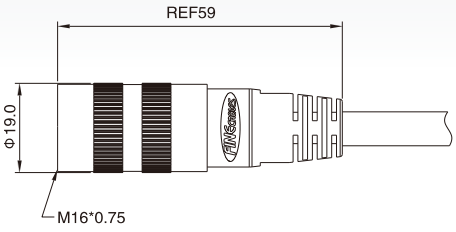
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 13 for products' part number encoding rule.

M16 Female Molded Cable,Straight

- Connector series: M16
- Gender: Female
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MA16FAF**STXXXXXX

** refers to pins number
X refers to cable specification





General information

Standard:	IEC 61076–2–106
Ambient temperature:	–40℃ ~ +70℃(fixed installation)
	–25℃ ~ +70℃(flexible installation)
Connector insert:	PBT
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Coupling screw:	Brass with nickel plated
Seal/ O–ring:	NBR/FKM

Insulation resistance:	⩾100 MΩ
Contact resistance:	⩽5 mΩ
Shielding:	Available/Unavailable
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts		Rated current	Voltage		Wire gauge / size		Cable jacket	Cable ending & length
			A/C	D/C	AWG	mm²		
02 pins		7A(40℃)	250V	32V	18AWG	0.75	PUR/PVC	Customized cable ending and length
03 pins		7A(40℃)	250V	32V	18AWG	0.75	PUR/PVC	
04 pins		6A(40℃)	250V	32V	18AWG	0.75	PUR/PVC	
05 pins–a		6A(40℃)	250V	32V	18AWG	0.75	PUR/PVC	
05 pins–b		6A(40℃)	60V	32V	18AWG	0.75	PUR/PVC	
06 pins		5A(40℃)	250V	32V	18AWG	0.75	PUR/PVC	
07 pins–a		5A(40℃)	125V	32V	18AWG	0.75	PUR/PVC	
07 pins–b		5A(40℃)	60V	32V	18AWG	0.75	PUR/PVC	
08 pins		5A(40℃)	60V	32V	18AWG	0.75	PUR/PVC	

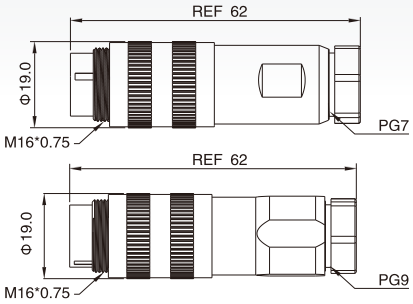
Remarks

- Please refer to Page 10 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 13 for products' part number encoding rule.

M16 Male Field Wirable Assembly, Straight, Solder

- Connector series: M16
- Gender: Male
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MB16MWSAFF**ST–X

** refers to pins number
Suitable cable Dia: 3=PG9
4=PG7





General information

Standard:	IEC 61076–2–106
Ambient temperature:	–25℃ ~ +70℃
Connector insert:	PBT
Connector contacts:	Brass with gold plated
Connector screw/body:	Brass with nickel plated
Coupling screw:	PA+GF
Seal/ O–ring:	NBR/ FKM

Insulation resistance:	⩾100 MΩ
Contact resistance:	⩽5 mΩ
Shielding:	Available/Unavailable
Suitable cable Dia:	PG7:4~6mm; PG9:6~8mm
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts		Contact termination	Rated current	Voltage		Wire gauge / size		Cable jacket	Cable ending & length
				A/C	D/C	AWG	mm²		
02 pins		Solder version	7A(40℃)	250V	32V	18AWG	0.75	PUR/PVC	Customized cable ending and length
03 pins		Solder version	7A(40℃)	250V	32V	18AWG	0.75	PUR/PVC	
04 pins		Solder version	6A(40℃)	250V	32V	18AWG	0.75	PUR/PVC	
05 pins–a		Solder version	6A(40℃)	250V	32V	18AWG	0.75	PUR/PVC	
05 pins–b		Solder version	6A(40℃)	60V	32V	18AWG	0.75	PUR/PVC	
06 pins		Solder version	5A(40℃)	250V	32V	18AWG	0.75	PUR/PVC	
07 pins–a		Solder version	5A(40℃)	125V	32V	18AWG	0.75	PUR/PVC	
07 pins–b		Solder version	5A(40℃)	60V	32V	18AWG	0.75	PUR/PVC	
08 pins		Solder version	5A(40℃)	60V	32V	18AWG	0.75	PUR/PVC	

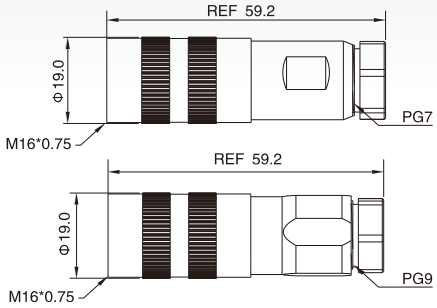
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 14 for products' part number encoding rule.

M16 Female Field Wirable Assembly, Straight, Solder

- Connector series: M16
- Gender: Female
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MB16FWSAFF**ST–X

** refers to pins number
Suitable cable Dia: 3=PG9
4=PG7





General information

Standard:	IEC 61076–2–106
Ambient temperature:	–25℃ ~ +70℃
Connector insert:	PBT
Connector contacts:	Brass with gold plated
Connector screw/body:	Brass with nickel plated
Coupling screw:	PA+GF
Seal/ O–ring:	NBR/ FKM

Insulation resistance:	⩾100 MΩ
Contact resistance:	⩽5 mΩ
Shielding:	Available/Unavailable
Suitable cable Dia:	PG7:4~6mm; PG9:6~8mm
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts		Contact termination	Rated current	Voltage		Wire gauge / size		Cable jacket	Cable ending & length
				A/C	D/C	AWG	mm²		
02 pins		Solder version	7A(40℃)	250V	32V	18AWG	0.75	PUR/PVC	Customized cable ending and length
03 pins		Solder version	7A(40℃)	250V	32V	18AWG	0.75	PUR/PVC	
04 pins		Solder version	6A(40℃)	250V	32V	18AWG	0.75	PUR/PVC	
05 pins–a		Solder version	6A(40℃)	250V	32V	18AWG	0.75	PUR/PVC	
05 pins–b		Solder version	6A(40℃)	60V	32V	18AWG	0.75	PUR/PVC	
06 pins		Solder version	5A(40℃)	250V	32V	18AWG	0.75	PUR/PVC	
07 pins–a		Solder version	5A(40℃)	125V	32V	18AWG	0.75	PUR/PVC	
07 pins–b		Solder version	5A(40℃)	60V	32V	18AWG	0.75	PUR/PVC	
08 pins		Solder version	5A(40℃)	60V	32V	18AWG	0.75	PUR/PVC	

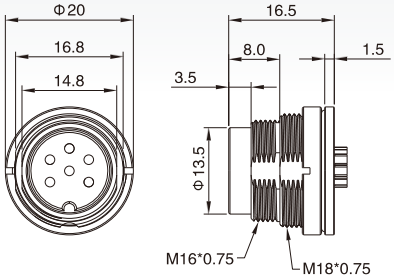
Remarks

- Please refer to Page 10 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 14 for products' part number encoding rule.

M16 Male Panel Mount, Die-cast Screw, Solder, Front fastened

- Connector series: M16
- Gender: Male
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB16MSAFHD**ST–6

** refers to pins number





General information

Standard:	IEC 61076–2–106
Ambient temperature:	–25℃ ~ +70℃
Connector insert:	PBT
Connector contacts:	Brass with gold plated
Connector screw/body:	Zinc alloy with nickel plated
Coupling screw:	Brass with nickel plated
Seal/ O–ring:	NBR/FKM

Insulation resistance:	⩾100 MΩ
Contact resistance:	⩽5 mΩ
Shielding:	Unavailable
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts		Contact termination	Rated current	Voltage		Wire gauge / size		Cable jacket	Cable ending & length
				A/C	D/C	AWG	mm²		
02 pins		Solder version	7A(40℃)	250V	32V	18AWG	0.75	PUR/PVC	Customized cable ending and length
03 pins		Solder version	7A(40℃)	250V	32V	18AWG	0.75	PUR/PVC	
04 pins		Solder version	6A(40℃)	250V	32V	18AWG	0.75	PUR/PVC	
05 pins–a		Solder version	6A(40℃)	250V	32V	18AWG	0.75	PUR/PVC	
05 pins–b		Solder version	6A(40℃)	60V	32V	18AWG	0.75	PUR/PVC	
06 pins		Solder version	5A(40℃)	250V	32V	18AWG	0.75	PUR/PVC	
07 pins–a		Solder version	5A(40℃)	125V	32V	18AWG	0.75	PUR/PVC	
07 pins–b		Solder version	5A(40℃)	60V	32V	18AWG	0.75	PUR/PVC	
08 pins		Solder version	5A(40℃)	60V	32V	18AWG	0.75	PUR/PVC	

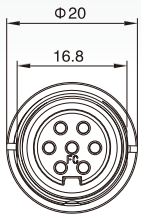
Remarks

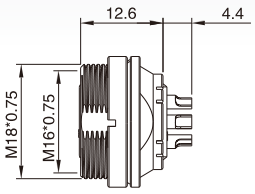
- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 14 for products' part number encoding rule.

M16 Female Panel Mount, Die-cast Screw, Solder, Front fastened

- Connector series: M16
- Gender: Female
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB16FSAFHD**ST–6

** refers to pins number







General information

Standard:	IEC 61076–2–106
Ambient temperature:	–25℃ ~ +70℃
Connector insert:	PBT
Connector contacts:	Brass with gold plated
Connector screw/body:	Zinc alloy with nickel plated
Coupling screw:	Brass with nickel plated
Seal/ O–ring:	NBR/FKM

Insulation resistance:	⩾100 MΩ
Contact resistance:	⩽5 mΩ
Shielding:	Unavailable
IP rating:	IP 65/IP 67 in locked condition

Electrical data & Mechanical data

Contacts		Contact termination	Rated current	Voltage		Wire gauge / size		Cable jacket	Cable ending & length
				A/C	D/C	AWG	mm²		
02 pins		Solder version	7A(40℃)	250V	32V	18AWG	0.75	PUR/PVC	Customized cable ending and length
03 pins		Solder version	7A(40℃)	250V	32V	18AWG	0.75	PUR/PVC	
04 pins		Solder version	6A(40℃)	250V	32V	18AWG	0.75	PUR/PVC	
05 pins–a		Solder version	6A(40℃)	250V	32V	18AWG	0.75	PUR/PVC	
05 pins–b		Solder version	6A(40℃)	60V	32V	18AWG	0.75	PUR/PVC	
06 pins		Solder version	5A(40℃)	250V	32V	18AWG	0.75	PUR/PVC	
07 pins–a		Solder version	5A(40℃)	125V	32V	18AWG	0.75	PUR/PVC	
07 pins–b		Solder version	5A(40℃)	60V	32V	18AWG	0.75	PUR/PVC	
08 pins		Solder version	5A(40℃)	60V	32V	18AWG	0.75	PUR/PVC	

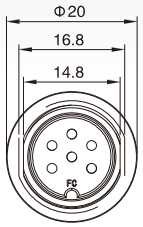
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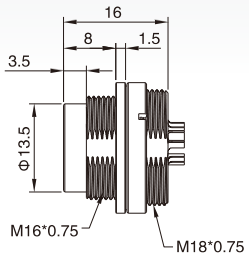
- Please refer to Page 10 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 14 for products' part number encoding rule.

M16 Male Panel Mount, Die-cast Screw, Solder, Rear fastened

- Connector series: M16
- Gender: Male
- Locking type: Fix screw
- Mounting type: Rear fastened
- Part No.: MB16FSAFHD**ST–6

** refers to pins number







General information

Standard:	IEC 61076–2–106
Ambient temperature:	–25℃ ~ +70℃
Connector insert:	PBT
Connector contacts:	Brass with gold plated
Connector screw/body:	Zinc alloy with nickel plated
Coupling screw:	Brass with nickel plated
Seal/ O–ring:	NBR/FKM

Insulation resistance:	⩾100 MΩ
Contact resistance:	⩽5 mΩ
Shielding:	Unavailable
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts		Contact termination	Rated current	Voltage		Wire gauge / size		Cable jacket	Cable ending & length
				A/C	D/C	AWG	mm²		
02 pins		Solder version	7A(40℃)	250V	32V	18AWG	0.75	PUR/PVC	Customized cable ending and length
03 pins		Solder version	7A(40℃)	250V	32V	18AWG	0.75	PUR/PVC	
04 pins		Solder version	6A(40℃)	250V	32V	18AWG	0.75	PUR/PVC	
05 pins–a		Solder version	6A(40℃)	250V	32V	18AWG	0.75	PUR/PVC	
05 pins–b		Solder version	6A(40℃)	60V	32V	18AWG	0.75	PUR/PVC	
06 pins		Solder version	5A(40℃)	250V	32V	18AWG	0.75	PUR/PVC	
07 pins–a		Solder version	5A(40℃)	125V	32V	18AWG	0.75	PUR/PVC	
07 pins–b		Solder version	5A(40℃)	60V	32V	18AWG	0.75	PUR/PVC	
08 pins		Solder version	5A(40℃)	60V	32V	18AWG	0.75	PUR/PVC	

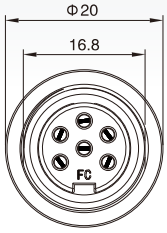
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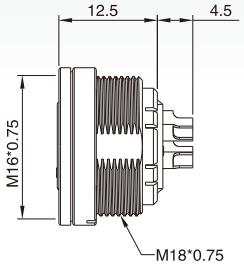
- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 14 for products' part number encoding rule.

M16 Female Panel Mount, Die-cast Screw, Solder, Rear fastened

- Connector series: M16
- Gender: Female
- Locking type: Fix screw
- Mounting type: Rear fastened
- Part No.: MB16FSAFHD**ST–6

** refers to pins number







General information

Standard:	IEC 61076–2–106
Ambient temperature:	–25℃ ~ +70℃
Connector insert:	PBT
Connector contacts:	Brass with gold plated
Connector screw/body:	Zinc alloy with nickel plated
Coupling screw:	Brass with nickel plated
Seal/ O–ring:	NBR/FKM

Insulation resistance:	⩾100 MΩ
Contact resistance:	⩽5 mΩ
Shielding:	Unavailable
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts		Contact termination	Rated current	Voltage		Wire gauge / size		Cable jacket	Cable ending & length
				A/C	D/C	AWG	mm²		
02 pins		Solder version	7A(40℃)	250V	32V	18AWG	0.75	PUR/PVC	Customized cable ending and length
03 pins		Solder version	7A(40℃)	250V	32V	18AWG	0.75	PUR/PVC	
04 pins		Solder version	6A(40℃)	250V	32V	18AWG	0.75	PUR/PVC	
05 pins–a		Solder version	6A(40℃)	250V	32V	18AWG	0.75	PUR/PVC	
05 pins–b		Solder version	6A(40℃)	60V	32V	18AWG	0.75	PUR/PVC	
06 pins		Solder version	5A(40℃)	250V	32V	18AWG	0.75	PUR/PVC	
07 pins–a		Solder version	5A(40℃)	125V	32V	18AWG	0.75	PUR/PVC	
07 pins–b		Solder version	5A(40℃)	60V	32V	18AWG	0.75	PUR/PVC	
08 pins		Solder version	5A(40℃)	60V	32V	18AWG	0.75	PUR/PVC	

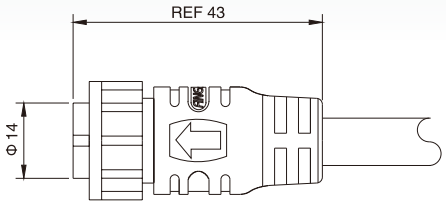
Remarks

- Please refer to Page 10 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 14 for products' part number encoding rule.

M16 Male Molded Cable, Straight, Quick-lock Type

- Connector series: M16
- Gender: Male
- Locking type: Quick–lock
- Mounting type: Straight
- Part No.: MA16MAQ**STXXXX34

** refers to pins number
X refers to cable specification





General information

Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–20℃ ~ +80℃(flexible installation)
Connector insert:	PA + GF
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Fix cap:	PA+GF
Seal / O–ring:	FKM

Insulation resistance:	⩾100 MΩ
Contact resistance:	⩽5 mΩ
Shielding:	Unavailable
IP rating:	IP 65/IP 67 in locked condition

Electrical data & Mechanical data

Contacts		Rated current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Cable ending & length
			A/C	D/C	AWG	mm^2			
08 pins		4A	250V	300V	22AWG	0.34	PUR / PVC	PVC	Customized cable ending and length
09 pins		4A	250V	300V	22AWG	0.34	PUR / PVC	PVC	

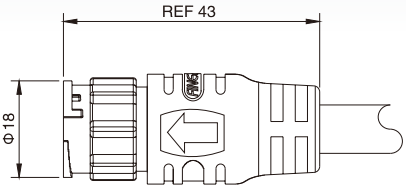
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm^2.
- Please refer to Page 13 for products' part number encoding rule.

M16 Female Molded Cable, Straight, Quick-lock Type

- Connector series: M16
- Gender: Female
- Locking type: Quick–lock
- Mounting type: Straight
- Part No.: MA16FAQ**STXXXX34

** refers to pins number
X refers to cable specification





General information

Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–20℃ ~ +80℃(flexible installation)
Connector insert:	PA+GF
Connector contacts:	Brass with gold plated
Connector overmold:	TPU

Insulation resistance:	⩾100 MΩ
Contact resistance:	⩽5 mΩ
Shielding:	Unavailable
IP rating:	IP 65/IP 67 in locked condition

Electrical data & Mechanical data

Contacts		Rated current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Cable ending & length
			A/C	D/C	AWG	mm²			
08 pins		4A	250V	300V	22AWG	0.34	PUR / PVC	PVC	Customized cable ending and length
09 pins		4A	250V	300V	22AWG	0.34	PUR / PVC	PVC	

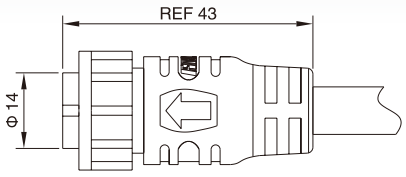
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 13 for products' part number encoding rule.

M16 Female Molded Cable, Straight, Quick-lock Type, With Fix-cap

- Connector series: M16
- Gender: Female
- Locking type: Quick–lock
- Mounting type: Straight
- Part No.: MA16FRQ**STXXXX34
  (Reversed polarity)

** refers to pins number
X refers to cable specification





General information

Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–20℃ ~ +80℃(flexible installation)
Connector insert:	PA+GF
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Fix cap:	PA+GF
O–ring:	FKM

Insulation resistance:	⩾100 MΩ
Contact resistance:	⩽5 mΩ
Shielding:	Unavailable
IP rating:	IP 65/IP 67 in locked condition

Electrical data & Mechanical data

Contacts		Rated current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Cable ending & length
			A/C	D/C	AWG	mm^2			
08 pins		4A	250V	300V	22AWG	0.34	PUR / PVC	PVC	Customized cable ending and length
09 pins		4A	250V	300V	22AWG	0.34	PUR / PVC	PVC	

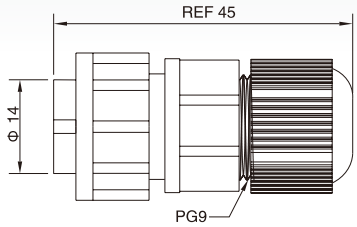
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm^2.
- Please refer to Page 13 for products' part number encoding rule.

M16 Male Field Wirable Assembly, Straight, Quick-lock Type, Solder

- Connector series: M16
- Gender: Male
- Locking type: Quick–lock
- Mounting type: Plastic mounting
- Part No.: MB16MAAQ**ST

** refers to pins number





General information

Ambient temperature:	–25℃ ~ +90℃
Connector insert/body:	PA + GF
Connector contacts:	Brass with gold plated
Fix cap:	PA+GF
O–ring:	FKM

Insulation resistance:	⩾100 MΩ
Contact resistance:	⩽5 mΩ
Shielding:	Unavailable
Suitable cable Dia:	5.0~8.5mm
IP rating:	IP 65/IP 67 in locked condition

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Cable ending & length
				A/C	D/C	AWG	mm²			
08 pins		Solder version	4A	250V	300V	22AWG	0.34	PUR / PVC	PVC	Customized cable ending and length
09 pins		Solder version	4A	250V	300V	22AWG	0.34	PUR / PVC	PVC	

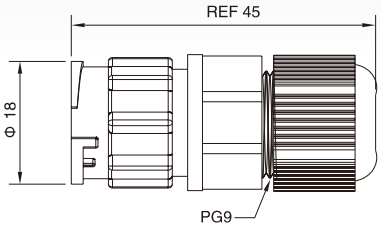
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 14 for products' part number encoding rule.

M16 Female Field Wirable Assembly, Straight, Quick-lock Type, Solder

- Connector series: M16
- Gender: Female
- Locking type: Quick–lock
- Mounting type: Plastic mounting
- Part No.: MB16FAAQ**ST

** refers to pins number





General information

Ambient temperature:	–25 ℃ ~ + 90 ℃
Connector insert/body:	PA + GF
Connector contacts:	Brass with gold plated
O–ring:	FKM

Insulation resistance:	⩾100 MΩ
Contact resistance:	⩽5 mΩ
Shielding:	Unavailable
Suitable cable Dia:	5.0~8.5mm
IP rating:	IP 65/IP 67 in locked condition

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Cable ending & length
				A/C	D/C	AWG	mm²			
08 pins		Solder version	4A	250V	300V	22AWG	0.34	PUR / PVC	PVC	Customized cable ending and length
09 pins		Solder version	4A	250V	300V	22AWG	0.34	PUR / PVC	PVC	

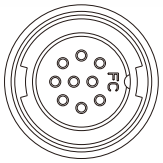
Remarks

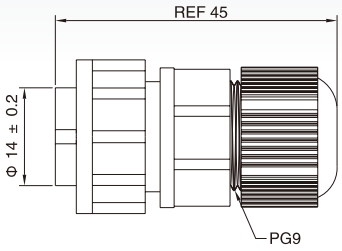
- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 14 for products' part number encoding rule.

M16 Female Field Assembly, Straight, Quick-lock Type, Solder, With Fix-cap

- Connector series: M16
- Gender: Female
- Locking type: Quick–lock
- Mounting type: Plastic mounting
- Part No.: MB16FRAMQ**ST
  (Reversed polarity)

** refers to pins number







General information

Ambient temperature:	–25℃ ~ +90℃
Connector insert/body:	PA + GF
Connector contacts:	Brass with gold plated
Fix cap:	PA+GF
O–ring:	FKM

Insulation resistance:	⩾100 MΩ
Contact resistance:	⩽5 mΩ
Shielding:	Unavailable
Suitable cable Dia:	5.0~8.5mm
IP rating:	IP 65/IP 67 in locked condition

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Cable ending & length
				A/C	D/C	AWG	mm²			
08 pins		Solder version	4A	250V	300V	22AWG	0.34	PUR / PVC	PVC	Customized cable ending and length
09 pins		Solder version	4A	250V	300V	22AWG	0.34	PUR / PVC	PVC	

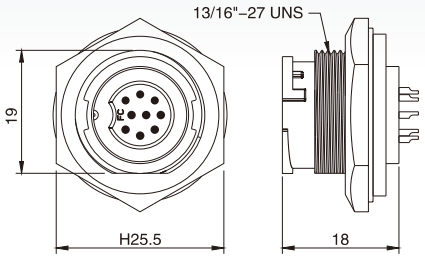
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 14 for products' part number encoding rule.

M16 Male Panel Mount, Straight, Quick-lock Type, Solder, Front fastened

- Connector series: M16
- Gender: Male
- Locking type: Quick–lock
- Mounting type: Front fastened
- Part No.: MB16MSAFQ**ST

** refers to pins number





General information

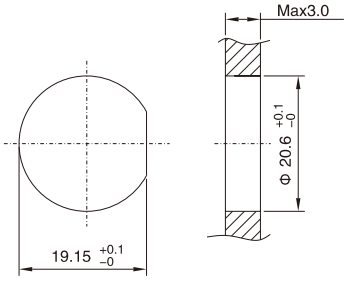
Ambient temperature:	–25 ℃ ~ + 90 ℃
Connector insert:	PA + GF
Connector contacts:	Brass with gold plated
Coupling nut/screw:	PA+GF
Seal / O–ring:	Epoxy resin / FKM

Insulation resistance:	⩾100 MΩ
Contact resistance:	⩽5 mΩ
Shielding:	Unavailable
IP rating:	IP 65/IP 67 in locked condition

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Wire gauge / size		Wire	Wire ending & length
				A/C	D/C	AWG	mm²		
08 pins		Solder version	4A	250V	300V	22AWG	0.34	PVC wire or customized	Customized wire ending and length
09 pins		Solder version	4A	250V	300V	22AWG	0.34		

Panel Cut–out Dimensions:



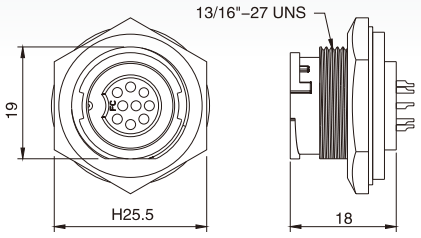
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 14 for products' part number encoding rule.

M16 Female Panel Mount, Quick-lock Type, Solder, Front fastened

- Connector series: M16
- Gender: Female
- Locking type: Quick–lock
- Mounting type: Front fastened
- Part No.: MB16FSAFQ**ST

** refers to pins number





General information

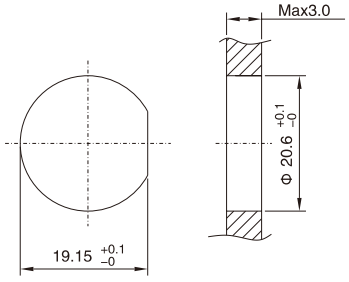
Ambient temperature:	–25 ℃ ~ + 90 ℃
Connector insert:	PA + GF
Connector contacts:	Brass with gold plated
Coupling nut/screw:	PA+GF
Seal / O–ring:	Epoxy resin / FKM

Insulation resistance:	⩾100 MΩ
Contact resistance:	⩽5 mΩ
Shielding:	Unavailable
IP rating:	IP 65/IP 67 in locked condition

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Wire gauge / size		Wire	Wire ending & length
				A/C	D/C	AWG	mm²		
08 pins		Solder version	4A	250V	300V	22AWG	0.34	PVC wire or customized	Customized wire ending and length
09 pins		Solder version	4A	250V	300V	22AWG	0.34		

Panel Cut–out Dimensions :



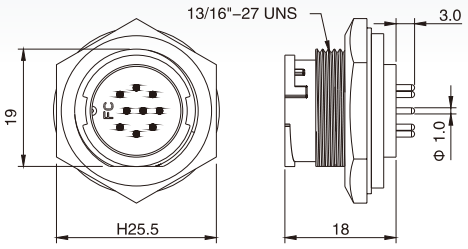
Remarks

- Please refer to Page 10 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 14 for products' part number encoding rule.

M16 Male Panel Mount, Quick-lock Type, PCB Type, Front fastened

- Connector series: M16
- Gender: Male
- Locking type: Quick–lock
- Mounting type: Front fastened
- Part No.: MB16MBAFQ**ST

** refers to pins number





General information

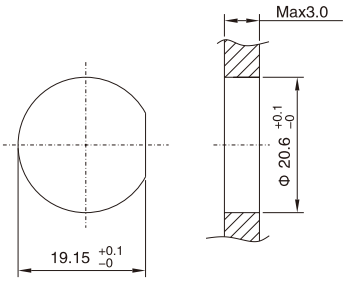
Ambient temperature:	–25 ℃ ~ + 90 ℃
Connector insert:	PA + GF
Connector contacts:	Brass with gold plated
Coupling nut/screw:	PA+GF
Seal / O–ring:	Epoxy resin / FKM

Insulation resistance:	⩾100 MΩ
Contact resistance:	⩽5 mΩ
Shielding:	Unavailable
IP rating:	IP 65/IP 67 in locked condition

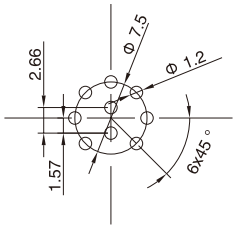
Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage	
				A/C	D/C
08 pins		PCB version	4A	250V	300V
09 pins		PCB version	4A	250V	300V

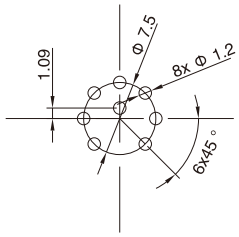
Panel Cut–out Dimensions:



PCB Layout:



9 Pin



8 Pin

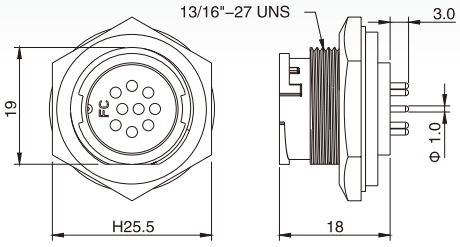
Remarks

• Please refer to Page 14 for products' part number encoding rule.

M16 Female Panel Mount, Quick-lock Type, PCB Type, Front fastened

- Connector series: M16
- Gender: Female
- Locking type: Quick–lock
- Mounting type: Front fastened
- Part No.: MB16FBAFQ**ST

** refers to pins number





General information

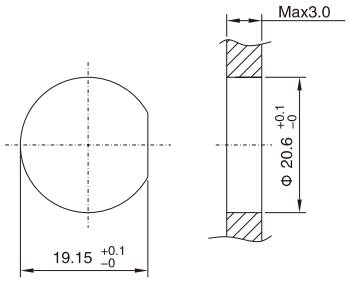
Ambient temperature:	–25 ℃ ~ + 90 ℃
Connector insert:	PA + GF
Connector contacts:	Brass with gold plated
Coupling nut/screw:	PA+GF
Seal / O–ring:	Epoxy resin / FKM

Insulation resistance:	⩾100 MΩ
Contact resistance:	⩽5 mΩ
Shielding:	Unavailable
IP rating:	IP 65/IP 67 in locked condition

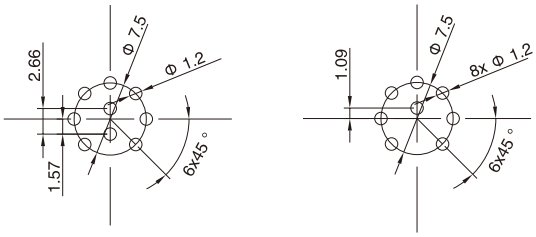
Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage	
				A/C	D/C
08 pins		PCB version	4A	250V	300V
09 pins		PCB version	4A	250V	300V

Panel Cut–out Dimensions:



PCB Layout:



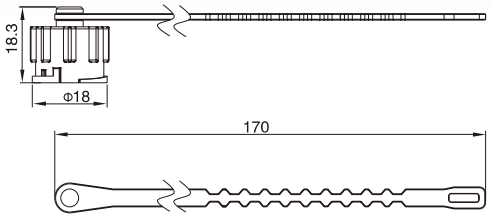
9 Pin　　8 Pin

Remarks

• Please refer to Page 14 for products' part number encoding rule.

M16 Protection Cap for Female With Fix-Cap Cable Connector

- Connector series: M16
- Gender: for Female
- Locking type: Quick–lock
- Part No.: PCSM16–1



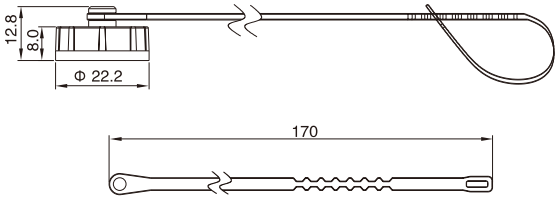


General information

Material:	PA+GF
Loop:	TPU
Color:	Black
Degree of protection:	IP 65/IP 67 in locked condition

M16 Protection Cap for Male/ Female Molded Cable Connector

- Connector series: M16
- Gender: for Male/Female
- Locking type: Quick–lock
- Part No.: PCNM16–1



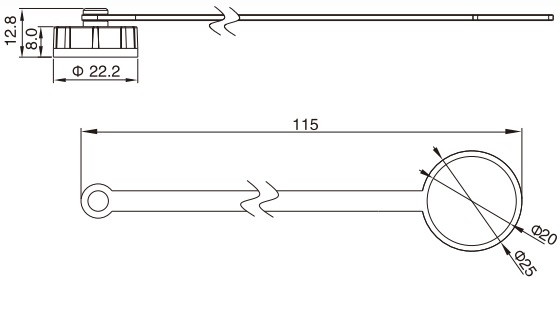


General information

Material:	PA+GF
Gasket:	FKM
Loop:	TPU
Color:	Black
Degree of protection:	IP 65/IP 67 in locked condition

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:	IP 65/IP 67 in locked condition

Circular **sensor**
connectors





M20 cables & connectors

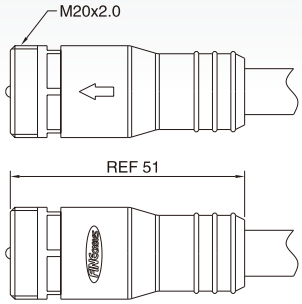
With our intelligence and endeavor, the M20 series has been successfully developed, for the fields of intelligentized lighting, stage lighting control system, architectural and LED series. This series is devided into straight overmolding and panel–mount types. Their 3+5 hybrid–pole design is able to ensure signal and power transmission simultaneously. Fix screw locking system can meet IP67 rating in fully locked condition.

- IP67 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 Male Molded Cable, Straight

- Connector series: M20
- Gender: Male
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MA20MAP3+5STXXXXXX

X refers to cable specification





General information

Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–20℃ ~ +80℃(flexible installation)
Connector insert:	PBT
Connector contacts:	Brass with gold plated
Insulation resistance:	⩾100 MΩ
Contact resistance:	⩽5 mΩ
Shielding:	Unavailable
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Wire gauge / size		Wire insulation	Cable ending & length
				A/C	D/C	AWG	mm²		
3+5Pins (3+5)		Solder version	4A (power 5Pins) 13A (power 3Pins)	300V	300V	26~22AWG	0.14~0.3	PVC	Customized cable ending and length
						18~14AWG	0.5~2.5		

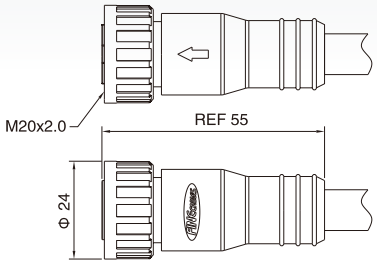
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 13 for products' part number encoding rule.

M20 Female Molded Cable, Straight

- Connector series: M20
- Gender: Female
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MA20FAP3+5STXXXXXX

X refers to cable specification





General information

Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–20℃ ~ +80℃(flexible installation)
Connector insert:	PBT
Connector contacts:	Brass with gold plated
Coupling nut/screw:	ASA
Seal / O–ring:	Silicone

Insulation resistance:	⩾100 MΩ
Contact resistance:	⩽5 mΩ
Shielding:	Unavailable
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

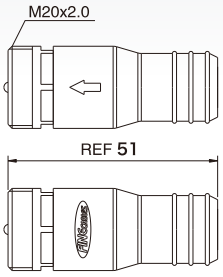
Contacts		Contacts termination	Rated current	Voltage		Wire gauge / size		Wire insulation	Cable ending & length
				A/C	D/C	AWG	mm^2		
3+5Pins (3+5)		Solder version	4A (signal 5Pins) 13A (power 3Pins)	300V	300V	26~22AWG	0.14~0.3	PVC	Customized cable ending and length
						18~14AWG	0.5~2.5		

Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm^2.
- Please refer to Page 13 for products' part number encoding rule.

M20 Plastic Male Terminator

- Connector series: M20
- Gender: Male
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MA20MAP3+5ST–T





General information

Ambient temperature:	–25℃ ~ +90℃
Connector insert:	PBT
Connector contacts:	Brass with gold plated

Insulation resistance:	⩾100 MΩ
Contact resistance:	⩽5 mΩ
Shielding:	Unavailable
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

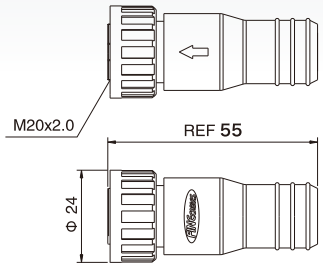
Contacts		Contacts termination	Rated current	Voltage	
				A/C	D/C
3+5Pins (3+5)		Solder version	4A (signal 5Pins) 13A (power 3Pins)	300V	300V

Remarks

• Please refer to Page 13 for products' part number encoding rule.

M20 Plastic Female Terminator

- Connector series: M20
- Gender: Female
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MA20FAP3+5ST–T





General information

Ambient temperature:	–25℃ ~ +90℃
Connector insert:	PBT
Connector contacts:	Brass with gold plated
Coupling nut/screw:	ASA
Seal/O–ring:	Silicone

Insulation resistance:	⩾100 MΩ
Contact resistance:	⩽5 mΩ
Shielding:	Unavailable
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

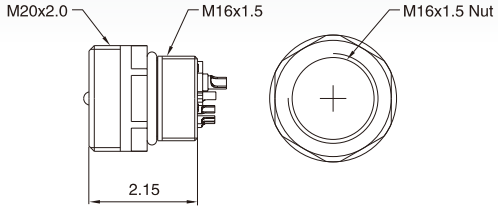
Contacts		Contacts termination	Rated current	Voltage	
				A/C	D/C
3+5Pins (3+5)		Solder version	4A (signal 5Pins) 13A (power 3Pins)	300V	300V

Remarks

• Please refer to Page 13 for products' part number encoding rule.

M20 Male Panel Mount, Solder, Rear Fastened

- Connector series: M20
- Gender: Male
- Locking type: Fix screw
- Mounting type: Rear fastened
- Part No.: MB20MSARP3+5ST–2





General information

Ambient temperature:	–25℃ ~ +125℃
Connector insert:	PBT
Connector contacts:	Brass with gold plated
Coupling nut/screw:	PA66
Seal / O–ring:	Silicone

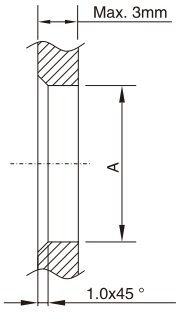
Insulation resistance:	⩾100 MΩ
Contact resistance:	⩽5 mΩ
Shielding:	Unavailable
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

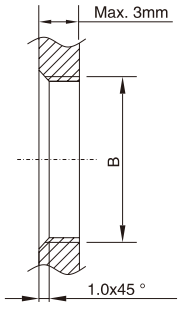
Contacts		Contacts termination	Rated current	Voltage		Wire gauge / size		Wire insulation	Cable ending & length
				A/C	D/C	AWG	mm²		
3+5Pins (3+5)		Solder version	4A (signal 5Pins) 13A (power 3Pins)	300V	300V	26~22AWG	0.14~0.3	PVC	Customized cable ending and length
						18~14AWG	0.5~2.5		

Panel Cut–out Dimensions:

With bare hole



With thread to screw in



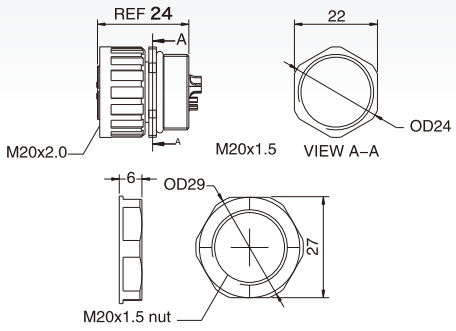
	A	B
M16	$16^{+0.1}_{-0}$	M16x1.5

Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 14 for products' part number encoding rule.

M20 Female Panel Mount, Solder, Rear fastened

- Connector series: M20
- Gender: Female
- Locking type: Fix screw
- Mounting type: Rear fastened
- Part No.: MB20FSARP3+5ST–5





General information

Ambient temperature:	–25℃ ~ +125℃
Connector insert:	PBT
Connector contacts:	Brass with gold plated
Coupling nut/screw:	ASA
Seal/O–ring:	Silicone

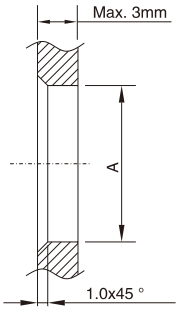
Insulation resistance:	⩾100 MΩ
Contact resistance:	⩽5 mΩ
Shielding:	Unavailable
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

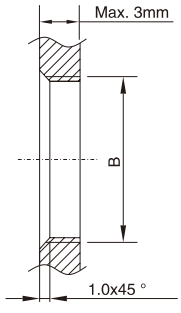
Contacts		Contacts termination	Rated current	Voltage		Wire gauge / size		Wire insulation	Cable ending & length
				A/C	D/C	AWG	mm²		
3+5Pins (3+5)		Solder version	4A (signal 5Pins) 13A (power 3Pins)	300V	300V	26~22AWG	0.14~0.3	PVC	Customized cable ending and length
						18~14AWG	0.5~2.5		

Panel Cut–out Dimensions:

With bare hole



With thread to screw in



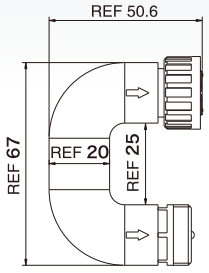
	A	B
M20	$20^{+0.1}_{-0}$	M20x1.5

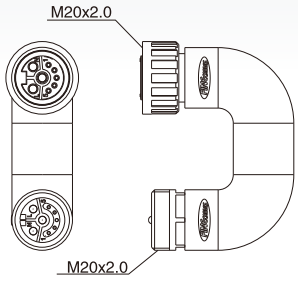
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 14 for products' part number encoding rule.

M20 Plastic U-Adapter, Male-Female

- Connector series: M20
- Gender: Female & Male
- Locking type: Fix screw
- Mounting type: U type
- Part No.: MB20UP–MF3+5







General information

Ambient temperature:	–20℃ ~ +125℃
Connector insert:	PBT
Connector contacts:	Brass with gold plated
Coupling nut/screw:	ASA
Seal/O–ring:	Silicone

Insulation resistance:	⩾100 MΩ
Contact resistance:	⩽5 mΩ
Shielding:	Unavailable
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts	Contacts termination	Rated current	Voltage	
			A/C	D/C
3+5Pins (3+5)  Male  Female	Solder version	4A (signal 5Pins) 13A (power 3Pins)	300V	300V

Remarks

• Please refer to Page 14 for products' part number encoding rule.

Circular **sensor**
connectors






Mini-change (7/8") cables & connectors

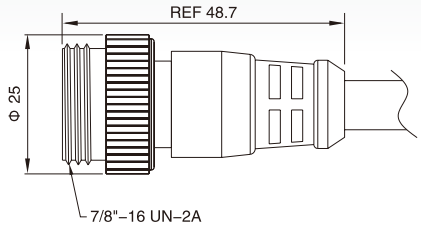
The 7/8" mini–change connectors are mating compatible with industry mini–change connectors, and are designed for both signal and high–electricity current applications. The connection is sealed to an IP67 rating, with molded cable and panel receptacles available. Contacts are gold–plated, with a stainless steel locking sleeve also available as an option.

- Degree of protection IP 67
- 3, 4, 5, 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") Male Molded Cable, Straight

- Connector series: Mini–change(7/8")
- Gender: Male
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MINI–C**MST–M–XXXXXX

** refers to pins number
X refers to cable specification





General information

Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–20℃ ~ +80℃(flexible installation)
Connector insert:	TPU
Connector contacts:	Brass with gold plating
Connector overmold:	TPU
Coupling nut/screw:	Aluminium anodized black

Insulation resistance:	⩾100 MΩ
Contact resistance:	⩽5 mΩ
Shielding:	Unavailable
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts		Rated current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Cable ending & length
			A/C	D/C	AWG	mm²			
03 pins		13A	300V	300V	18AWG	1.0	PUR / PVC	PVC	Customized cable ending and length
04 pins		13A	300V	300V	18AWG	1.0			
05 pins		8A	300V	300V	20AWG	0.5			
3+7 pins		4A (signal 7Pins) 8A (power 3Pins)	250V	250V	20~24AWG	0.25~0.5			
16 pins		4A	250V	250V	24AWG	0.25			

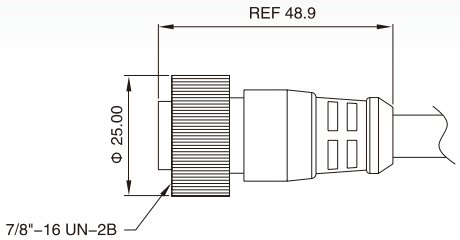
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 15 for products' part number encoding rule.

Mini-change(7/8") Female Molded Cable, Straight

- Connector series: Mini–change(7/8")
- Gender: Female
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MINI–C**FST–M–XXXXXX

** refers to pins number
X refers to cable specification



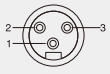
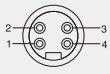
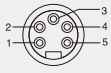


General information

Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–20℃ ~ +80℃(flexible installation)
Connector insert:	TPU
Connector contacts:	Brass with gold plating
Connector overmold:	TPU
Coupling nut/screw:	Aluminium anodized black
Seal/O–ring:	FKM

Insulation resistance:	⩾100 MΩ
Contact resistance:	⩽5 mΩ
Shielding:	Unavailable
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts		Rated current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Cable ending & length
			A/C	D/C	AWG	mm^2			
03 pins		13A	300V	300V	18AWG	1.0	PUR / PVC	PVC	Customized cable ending and length
04 pins		13A	300V	300V	18AWG	1.0			
05 pins		8A	300V	300V	20AWG	0.5			
3+7 pins		4A (signal 7Pins) 8A (power 3Pins)	250V	250V	20~24AWG	0.25~0.5			
16 pins		4A	250V	250V	24AWG	0.25			

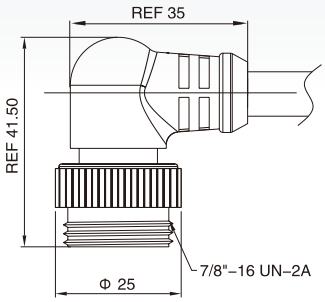
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm^2.
- Please refer to Page 15 for products' part number encoding rule.

Mini-change(7/8") Male Molded Cable, Angled

- Connector series: Mini–change(7/8")
- Gender: Male
- Locking type: Fix screw
- Mounting type: Right angled
- Part No.: MINI–C**MRA–M–XXXXXX

** refers to pins number
X refers to cable specification





General information

Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–20℃ ~ +80℃(flexible installation)
Connector insert:	TPU
Connector contacts:	Brass with gold plating
Connector overmold:	TPU
Coupling nut/screw:	Aluminium anodized black

Insulation resistance:	⩾100 MΩ
Contact resistance:	⩽5 mΩ
Shielding:	Unavailable
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts		Rated current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Cable ending & length
			A/C	D/C	AWG	mm²			
03 pins		13A	300V	300V	18AWG	1.0	PUR / PVC	PVC	Customized cable ending and length
04 pins		13A	300V	300V	18AWG	1.0			
05 pins		8A	300V	300V	20AWG	0.5			
16 pins		4A	250V	250V	24AWG	0.25			

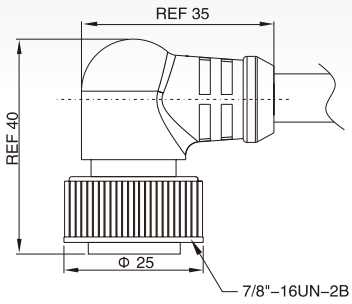
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 15 for products' part number encoding rule.

Mini-change(7/8") Female Molded Cable, Angled

- Connector series: Mini–change(7/8")
- Gender: Female
- Locking type: Fix screw
- Mounting type: Right angled
- Part No.: MINI–C**FRA–M–XXXXXX

** refers to pins number
X refers to cable specification



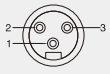
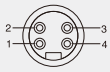
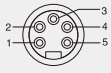


General information

Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–20℃ ~ +80℃(flexible installation)
Connector insert:	TPU
Connector contacts:	Brass with gold plating
Connector overmold:	TPU
Coupling nut/screw:	Aluminium anodized black
Seal/O–ring:	FKM

Insulation resistance:	⩾100 MΩ
Contact resistance:	⩽5 mΩ
Shielding:	Unavailable
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts		Rated current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Cable ending & length
			A/C	D/C	AWG	mm^2			
03 pins		13A	300V	300V	18AWG	1.0	PUR / PVC	PVC	Customized cable ending and length
04 pins		13A	300V	300V	18AWG	1.0			
05 pins		8A	300V	300V	20AWG	0.5			
16 pins		4A	250V	250V	24AWG	0.25			

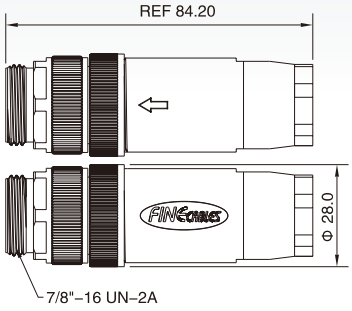
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm^2.
- Please refer to Page 15 for products' part number encoding rule.

Mini-change(7/8") Male Field Wirable Assembly, Straight, Screw joint

- Connector series: Mini–change(7/8")
- Gender: Male
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MINI–C**MST–SJF–A
  MINI–C**MST–SJF–B

** refers to pins number
– suitable cable Dia: A:6~8mm
B:8~10mm





General information

Ambient temperature:	–25℃ ~ + 90℃
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector screw:	Aluminium anodized black
Connector body:	PA+GF

Insulation resistance:	⩾ 100MΩ
Contact resistance :	⩽ 5mΩ
Shielding:	Unavailable
Suitable cable Dia:	A: 6.0~8.0mm; B: 8.0~10.0mm
IP rating:	IP 67 in locked condition
Assembly Instruction:	Refer to page 292

Electrical data & Mechanical data

Contacts	Contacts termination	Rated current	Voltage		Wire gauge / size		Wire	Cable ending & length
			A/C	D/C	AWG	mm^2		
03 pins 	Screw joint	13A	300V	300V	18AWG	1.0	PVC wire or customized	Customized cable ending and length
04 pins 	Screw joint	13A	300V	300V	18AWG	1.0		
05 pins 	Screw joint	8A	300V	300V	20AWG	0.5		

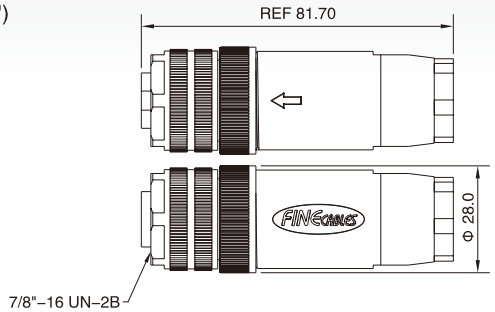
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm^2.
- Please refer to Page 15 for products' part number encoding rule.

Mini-change(7/8") Female Field Wirable Assembly, Straight, Screw joint

- Connector series: Mini–change(7/8")
- Gender: Female
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MINI–C**FST–SJF–A
  MINI–C**FST–SJF–B

** refers to pins number
– suitable cable Dia: A:6~8mm
B:8~10mm



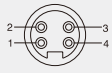
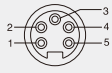


General information

Ambient temperature:	–25℃ ~ + 90℃
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector nut:	Aluminium anodized black
Connector body:	PA+GF
Seal / O–ring:	FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance :	⩽ 5mΩ
Shielding:	Unavailable
Suitable cable Dia:	A: 6.0~8.0mm; B: 8.0~10.0mm
IP rating:	IP 67 in locked condition
Assembly Instruction:	Refer to page 292

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Wire gauge / size		Wire	Cable ending & length
				A/C	D/C	AWG	mm^2		
03 pins		Screw joint	13A	300V	300V	18AWG	1.0	PVC wire or customized	Customized cable ending and length
04 pins		Screw joint	13A	300V	300V	18AWG	1.0		
05 pins		Screw joint	8A	300V	300V	20AWG	0.5		

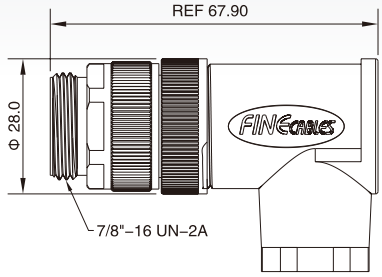
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm^2.
- Please refer to Page 15 for products' part number encoding rule.

Mini-change(7/8") Male Field Wirable Assembly, Angled, Screw joint

- Connector series: Mini–change(7/8")
- Gender: Male
- Locking type: Fix screw
- Mounting type: Right angled
- Part No.: MINI–C**MRA–SJF–A
  MINI–C**MRA–SJF–B

** refers to pins number
– suitable cable Dia: A:6~8mm
B:8~10mm





General information

Ambient temperature:	–25℃ ~ + 90℃
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector screw:	Aluminium anodized black
Connector body:	PA+GF

Insulation resistance:	⩾ 100MΩ
Contact resistance :	⩽ 5mΩ
Shielding:	Unavailable
Suitable cable Dia:	A: 6.0~8.0mm; B: 8.0~10.0mm
IP rating:	IP 67 in locked condition
Assembly Instruction:	Refer to page 292

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Wire gauge / size		Wire	Cable ending & length
				A/C	D/C	AWG	mm^2		
03 pins		Screw joint	13A	300V	300V	18AWG	1.0	PVC wire or customized	Customized cable ending and length
04 pins		Screw joint	13A	300V	300V	18AWG	1.0		
05 pins		Screw joint	8A	300V	300V	20AWG	0.5		

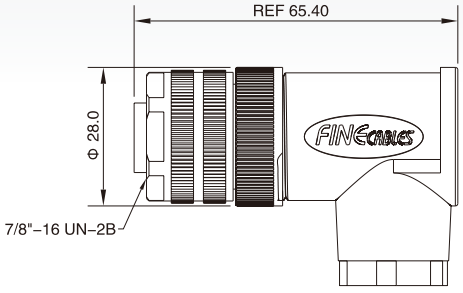
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm^2.
- Please refer to Page 15 for products' part number encoding rule.

Mini-change(7/8") Female Field Wirable Assembly, Angled Screw Termination

- Connector series: Mini–change(7/8")
- Gender: Female
- Locking type: Fix screw
- Mounting type: Right angled
- Part No.: MINI–C**FRA–SJF–A
  MINI–C**FRA–SJF–B

** refers to pins number
– suitable cable Dia: A:6~8mm
B:8~10mm



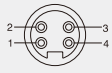
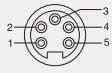


General information

Ambient temperature:	–25℃ ~ + 90℃
Connector insert:	TPU
Connector contacts:	Brass with gold plated
Connector nut:	Aluminium anodized black
Connector body:	PA+GF
Seal / O–ring:	FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance :	⩽ 5mΩ
Shielding:	Unavailable
Suitable cable Dia:	A: 6.0~8.0mm; B: 8.0~10.0mm
IP rating:	IP 67 in locked condition
Assembly Instruction:	Refer to page 292

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Wire gauge / size		Wire	Cable ending & length
				A/C	D/C	AWG	mm²		
03 pins		Screw joint	13A	300V	300V	18AWG	1.0	PVC wire or customized	Customized cable ending and length
04 pins		Screw joint	13A	300V	300V	18AWG	1.0		
05 pins		Screw joint	8A	300V	300V	20AWG	0.5		

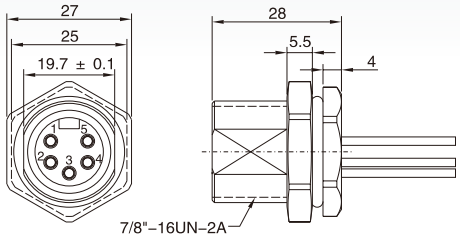
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 15 for products' part number encoding rule.

Mini-change(7/8") Male Panel Mount, Crimp, Front fastened

- Connector series: Mini–change(7/8")
- Gender: Male
- Locking type: Fix screw
- Mounting type: Front fastened
- Part NO.: MINI–C**MST–PCF–XXXXXX

** refers to pins number
X refers to cable specification





General information

Ambient termperature:	–25 ℃ ~ + 90 ℃
Connector insert:	TPU
Connector contacts:	Brass with gold plating
Coupling nut/screw:	Brass with nickel plating
Seal / O–ring:	Epoxy reain/FKM

Insulation resistance:	⩾100 MΩ
Contact resistance:	⩽5 mΩ
Shielding:	Unavailable
IP rating:	IP 67 in locked condition
Panel Cut–out:	Refer to page 293

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Wire gauge / size		Wire	Cable ending & length
				A/C	D/C	AWG	mm²		
03 pins		Crimp version	13A	300V	300V	18AWG	1.0	PVC wire or customized	Customized cable ending and length
04 pins		Crimp version	13A	300V	300V	18AWG	1.0		
05 pins		Crimp version	8A	300V	300V	20AWG	0.5		
16 pins		Crimp version	4A	250V	250V	24AWG	0.25		

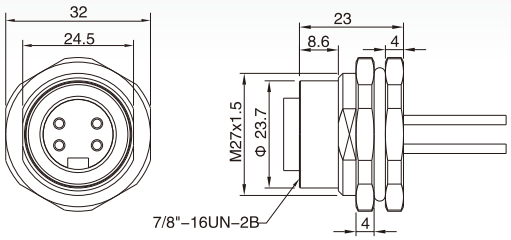
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 15 for products' part number encoding rule.

Mini-change(7/8") Female Panel Mount, Crimp, Front fastened

- Connector series:Mini–change(7/8")
- Gender: Female
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MINI–C**FST–PCF–XXXXXX

** refers to pins number
X refers to cable specification



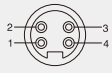
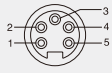


General information

Ambient termperature:	–25 ℃ ~ + 90 ℃
Connector insert:	TPU
Connector contacts:	Brass with gold plating
Coupling nut/screw:	Brass with nickel plating
Seal / O–ring:	FKM

Insulation resistance:	⩾100 MΩ
Contact resistance:	⩽5 mΩ
Shielding:	Unavailable
IP rating:	IP 67 in locked condition
Panel Cut–out:	Refer to page 293

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Wire gauge / size		Wire	Cable ending & length
				A/C	D/C	AWG	mm²		
03 pins		Crimp version	13A	300V	300V	18AWG	1.0	PVC wire or customized	Customized cable ending and length
04 pins		Crimp version	13A	300V	300V	18AWG	1.0		
05 pins		Crimp version	8A	300V	300V	20AWG	0.5		

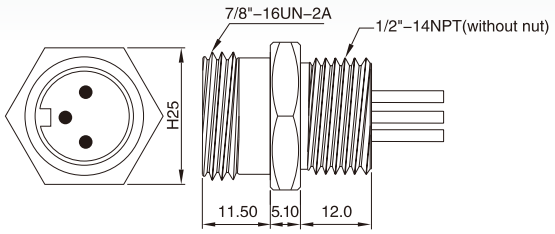
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 15 for products' part number encoding rule.

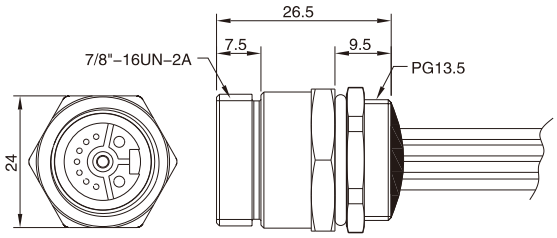
Mini-change(7/8") Male Panel Mount, Crimp, Rear fastened

- Connector series: Mini–change(7/8")
- Gender: Male
- Locking type: Fix screw
- Mounting type: Rear fastened
- Part No.: MINI–C**MST–PCR–XXXXXX–A
  MINI–C**MST–PCR–XXXXXX–B

** refers to pins number
X refers to cable specification
– refers to thread specs: A:1/2"–14NPT
B:PG13.5







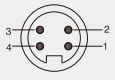
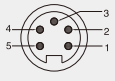


General information

Ambient temperature:	–25 ℃ ~ + 90 ℃
Connector insert:	TPU
Connector contacts:	Brass with gold plating
Coupling nut/screw:	Brass with nickel plating
Seal / O–ring:	Epoxy resin/FKM

Insulation resistance:	⩾100 MΩ
Contact resistance:	⩽5 mΩ
Shielding:	Unavailable
IP rating:	IP 67 in locked condition
Panel Cut–out:	Refer to page 293

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Wire gauge / size		Wire	Cable ending & length
				A/C	D/C	AWG	mm²		
03 pins		Crimp version	13A	300V	300V	18AWG	1.0	PVC wire or customized	Customized cable ending and length
04 pins		Crimp version	13A	300V	300V	18AWG	1.0		
05 pins		Crimp version	8A	300V	300V	20AWG	0.5		
3+7 pins		Crimp version	4A (signal 7Pins) 8A (power 3Pins)	250V	250V	20~24AWG	0.25~0.5		
16 pins		Crimp version	4A	250V	250V	24AWG	0.25		

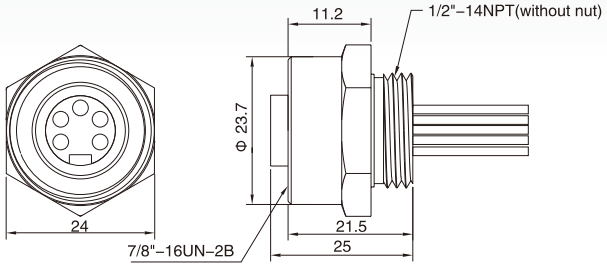
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 15 for products' part number encoding rule.

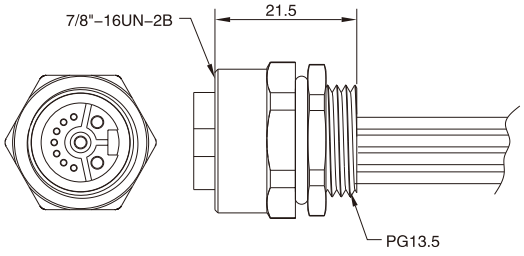
Mini-change(7/8") Female Panel Mount, Crimp, Rear fastened

- Connector series: Mini–change(7/8")
- Gender: Female
- Locking type: Fix screw
- Mounting type: Rear fastened
- Part No.: MINI–C**FST–PCR–XXXXXX–A
  MINI–C**FST–PCR–XXXXXX–B

** refers to pins number
X refers to cable specification
– refers to thread specs: A:1/2"–14NPT
B:PG13.5







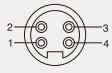
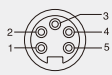


General information

Ambient temperature:	–25℃ ~ + 90 ℃
Connector insert:	TPU
Connector contacts:	Brass with gold plating
Coupling nut/screw:	Brass with nickel plating
Seal / O–ring:	Epoxy resin/FKM

Insulation resistance:	⩾100 MΩ
Contact resistance:	⩽5 mΩ
Shielding:	Unavailable
IP rating:	IP 67 in locked condition
Panel Cut–out:	Refer to page 293

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Wire gauge / size		Wire	Cable ending & length
				A/C	D/C	AWG	mm²		
03 pins		Crimp version	13A	300V	300V	18AWG	1.0	PVC wire or customized	Customized cable ending and length
04 pins		Crimp version	13A	300V	300V	18AWG	1.0		
05 pins		Crimp version	8A	300V	300V	20AWG	0.5		
3+7 pins		Crimp version	4A (signal 7Pins) 8A (power 3Pins)	250V	250V	20~24AWG	0.25~0.5		

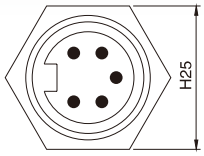
Remarks

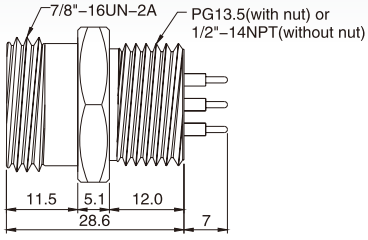
- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 15 for products' part number encoding rule.

Mini-change(7/8") Male Panel Mount, PCB Type, Rear fastened

- Connector series: Mini–change(7/8")
- Gender: Male
- Locking type: Fix screw
- Mounting type: Rear fastened
- Part No.: MINI–C**MST–PBR–A
  MINI–C**MST–PBR–B

** refers to pins number
– refers to thread specs: A:1/2"–14NPT
B:PG13.5





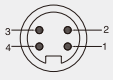
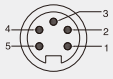


General information

Ambient temperature:	–25 ℃ ~ + 90 ℃
Connector insert:	TPU
Connector contacts:	Brass with gold plating
Coupling nut/screw:	Brass with nickel plating
Seal / O–ring:	Epoxy resin/FKM

Insulation resistance:	⩾100 MΩ
Contact resistance:	⩽5 mΩ
Shielding:	Unavailable
IP rating:	IP 67 in locked condition
Panel Cut–out:	Refer to page 293
PCB layout:	Refer to page 293

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage	
				A/C	D/C
03 pins		PCB version	13A	300V	300V
04 pins		PCB version	13A	300V	300V
05 pins		PCB version	8A	300V	300V
16 pins		PCB version	4A	250V	250V

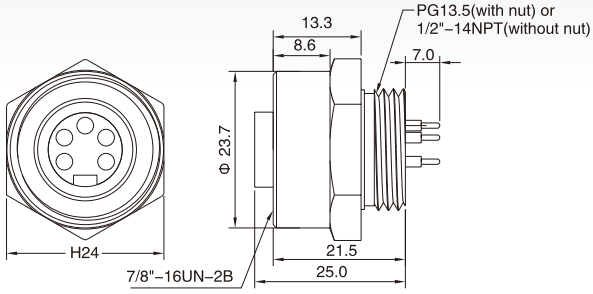
Remarks

• Please refer to Page 15 for products' part number encoding rule.

Mini-change(7/8") Female Panel Mount, PCB Type, Rear fastened

- Connector series: Mini–change(7/8")
- Gender: Female
- Locking type: Fix screw
- Mounting type: Rear fastened
- Part No.: MINI–C**FST–PBR–A
  MINI–C**FST–PBR–B

** refers to pins number
– refers to thread specs: A:1/2"–14NPT
B:PG13.5



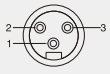
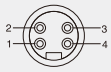
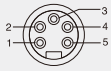


General information

Ambient temperature:	–25 ℃ ~ +90 ℃
Connector insert:	TPU
Connector contacts:	Brass with gold plating
Coupling nut/screw:	Brass with nickel plating
Seal / O–ring:	Epoxy resin/FKM

Insulation resistance:	⩾100 MΩ
Contact resistance:	⩽5 mΩ
Shielding:	Unavailable
IP rating:	IP 67 in locked condition
Panel Cut–out:	Refer to page 293
PCB layout:	Refer to page 293

Electrical data & Mechanical data

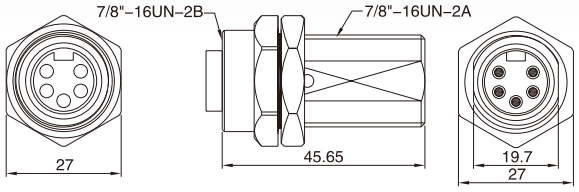
Contacts		Contacts termination	Rated current	Voltage	
				A/C	D/C
03 pins		PCB version	13A	300V	300V
04 pins		PCB version	13A	300V	300V
05 pins		PCB version	8A	300V	300V
16 pins		PCB version	4A	250V	250V

Remarks

• Please refer to Page 15 for products' part number encoding rule.

Mini-change(7/8") Male to Female Panel Mount

- Connector series: Mini–change(7/8")
- Gender: Male&Female
- Coding: A
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MT–011;MT–065~066

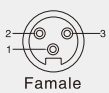
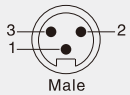
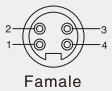
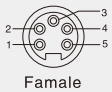




General information

Ambient temperature:	–25 ℃ ~ + 90℃	Insulation resistance:	≥100 MΩ
Connector insert:	PA+GF / TPU	Contact resistance:	≤5 mΩ
Connector contacts:	Brass with gold plated	Shielding:	Unavailable
Coupling nut/screw:	Brass with nickel plated	IP rating:	IP 67 in locked condition
Seal / O–ring:	Epoxy resin/FKM	Panel Cut–out:	Refer to page 293

Electrical data & Mechanical data

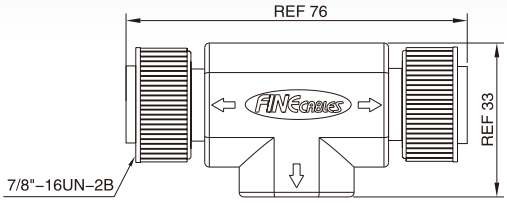
Contacts			Rated current	Voltage	
				A/C	D/C
03 pins MT–066	 Famale	 Male	13A	300V	300V
04 pins MT–065	 Famale	 Male	13A	300V	300V
05 pins MT–011	 Famale	 Male	8A	300V	300V

Remarks

• Please refer to Page 14 for products' part number encoding rule.

Mini-change(7/8") I-Adapter, Female-Female

- Connector series: Mini–change(7/8")
- Gender: Female
- Locking type: Fix screw
- Mounting type: I type
- Part No.: MT–067~69



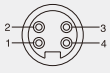
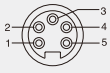


General information

Ambient temperature:	–25℃ ~ + 90 ℃
Connector insert:	TPU
Connector contacts:	Brass with gold plating
Connector screw/nut:	Aluminium anodized black
Connector overmold:	TPU
Seal/O–ring:	FKM

Insulation resistance:	⩾100 MΩ
Contact resistance:	⩽5 mΩ
Shielding:	Unavailable
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

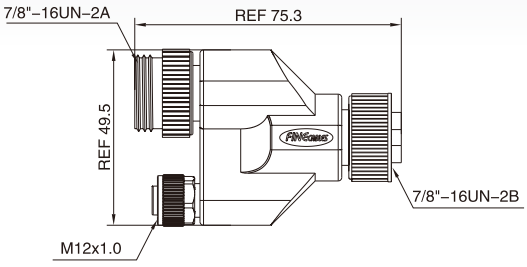
Contacts		Rated current	Voltage	
			A/C	D/C
03 pins MT–067		13A	300V	300V
04 pins MT–068		13A	300V	300V
05 pins MT–069		8A	300V	300V

Remarks

• Please refer to Page 14 for products' part number encoding rule.

Mini-change(7/8") Y-Splitter, Female-Male with M12 Female Connector

- Connector series: Mini–change(7/8")&M12
- Gender: Female & Male
- Locking type: Fix screw
- Mounting type: Y type
- Part No.: MT–070



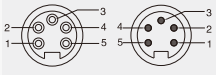


General information

Ambient temperature:	–25 ℃ ~ + 90℃
Connector insert:	TPU/PA+GF
Connector contacts:	Brass with gold plating
Connector screw/nut:	Aluminium anodized black(7/8")
	Zinc Alloy with nickel plated(M12)
Connector overmold:	TPU
Seal/O–ring:	FKM

Insulation resistance:	⩾100 MΩ
Contact resistance:	⩽5 mΩ
Shielding:	Unavailable
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

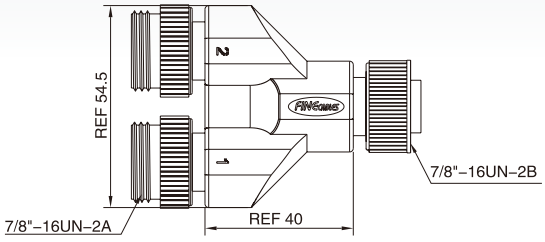
Contacts		Rated current	Voltage	
			A/C	D/C
05 pins	 7/8"female 7/8"male  M12 female	4A	60V	60V

Remarks

• Please refer to Page 14 for products' part number encoding rule.

Mini-change(7/8") Y-Splitter, Female-2* Male

- Connector series: Mini–change(7/8")
- Gender: Female & Male
- Locking type: Fix screw
- Mounting type: Y type
- Part No.: MT–071~073



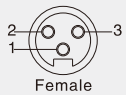
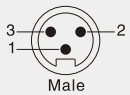
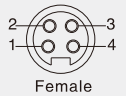
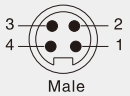
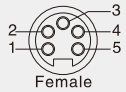
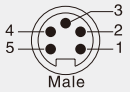


General information

Ambient temperature:	–25℃ ~ + 90 ℃
Connector insert:	TPU
Connector contacts:	Brass with gold plating
Connector screw/nut:	Aluminium anodized black
Connector overmold:	TPU
Seal/O–ring:	FKM

Insulation resistance:	⩾100 MΩ
Contact resistance:	⩽5 mΩ
Shielding:	Unavailable
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

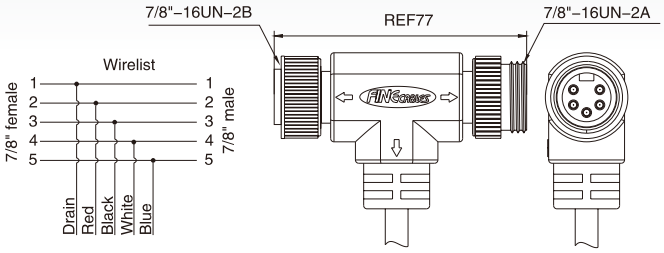
Contacts			Rated current	Voltage	
				A/C	D/C
03 pins MT–071	 Female	 Male	13A	300V	300V
04 pins MT–072	 Female	 Male	13A	300V	300V
05 pins MT–073	 Female	 Male	8A	300V	300V

Remarks

• Please refer to Page 14 for products' part number encoding rule.

Mini-change(7/8") T-Splitter, Male-Female, Molded Cable

- Connector series: Mini–change(7/8")
- Gender: Female & Male
- Locking type: Fix screw
- Mounting type: T type
- Part No.: MT–014



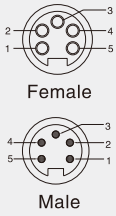


General information

Ambient temperature:	–20℃ ~ + 80℃
Connector insert:	TPU
Connector contacts:	Brass with gold plating
Connector screw/nut:	Aluminium anodized black
Connector overmold:	TPU
Seal/O–ring:	FKM

Insulation resistance:	⩾100 MΩ
Contact resistance:	⩽5 mΩ
Shielding:	Unavailable
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

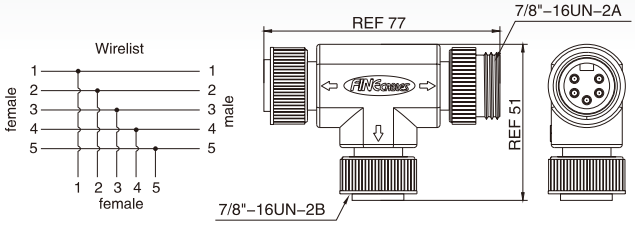
Contacts		Rated current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Cable ending & length
			A/C	D/C	AWG	mm^2			
05 pins	 Female Male	8A	300V	300V	20AWG	0.5	PUR / PVC	PVC	Customized cable ending and length

Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm^2.
- Please refer to Page 15 for products' part number encoding rule.

Mini-change(7/8") T-Splitter, Female-Male-Female

- Connector series: Mini–change(7/8")
- Gender: Female & Male
- Locking type: Fix screw
- Mounting type: T type
- Part No.: MT–012





General information

Ambient temperature:	–25℃ ~ + 90 ℃
Connector insert:	TPU
Connector contacts:	Brass with gold plating
Connector screw/nut:	Aluminium anodized black
Connector overmold:	TPU
Seal/O–ring:	FKM

Insulation resistance:	⩾100 MΩ
Contact resistance:	⩽5 mΩ
Shielding:	Unavailable
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

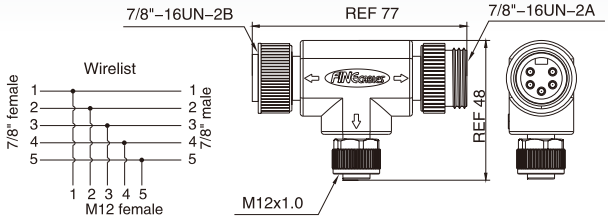
Contacts		Rated current	Voltage	
			A/C	D/C
05 pins	 Female  Male	8A	300V	300V

Remarks

• Please refer to Page 15 for products' part number encoding rule.

Mini-change(7/8") T-Splitter, Male-Female with M12 Female Connector

- Connector series: Mini–change(7/8")&M12
- Gender: Female & Male
- Locking type: Fix screw
- Mounting type: T type
- Part No.: MT–013



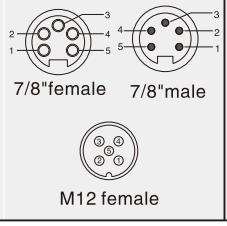


General information

Ambient temperature:	–25 ℃ ~ + 90℃
Connector insert:	TPU/PA+GF
Connector contacts:	Brass with gold plating
Connector screw/nut:	Aluminium anodized black(7/8")
	Zinc alloy with nickel plated(M12)
Connector overmold:	TPU
Seal/O–ring:	FKM

Insulation resistance:	⩾100 MΩ
Contact resistance:	⩽5 mΩ
Shielding:	Unavailable
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts		Rated current	Voltage	
			A/C	D/C
05 pins	 7/8"female 7/8"male M12 female	4A	60V	60V

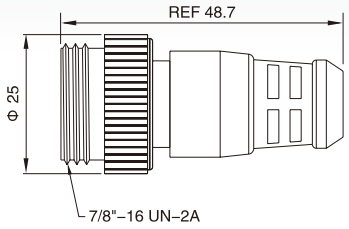
Remarks

• Please refer to Page 15 for products' part number encoding rule.

Mini-change(7/8") male terminator

- Connector series: Mini–change(7/8")
- Gender: Male
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MINI–C**MST–M–T

** refers to pins number



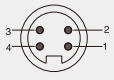
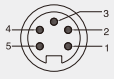


General information

Ambient temperature:	–20 ℃ ~ + 80 ℃
Connector insert:	TPU
Connector contacts:	Brass with gold plating
Connector overmold:	TPU
Coupling nut/screw:	Aluminium anodized black

Insulation resistance:	⩾100 MΩ
Contact resistance:	⩽5 mΩ
Shielding:	Unavailable
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts		Rated current	Voltage		Wire gauge / size	
			A/C	D/C	AWG	mm^2
03 pins		13A	300V	300V	18AWG	1.0
04 pins		13A	300V	300V	18AWG	1.0
05 pins		8A	300V	300V	20AWG	0.5
16 pins		4A	250V	250V	24AWG	0.25

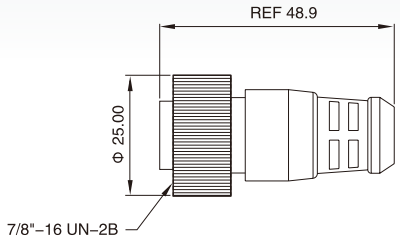
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm^2.
- Please refer to Page 15 for products' part number encoding rule.

Mini-change(7/8") female terminator

- Connector series: Mini–change(7/8")
- Gender: Female
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MINI–C**FST–M–T

** refers to pins number



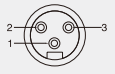
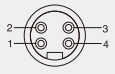
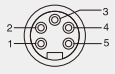


General information

Ambient temperature:	–20 ℃ ~ + 80 ℃
Connector insert:	TPU
Connector contacts:	Brass with gold plating
Connector overmold:	TPU
Coupling nut/screw:	Aluminium anodized black
Seal/O–ring:	FKM

Insulation resistance:	⩾100 MΩ
Contact resistance:	⩽5 mΩ
Shielding:	Unavailable
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

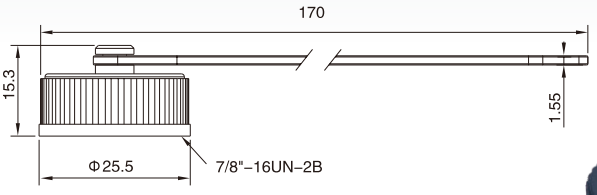
Contacts		Rated current	Voltage		Wire gauge / size	
			A/C	D/C	AWG	mm^2
03 pins		13A	300V	300V	18AWG	1.0
04 pins		13A	300V	300V	18AWG	1.0
05 pins		8A	300V	300V	20AWG	0.5
16 pins		4A	250V	250V	24AWG	0.25

Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm^2.
- Please refer to Page 15 for products' part number encoding rule.

Mini-change(7/8") Protection Cap for Male Molded Cable Connector

- Connector series: Mini–change
- Gender: for Male
- Locking type: Fix screw
- Part No.: PCN7/8"–2





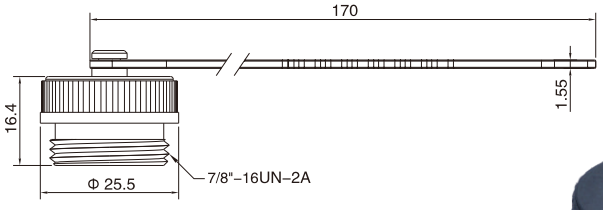
General information

Color:	Black
nut/screw:	PA+GF
Gasket:	FKM

Loop:	TPU
IP rating:	IP67 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:	IP67 in locked condition

Mini-change(7/8") Assembly Instruction

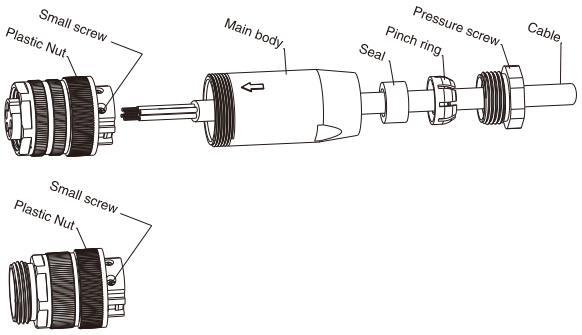
Step 1

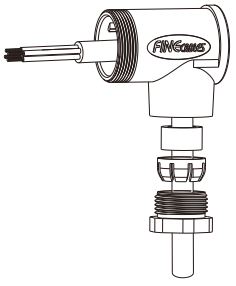


Step 2

Assemble all components on cable as following.

Right Angled Sketch



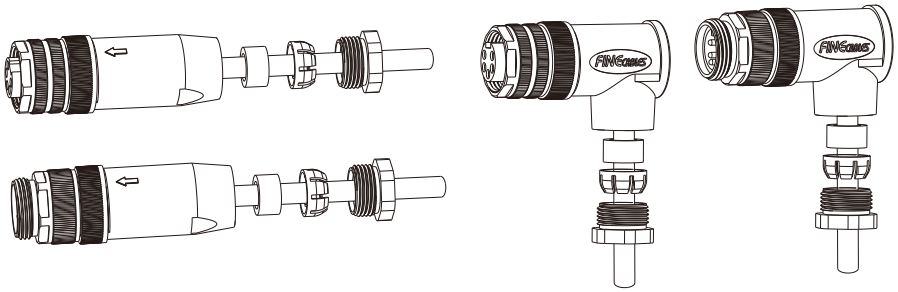


Step 3

Connect all wires to insert according to wirelist, then tighten all small screws. The torque for small screws is 0.3Nm.

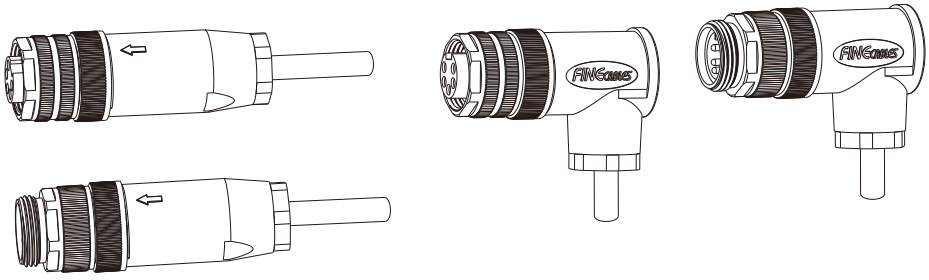
Step 4

Assemble plastic nut to main body. Recommended torque:1.0Nm.
(Note: The key inside the main body must go straight to slot of insert.)



Step 5

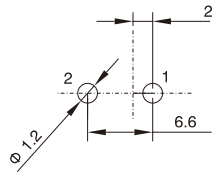
Push the cable seal, pinch ring into the main body, then tighten the pressure screw into the body with recommended torque: 1.0Nm.



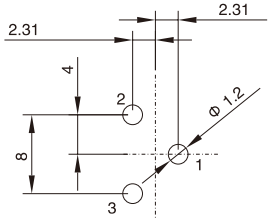
7/8" PCB Layout & Panel Cut-out

■ PCB Layout

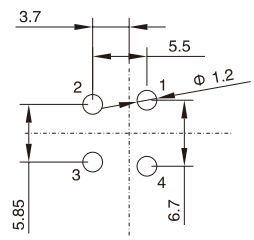
7/8" Male Connector



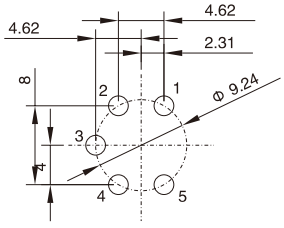
Pin OD:1.0
7/8" 2P



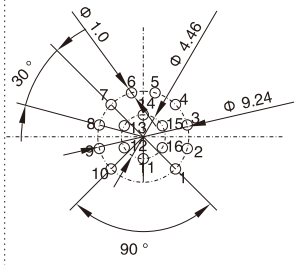
Pin OD:1.0
7/8" 3P



Pin OD:1.0
7/8" 4P



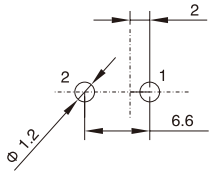
Pin OD:1.0
7/8" 5P



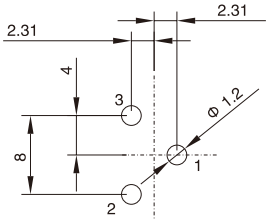
Pin OD:0.8
7/8" 16P

Recommended PCB layout

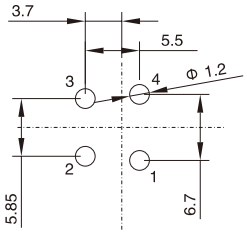
7/8" Female Connector



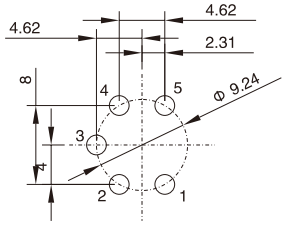
Pin OD:1.0
7/8" 2P



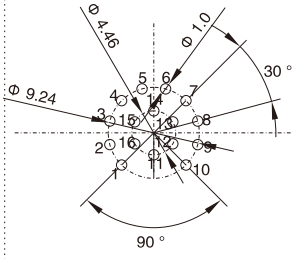
Pin OD:1.0
7/8" 3P



Pin OD:1.0
7/8" 4P



Pin OD:1.0
7/8" 5P

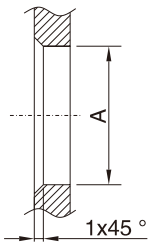


Pin OD:0.8
7/8" 16P

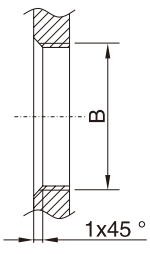
Recommended PCB layout

■ Panel Cut–out Dimensions:

With bare hole

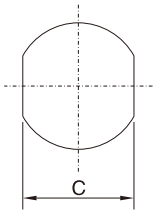


With thread to screw in

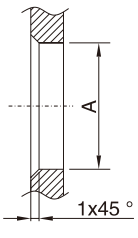


	A	B
7/8"–16UN–2B	22.2 $^{+0.1}_{-0}$	7/8"–16UN–2A
PG13.5	20.5 $^{+0.1}_{-0}$	PG13.5
1/2"–14NPT	\	1/2"–14NPT

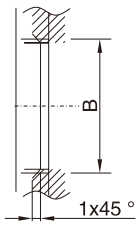
H–cutting



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 IP 67
- 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 Signal Connectors/Technical Data

Mechanical Data

Housing Material	PA
Contact material	Copper alloy with gold plating
Seal ring	NBR or FKM
Locking type	Fix screw (M23x1.0)
Degree of protection	IP67 in locked condition
Operation cycles	>500
Approvals	CE;IP67

Electrical Data

Number of positions	6,7	9(8+1)		12	16	17	19(16+3)	
Contacts	6,7	8	1	12	16	17	16	3
Contact OD (mm)	2.0	1.0	2.0	1.0	1.0	1.0	1.0	1.5
Rated current @ 20℃ (A)	20	8	20	8	8	8	8	10
Rated Voltage (V)	300			300	160	160	160	
Impulse voltage(V)	2500			1500				
Overvoltage category	II							
Contact resistance	<5 mohm							
Insulation resistance	>100M ohms							
Pollution Degree	III							

Connection Type

Contact OD (mm)	2.0mm	1.5mm	1.0mm
Conductor cross section (solder type)	14AWG	16AWG	18AWG

M23 Signal series

Pin		Contact OD (mm)	Pin	Socket	Pin		Contact OD (mm)	Pin	Socket
6A		2			7A		2		
9A (8+1)	8	1			9B (8+1)	8	1		
	1	2				1	2		
19A (16+3)	16	1			16A		1		
	3	1.5							
12A (Standard)		1			12B (opposite)		1		
17A (Standard)		1			17B (opposite)		1		

M23 Power Connectors/Technical Data

Mechanical Data

Housing Material	PA
Contact material	Copper alloy with gold plating
Seal ring	NBR or FKM
Locking type	Fix screw (M23x1.0)
Degree of protection	IP67 in locked condition
Operation cycles	>500

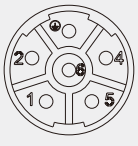
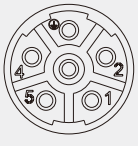
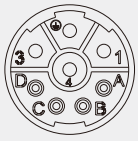
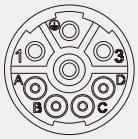
Electrical Data

Number of positions	6(5+PE)	8(4+3+PE)		
Contacts	5+PE	4	3	PE
Contact OD(mm)	2.0	1.0	2.0	2.0
Rated current @ 20℃(A)	30	9	30	
Rated Voltage(V)	630	250	630	
Impulse voltage(V)	6000	4000	6000	
Overvoltage category	III			
Contact resistance	<5 mohm			
Insulation resistance	>1000M ohms			
Pollution Degree	III			

Connection Type

Contact OD(mm)	2.0mm	1.0mm
Conductor cross section(crimp type)	0.25~4.0mm^2	0.08~1.0mm^2

M23 Power series

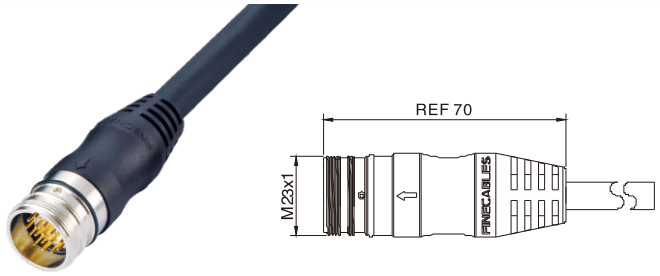
Number of postion	Contact OD (mm)	Pin	Socket	Number of postion		Contact OD (mm)	Pin	Socket
06(5+PE)	2			08 (4+3+PE)	3+PE	2		
					4	1		

Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm^2.
- Please refer to Page 16~18 for products' part number encoding rule.

M23 Signal Molded Cable, Straight

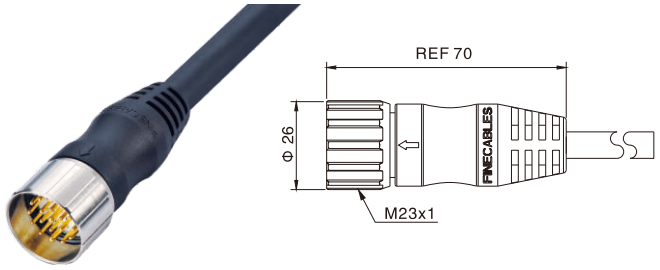
■ Straight, Male Housing+Male Thread



■ Description

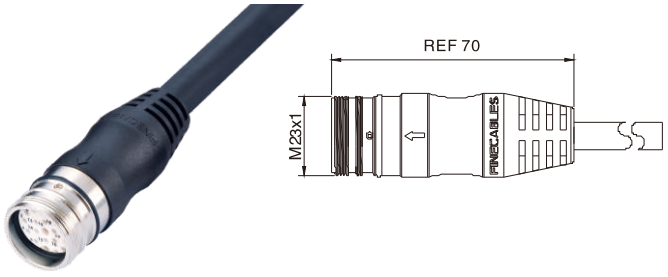
Series:	Signal
Available Pins:	ALL
Contacts:	Pin
Mounting type:	Straight
Rated temperature:	–20 ℃ ~ + 80 ℃
Order No.:	M23–MSSPST***–XXX(unshielded) M23–MSSSPST***–XXX(shielded) *** for number of position X refers to cable specs
Connector overmold:	TPU
Connector nut/screw:	Brass with Nickel plated
Cable OD range:	2.0~10.5
Available Connection type:	Solder

■ Straight, Male Housing+Female Thread



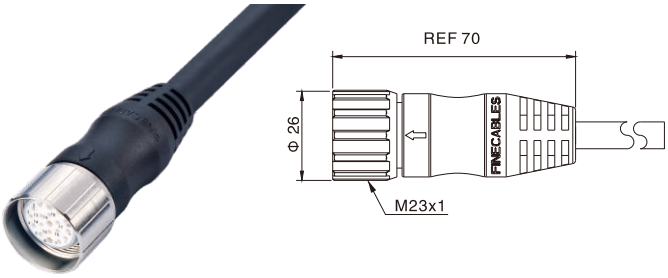
Series:	Signal
Available Pins:	ALL
Contacts:	Pin
Mounting type:	Straight
Rated temperature:	–20 ℃ ~ + 80 ℃
Order No.:	M23–MSNPST***–XXX(unshielded) M23–MSNSPST***–XXX(shielded) *** for number of position X refers to cable specs
Connector overmold:	TPU
Connector nut/screw:	Brass with Nickel plated
Cable OD range:	2.0~10.5
Available Connection type:	Solder

■ Straight, Female Housing+Male Thread



Series:	Signal
Available Pins:	ALL
Contacts:	Socket
Mounting type:	Straight
Rated temperature:	–20 ℃ ~ + 80 ℃
Order No.:	M23–MSSSST***–XXX(unshielded) M23–MSSSSST***–XXX(shielded) *** for number of position X refers to cable specs
Connector overmold:	TPU
Connector nut/screw:	Brass with Nickel plated
Cable OD range:	2.0~10.5
Available Connection type:	Solder

■ Straight, Female Housing+Female Thread

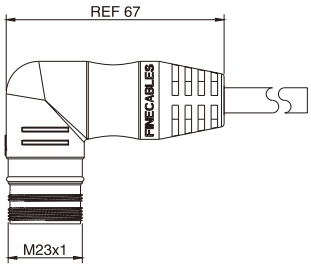


Series:	Signal
Available Pins:	ALL
Contacts:	Socket
Mounting type:	Straight
Rated temperature:	–20 ℃ ~ + 80 ℃
Order No.:	M23–MSNSST***–XXX(unshielded) M23–MSNSSST***–XXX(shielded) *** for number of position X refers to cable specs
Connector overmold:	TPU
Connector nut/screw:	Brass with Nickel plated
Cable OD range:	2.0~10.5
Available Connection type:	Solder

M23 Signal Molded Cable, Angled

■ Right Angle, Male Housing+Male Thread



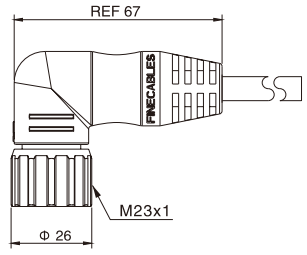


■ Description

Series:	Signal
Available Pins:	ALL
Contacts:	Pin
Mounting type:	Right angled
Rated temperature:	–20 ℃ ~ + 80 ℃
Order No.:	M23–MSSPRA***–XXX(unshielded) M23–MSSSPRA***–XXX(shielded) *** for number of position X refers to cable specs
Connector overmold:	TPU
Connector nut/screw:	Brass with Nickel plated
Cable OD range:	2.0~10.5
Available Connection type:	Solder

■ Right Angle, Male Housing+Female Thread

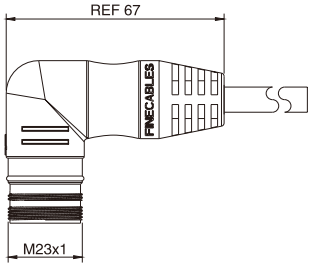




Series:	Signal
Available Pins:	ALL
Contacts:	Pin
Mounting type:	Right angled
Rated temperature:	–20 ℃ ~ + 80 ℃
Order No.:	M23–MSNPRA***–XXX(unshielded) M23–MSNSPRA***–XXX(shielded) *** for number of position X refers to cable specs
Connector overmold:	TPU
Connector nut/screw:	Brass with Nickel plated
Cable OD range:	2.0~10.5
Available Connection type:	Solder

■ Right Angle, Female Housing+Male Thread

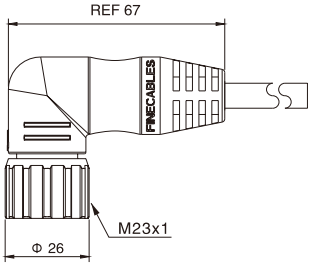




Series:	Signal
Available Pins:	ALL
Contacts:	Socket
Mounting type:	Right angled
Rated temperature:	–20 ℃ ~ + 80 ℃
Order No.:	M23–MSSSRA***–XXX(unshielded) M23–MSSSSRA***–XXX(shielded) *** for number of position X refers to cable specs
Connector overmold:	TPU
Connector nut/screw:	Brass with Nickel plated
Cable OD range:	2.0~10.5
Available Connection type:	Solder

■ Right Angle, Female Housing+Female Thread



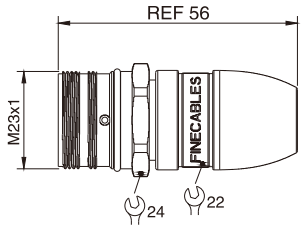


Series:	Signal
Available Pins:	ALL
Contacts:	Socket
Mounting type:	Right angled
Rated temperature:	–20 ℃ ~ + 80 ℃
Order No.:	M23–MSNSRA***–XXX(unshielded) M23–MSNSSRA***–XXX(shielded) *** for number of position X refers to cable specs
Connector overmold:	TPU
Connector nut/screw:	Brass with Nickel plated
Cable OD range:	2.0~10.5
Available Connection type:	Solder

M23 Signal Assembly Connectors, Solder, Shielded

Straight, Male Housing+Male Thread



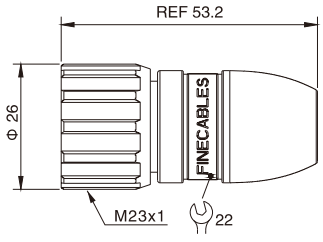


Description

Series:	Signal
Available Pins:	ALL
Contacts:	Pin
Mounting type:	Straight
Rated temperature:	–40 ℃ ~ + 125 ℃
Shielding:	Available
Order No.:	M23–SSPST–***–XX *** for number of position XX for cable OD rang
Connector Body:	Brass with Nickel plated
Connector nut/screw:	Brass with Nickel plated
Available Connection type:	Solder
Assembly Instruction:	Refer to page 308

Straight, Male Housing+Female Thread

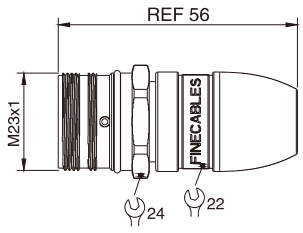




Series:	Signal
Available Pins:	ALL
Contacts:	Pin
Mounting type:	Straight
Rated temperature:	–40 ℃ ~ + 125 ℃
Shielding:	Available
Order No.:	M23–SNPST–***–XX *** for number of position XX for cable OD rang
Connector Body:	Zinc alloy(die cast)
Connector nut/screw:	Brass with Nickel plated
Available Connection type:	Solder
Assembly Instruction:	Refer to page 308

Straight, Female Housing+Male Thread

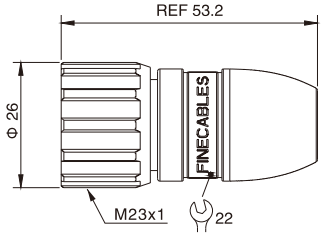




Series:	Signal
Available Pins:	ALL
Contacts:	Socket
Mounting type:	Straight
Rated temperature:	–40 ℃ ~ + 125 ℃
Shielding:	Available
Order No.:	M23–SSSST–***–XX *** for number of position XX for cable OD rang
Connector Body:	Brass with Nickel plated
Connector nut/screw:	Brass with Nickel plated
Available Connection type:	Solder
Assembly Instruction:	Refer to page 308

Straight, Female Housing+Female Thread



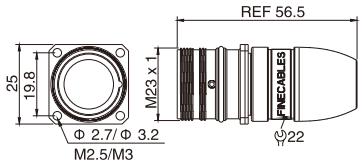


Series:	Signal
Available Pins:	ALL
Contacts:	Socket
Mounting type:	Straight
Rated temperature:	–40 ℃ ~ + 125 ℃
Shielding:	Available
Order No.:	M23–SNSST–***–XX *** for number of position XX for cable OD rang
Connector Body:	Zinc alloy(die cast)
Connector nut/screw:	Brass with Nickel plated
Available Connection type:	Solder
Assembly Instruction:	Refer to page 308

M23 Signal Assembly Panel Connectors, Solder, Shielded

■ Straight, Male Housing+Male Thread



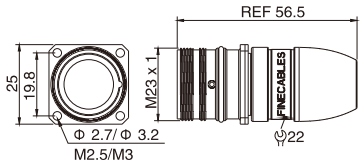


■ Description

Series:	Signal
Available Pins:	ALL
Contacts:	Pin
Mounting type:	Straight
Rated temperature:	–40 ℃ ~ + 125 ℃
Shielding:	Available
Order No.:	M23–SSPSTFAFX***–XX *** for number of position XX for cable OD rang FX refers to panel mount hole
Connector Body:	Brass with Nickel plated
Coupling nut/screw:	Brass with Nickel plated
Available Connection type:	Solder
Assembly Instruction:	Refer to page 308

■ Straight, Female Housing+Male Thread

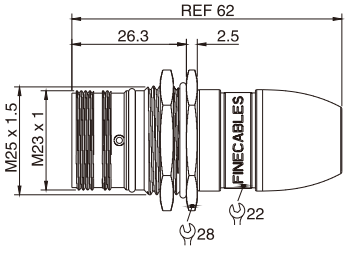




Series:	Signal
Available Pins:	ALL
Contacts:	Socket
Mounting type:	Straight
Rated temperature:	–40 ℃ ~ + 125 ℃
Shielding:	Available
Order No.:	M23–SSSSTFAFX***–XX *** for number of position XX for cable OD rang FX refers to panel mount hole
Connector Body:	Brass with Nickel plated
Coupling nut/screw:	Brass with Nickel plated
Available Connection type:	Solder
Assembly Instruction:	Refer to page 308

■ Straight, Male Housing+Male Thread

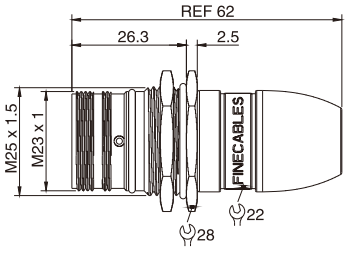




Series:	Signal
Available Pins:	ALL
Contacts:	Pin
Mounting type:	Straight
Rated temperature:	–40 ℃ ~ + 125 ℃
Shielding:	Available
Order No.:	M23–SSPSTFAS3–***–XX *** for number of position XX for cable OD rang
Connector Body:	Brass with Nickel plated
Coupling nut/screw:	Brass with Nickel plated
Available Connection type:	Solder
Assembly Instruction:	Refer to page 308

■ Straight, Female Housing+Male Thread



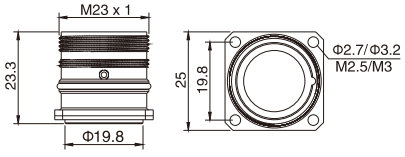


Series:	Signal
Available Pins:	ALL
Contacts:	Socket
Mounting type:	Straight
Rated temperature:	–40 ℃ ~ + 125 ℃
Shielding:	Available
Order No.:	M23–SSSSTFAS3–***–XX *** for number of position XX for cable OD rang
Connector Body:	Brass with Nickel plated
Coupling nut/screw:	Brass with Nickel plated
Available Connection type:	Solder
Assembly Instruction:	Refer to page 308

M23 Signal Panel Mount, Solder, Front/Rear fastened

■ Straight, Male Housing+Male Thread



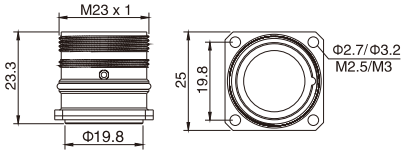


■ Description

Series:	Signal
Available Pins:	ALL
Contacts:	Pin
Mounting type:	Front mount
Rated temperature:	–40 ℃ ~ +125 ℃
Shielding:	Unavailable
Order No.:	M23–SSPSTFFX***–XXX *** for number of position FX refers to panel mount hole X for wire type and length
Coupling nut/screw:	Brass with Nickel plated
Available Connection type:	Solder

■ Straight, Female Housing+Male Thread

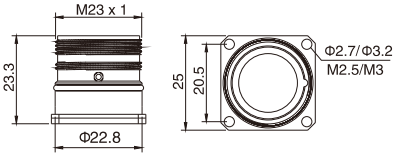




Series:	Signal
Available Pins:	ALL
Contacts:	Socket
Mounting type:	Front mount
Rated temperature:	–40 ℃ ~ +125 ℃
Shielding:	Unavailable
Order No.:	M23–SSSSTFFX***–XXX *** for number of position FX refers to panel mount hole X for wire type and length
Coupling nut/screw:	Brass with Nickel plated
Available Connection type:	Solder

■ Straight, Male Housing+Male Thread

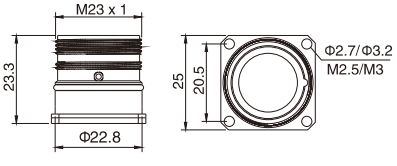




Series:	Signal
Available Pins:	ALL
Contacts:	Pin
Mounting type:	Rear mount
Rated temperature:	–40 ℃ ~ +125℃
Shielding:	Unavailable
Order No.:	M23–SSPSTRFX***–XXX FX refers to panel mount hole X for wire type and length
Coupling nut/screw:	Brass with Nickel plated
Available Connection type:	Solder

■ Straight, Female Housing+Male Thread



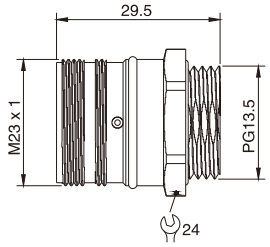


Series:	Signal
Available Pins:	ALL
Contacts:	Socket
Mounting type:	Rear mount
Rated temperature:	–40 ℃ ~ +125℃
Shielding:	Unavailable
Order No.:	M23–SSSSTRFX***–XXX FX refers to panel mount hole X for wire type and length
Coupling nut/screw:	Brass with Nickel plated
Available Connection type:	Solder

M23 Signal Panel Mount, Solder, Rear fastened

Panel–mount, Male Housing+Male Thread



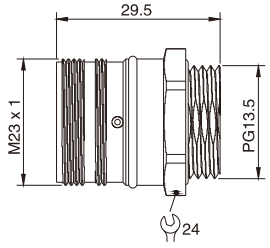


Description

Series:	Signal
Available Pins:	ALL
Contacts:	Pin
Mounting type:	Rear mount
Rated temperature:	–40 ℃ ~ +125 ℃
Shielding:	Unavailable
Order No.:	M23–SSPSTRSX–***–XXX SX:Screw type *** for number of position X for wire type and length
Coupling nut/screw:	Brass with Nickel plated
Available Connection type:	Solder

Panel–mount, Female Housing+Male Thread



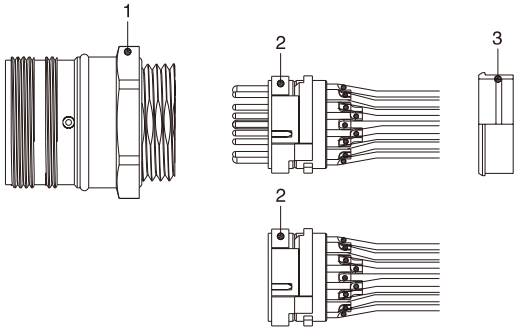


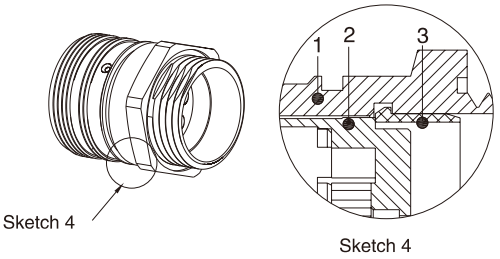
Series:	Signal
Available Pins:	ALL
Contacts:	Socket
Mounting type:	Rear mount
Rated temperature:	–40 ℃ ~ +125 ℃
Shielding:	Unavailable
Order No.:	M23–SS*STRSX–***–XXX SX:Screw type *** for number of position X for wire type and length
Coupling nut/screw:	Brass with Nickel plated
Available Connection type:	Solder

M23 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.





M23 Signal Connector Accessories

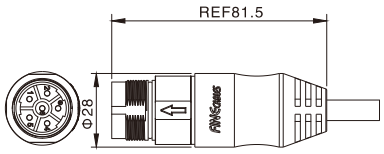
Accessories	Type	Part number
	Assembly tool for M23 singal connectors For connectors with female thread	M23–TOOL–1

Accessories	Type	Part number
	Assembly tool for M23 singal connectors For connectors with male thread	M23–TOOL–2

M23 Power, Straight, Molded Connector

■ Straight, Male Thread



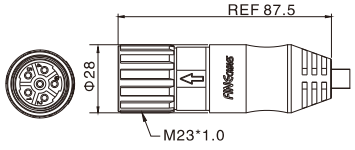


■ Description

Series:	Power
Available Pins:	ALL
Contacts:	Pin
Mounting type:	Straight
Rated temperature:	–20 ℃ ~ + 80 ℃
Order No.:	M23–MPSPST***–XXXX(unshielded) M23–MPSSPST***–XXXX(shielded) *** for number of position X refers to cable specs
Connector Body:	Zinc alloy with Nickel plated
Coupling screw:	Zinc alloy with Nickel plated
Available Connection type:	Crimp

■ Straight, Female Thread





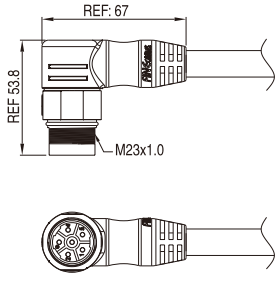
■ Description

Series:	Power
Available Pins:	ALL
Contacts:	Socket
Mounting type:	Straight
Rated temperature:	–20 ℃ ~ + 80 ℃
Order No.:	M23–MPNSST***–XXXX(unshielded) M23–MPNSSST***–XXXX(shielded) *** for number of position X refers to cable specs
Connector Body:	Zinc alloy with Nickel plated
Coupling nut:	Brass with Nickel plated
Available Connection type:	Crimp

M23 Power, Molded Cable, Angled

■ M23 Male Right Angle molded Connector



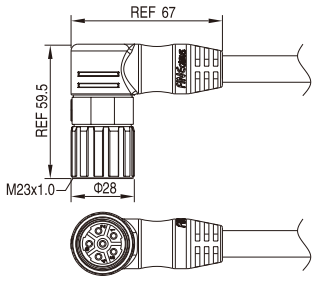


■ Description

Series:	Power
Available Pins:	ALL
Contacts:	Pin
Mounting type:	Right angled
Rated temperature:	–20 ℃ ~ + 80 ℃
Order No.:	M23–MPSPRA***–XXXX(unshielded) M23–MPSSPRA***–XXXX(shielded) *** for number of position X refers to cable specs
Connector overmold:	TPU
Connector screw:	Zinc alloy with Nickel plated
Available Connection type:	Crimp

■ M23 Female Right Angle molded Connector





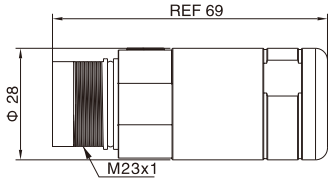
■ Description

Series:	Power
Available Pins:	ALL
Contacts:	Socket
Mounting type:	Right angled
Rated temperature:	–20 ℃ ~ + 80 ℃
Order No.:	M23–MPNSRA***–XXXX(unshielded) M23–MPNSSRA***–XXXX(shielded) *** for number of position X refers to cable specs
Connector overmold:	TPU
Connector nut:	Brass with Nickel plated
Available Connection type:	Crimp

M23 Power, Assembly Connectors, Crimp

■ Straight Connector, Male Thread



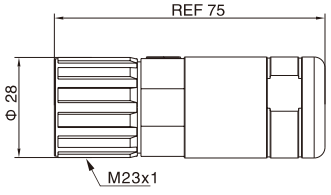


■ Description

Series:	Power
Available Pins:	ALL
Contacts:	Pin
Mounting type:	Straight
Rated temperature:	–40 ℃ ~ + 125 ℃
Shielding:	Available
Order No.:	M23–PSSST***–XXX *** for number of position X refers to cable specs
Connector Body:	Zinc alloy with Nickel plated
Coupling nut/screw:	Brass with Nickel plated
Available Connection type:	Crimp
Assembly Instruction:	Refer to page 309

■ Straight Connector, Female Thread



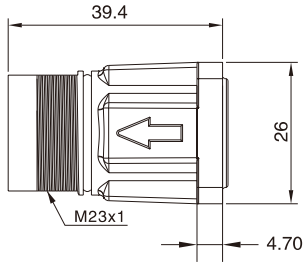


Series:	Power
Available Pins:	ALL
Contacts:	Socket
Mounting type:	Straight
Rated temperature:	–40 ℃ ~ + 125 ℃
Shielding:	Available
Order No.:	M23–PNSST***–XXX *** for number of position X refers to cable specs
Connector Body:	Zinc alloy with Nickel plated
Coupling nut/screw:	Brass with Nickel plated
Available Connection type:	Crimp
Assembly Instruction:	Refer to page 309

M23 Power, Panel Mount, Crimp, Rear fastened

Panel Connector, Male Thread



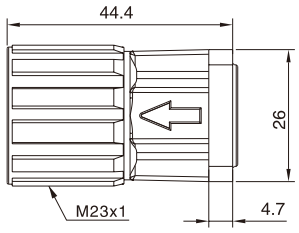


Description

Series:	Power
Available Pins:	ALL
Contacts:	Pin
Mounting type:	Front mount
Rated temperature:	–40 ℃ ~ +125 ℃
Shielding:	Unavailable
Order No.:	M23–PSPSTFF3***–XXXX *** for number of position X for wire type and length
Coupling nut/screw:	Zinc alloy with Nickel plated
Available Connection type:	Crimp
Assembly Instruction:	Refer to page 310~311

Panel Connector, Female Thread

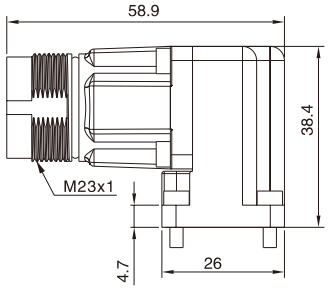




Series:	Power
Available Pins:	ALL
Contacts:	Socket
Mounting type:	Front mount
Rated temperature:	–40 ℃ ~ +125 ℃
Shielding:	Unavailable
Order No.:	M23–PNSSTFF3***–XXXX *** for number of position X for wire type and length
Coupling nut/screw:	Brass with nickel plated
Available Connection type:	Crimp
Assembly Instruction:	Refer to page 310~311

Right Angle Connector, Male Thread

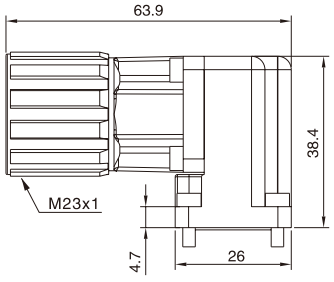




Series:	Power
Available Pins:	ALL
Contacts:	Pin
Mounting type:	Right angled; Front mount
Rated temperature:	–40 ℃ ~ +125 ℃
Shielding:	Unavailable
Order No.:	M23–PSPRAFF3***–XXXX *** for number of position X for wire type and length
Coupling nut/screw:	Brass with nickel plated
Available Connection type:	Crimp
Assembly Instruction:	Refer to page 310~311

Right Angle Connector, Female Thread



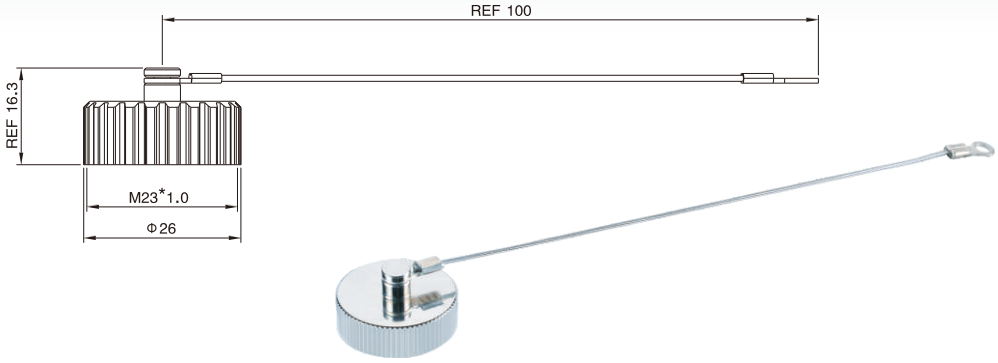


Series:	Power
Available Pins:	ALL
Contacts:	Socket
Mounting type:	Right angled; Front mount
Rated temperature:	–40 ℃ ~ +125 ℃
Shielding:	Unavailable
Order No.:	M23–PNSRAFF3***–XXXX *** for number of position X for wire type and length
Coupling nut/screw:	Brass with nickel plated
Available Connection type:	Crimp
Assembly Instruction:	Refer to page 310~311

M23 Metal Protection Cap for male

- Connector series: M23
- Gender: Male
- Locking type: Fix screw
- Mounting type: Rear fastened
- Part No.: PCNM23*1.0–0

** refers to pins number



General information

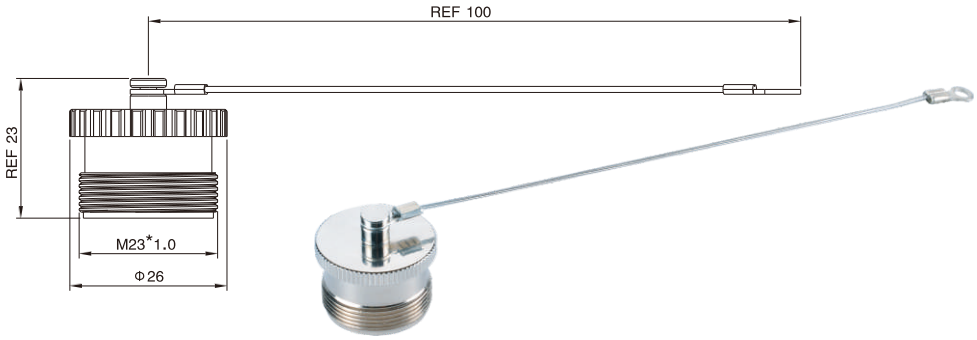
Cap:	Aluminium alloy with nickel plated
Dowel:	Ferrum with nickel plated
Wire:	Stainless steel wire

Terminal :	M3 R type terminal (RNB1–3.2)
Gasket:	Black NBR
IP rating:	IP 67 in locked condition

M23 Metal Protection Cap for female

- Connector series: M23
- Gender: female
- Locking type: Fix screw
- Mounting type: Rear fastened
- Part No.: PCSM23*1.0–0

** refers to pins number



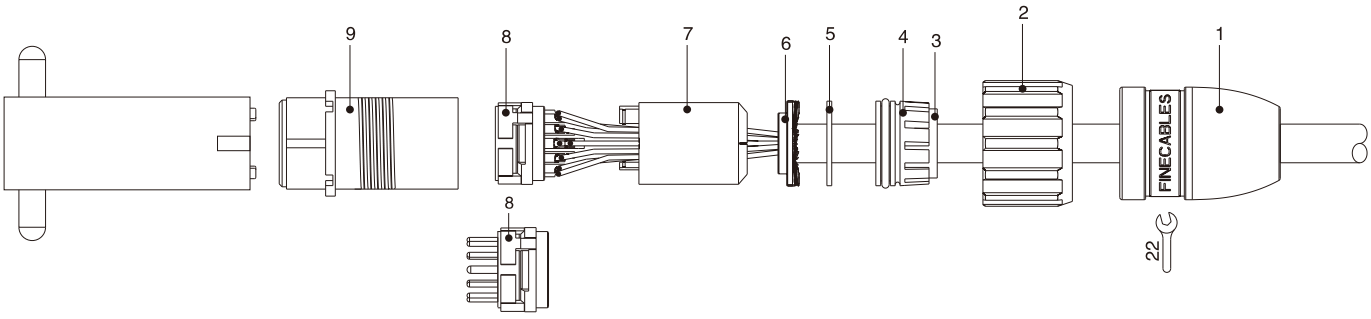
General information

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:	IP 67 in locked condition

M23 Signal Connectors/Assembly Instructions

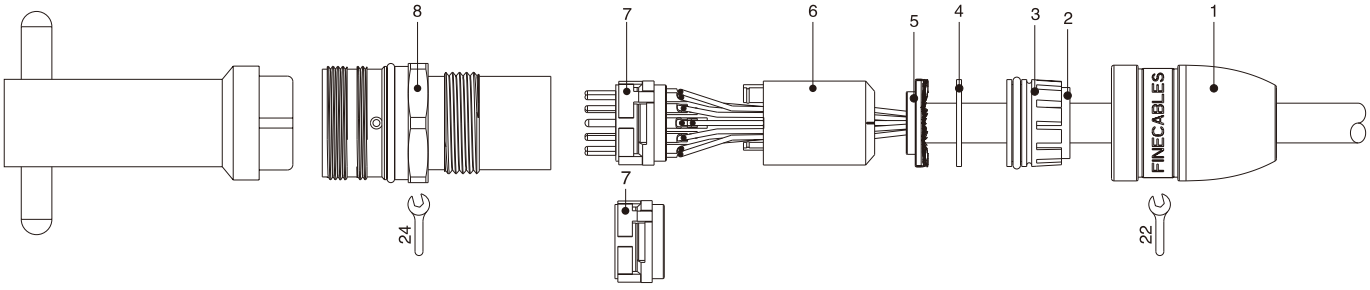
Straight Connector, Female Thread



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;

Straight Connector, Male Thread

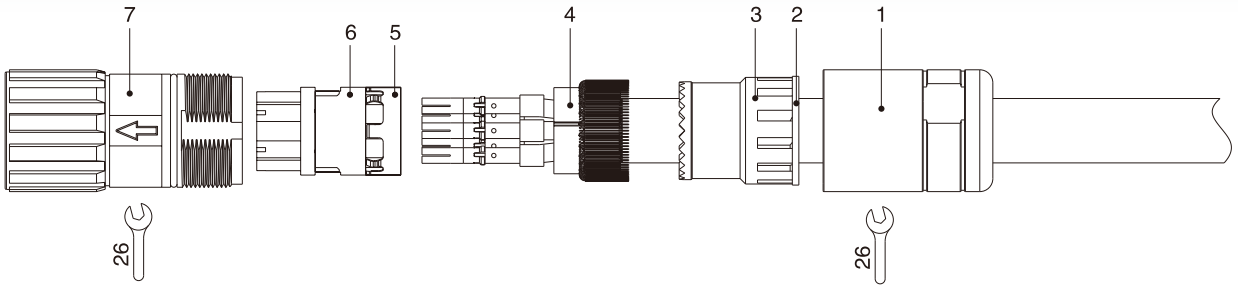


Assembly instructions：

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;

M23 Power Connectors/Assembly Instructions

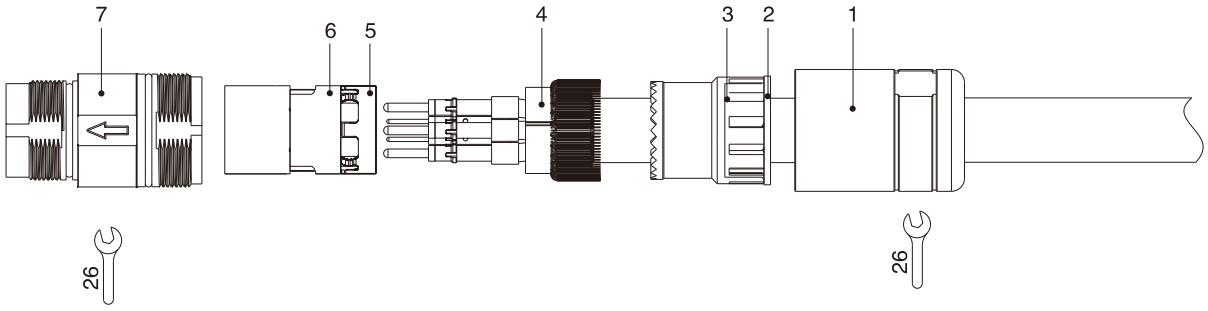
Straight Connector, Female Thread



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

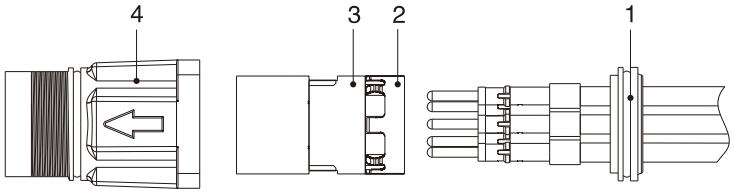


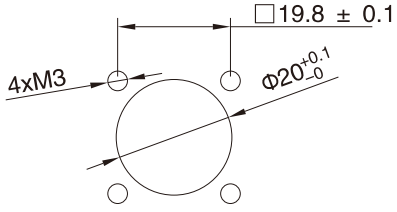
Assembly instructions

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 Connectors/Assembly Instructions

Straight Connector, Male Thread



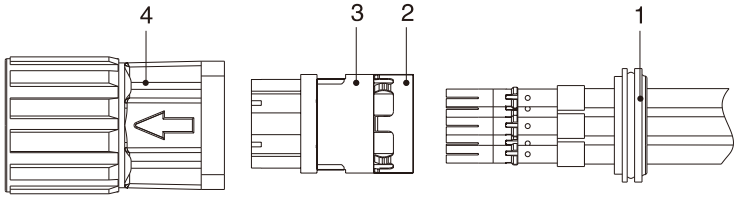


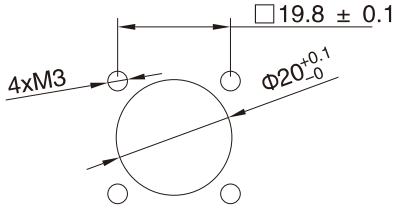
Installation dimensions

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).

Straight Connector, Female Thread





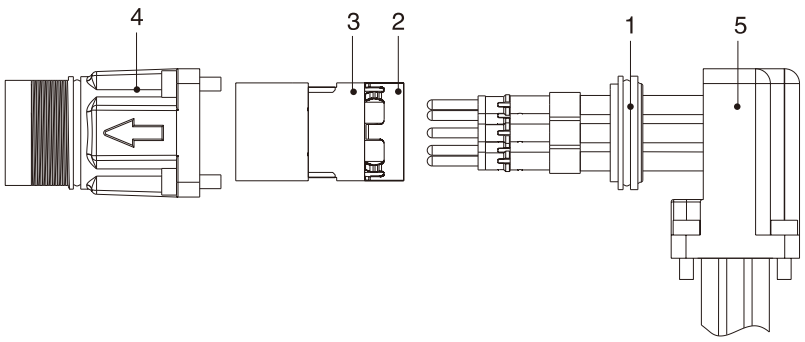
Installation dimensions

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).

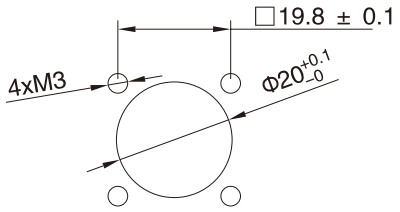
M23 Power Connectors/Assembly Instructions

Angled Connector, Male Thread



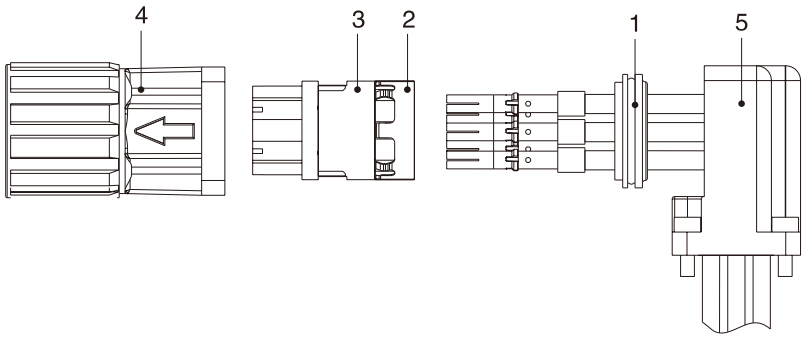
Assembly instructions:

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).



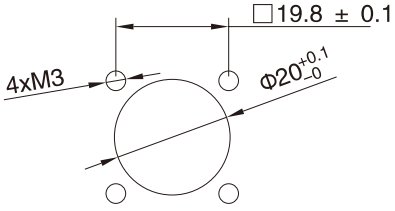
Installation dimensions

Angled Connector, Female Thread



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).



Installation dimensions

Industrial **Circular**
connectors





RD24 cables & connectors

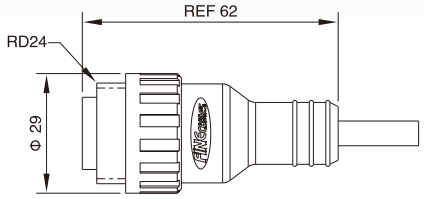
We have extended our range of circular connectors provided with the addition of the RD24 series. This series is divided into over–molded cables, field wiring assembly, and panel mount type, offered with 3+PE or 6+PE poles. Screw joints and soldering termination is available for connecting systems. When in a locked condition, this series is sealed to an IP67 rating.

- Degree of protection IP 67
- 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 Male Molded Cable, Straight

- Connector series: RD24
- Gender: Male
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MA24MAP**STXXXXXX

** refers to pins number
X refers to cable specification





General information

Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–20℃ ~ +80℃(flexible installation)
Connector insert:	PBT
Connector contacts:	Brass with silver plated
Coupling nut/screw:	PA

Insulation resistance:	⩾100 MΩ
Contact resistance:	⩽5 mΩ
Shielding:	Unavailable
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Wire gauge / size		Cable jacket	Cable ending & length
				A/C	D/C	AWG	mm²		
1+PE (02)		Solder version	12A	600V	600V	AWG18~14	0.75	PUR/PVC	Customized cable ending and length
2+PE (03)		Solder version	12A	600V	600V	AWG18~14	0.75		
3+PE (04)		Solder version	12A	600V	600V	AWG18~14	0.75		
6+PE (07)		Solder version	8A	250V	250V	AWG22~16	0.34~1.5		

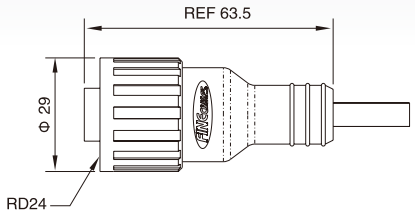
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 13 for products' part number encoding rule.

RD24 Female Molded Cable, Straight

- Connector series: RD24
- Gender: Female
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MA24FAP**STXXXXXX

** refers to pins number
X refers to cable specification





General information

Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–20℃ ~ +80℃(flexible installation)
Connector insert:	PBT
Connector contacts:	Brass with silver plated
Coupling nut/screw:	PA
Seal / O–ring:	Epoxy resin / EPDM

Insulation resistance:	⩾100 MΩ
Contact resistance:	⩽5 mΩ
Shielding:	Unavailable
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Wire gauge / size		Cable jacket	Cable ending & length
				A/C	D/C	AWG	mm²		
1+PE (02)		Solder version	12A	600V	600V	AWG18~14	0.75	PUR/PVC	Customized cable ending and length
2+PE (03)		Solder version	12A	600V	600V	AWG18~14	0.75		
3+PE (04)		Solder version	12A	600V	600V	AWG18~14	0.75		
6+PE (07)		Solder version	8A	250V	250V	AWG22~16	0.34~1.5		

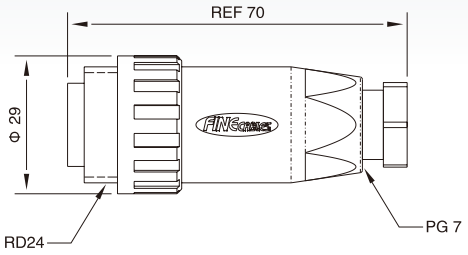
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 13 for products' part number encoding rule.

RD24 Male Field Wirable Assembly, Straight, Solder

- Connector series: RD24
- Gender: Male
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MB24MAAFP**ST–4

** refers to pins number





General information

Ambient temperature:	–25℃ ~ +125 ℃
Connector insert:	PBT
Connector contacts:	Brass with silver plated
Coupling nut/screw:	PA
Termination type:	Solder

Insulation resistance:	⩾100 MΩ
Contact resistance:	⩽5 mΩ
Shielding:	Unavailable
Suitable cable Dia.:	PG7: 4~6mm
Seal / O–ring:	Epoxy resin / EPDM
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Wire gauge / size		Wire insulation	Cable ending & length
				A/C	D/C	AWG	mm²		
1+PE (02)		Solder version	12A	600V	600V	AWG18~14	0.75	PVC wire or customized	Customized cable ending and length
2+PE (03)		Solder version	12A	600V	600V	AWG18~14	0.75		
3+PE (04)		Solder version	12A	600V	600V	AWG18~14	0.75		
6+PE (07)		Solder version	8A	250V	250V	AWG22~16	0.34~1.5		

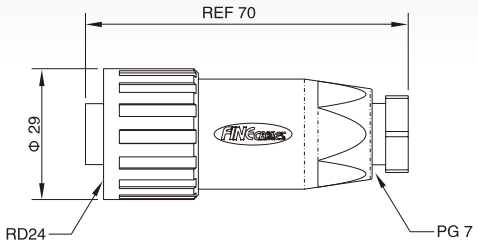
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 13 for products' part number encoding rule.

RD24 Female Field Wirable Assembly, Straight, Solder

- Connector series: RD24
- Gender: Female
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MB24FAAFP**ST–4

** refers to pins number





General information

Ambient temperature:	–25℃ ~ +125 ℃
Connector insert:	PBT
Connector contacts:	Brass with silver plated
Coupling nut/screw:	PA
Termination type:	Solder

Insulation resistance:	⩾100 MΩ
Contact resistance:	⩽5 mΩ
Shielding:	Unavailable
Suitable cable Dia.:	PG7: 4~6mm
Seal / O–ring:	Epoxy resin / EPDM
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Wire gauge / size		Wire insulation	Cable ending & length
				A/C	D/C	AWG	mm²		
1+PE (02)		Solder version	12A	600V	600V	AWG18~14	0.75	PVC wire or customized	Customized cable ending and length
2+PE (03)		Solder version	12A	600V	600V	AWG18~14	0.75		
3+PE (04)		Solder version	12A	600V	600V	AWG18~14	0.75		
6+PE (07)		Solder version	8A	250V	250V	AWG22~16	0.34~1.5		

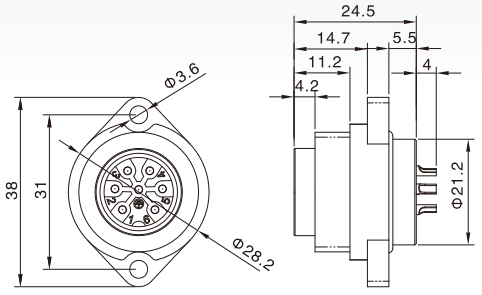
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 13 for products' part number encoding rule.

RD24 Male Panel Mount, Solder, Front fastened

- Connector series: RD24
- Gender: Male
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MB24MSAFPXXST

X refers to cable specification





General information

Ambient temperature:	–25℃ ~ +125 ℃	Insulation resistance:	⩾100 MΩ
Connector insert:	PBT	Contact resistance:	⩽5 mΩ
Connector contacts:	Brass with silver plated	Shielding:	Unavailable
Seal / O–ring:	EPDM	IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Wire gauge / size		Wire insulation	Cable ending & length
				A/C	D/C	AWG	mm²		
1+PE (02)		Solder version	12A	600V	600V	AWG18~14	1.0~2.0	PUR/PVC	Customized cable ending and length
2+PE (03)		Solder version	12A	600V	600V	AWG18~14	1.0~2.0		
3+PE (04)		Solder version	12A	600V	600V	AWG18~14	1.0~2.0		
6+PE (07)		Solder version	8A	250V	250V	AWG22~16	0.34~1.5		

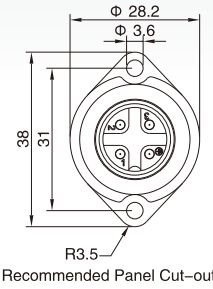
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 13 for products' part number encoding rule.

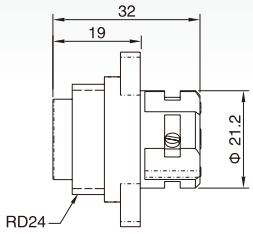
RD24 Male Panel Mount, Screw joint, Front fastened

- Connector series: RD24
- Gender: Male
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB24MWAFP**ST

** refers to pins number



Recommended Panel Cut–out





General information

Ambient temperature:	–25℃ ~ +125 ℃
Connector insert:	PBT
Connector contacts:	Brass with silver plated
Coupling nut/screw:	PBT
Termination type:	Screw

Insulation resistance:	⩾100 MΩ
Contact resistance:	⩽5 mΩ
Shielding:	Unavailable
Seal / O–ring:	Epoxy resin / EPDM
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Wire gauge / size		Wire insulation	Cable ending & length
				A/C	D/C	AWG	mm²		
1+PE (02)		Screw joint	12A	600V	600V	AWG18~14	0.75	PVC wire or customized	Customized cable ending and length
2+PE (03)		Screw joint	12A	600V	600V	AWG18~14	0.75		
3+PE (04)		Screw joint	12A	600V	600V	AWG18~14	0.75		

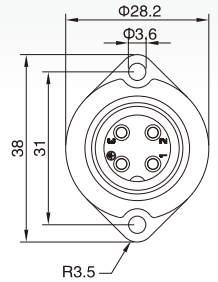
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 13 for products' part number encoding rule.

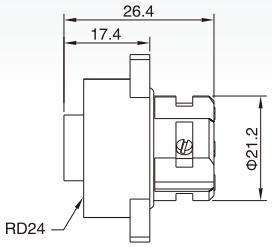
RD24 Female Panel Mount, Screw joint, Front fastened

- Connector series: RD24
- Gender: Female
- Locking type: Fix screw
- Mounting type: Front mount
- Part No.: MB24FWAFP**ST

** refers to pins number



Recommended Panel Cut–out





General information

Ambient temperature:	–25℃ ~ +125 ℃
Connector insert:	PBT
Connector contacts:	Brass with silver plated
Coupling nut/screw:	PBT
Termination type:	Screw

Insulation resistance:	⩾100 MΩ
Contact resistance:	⩽5 mΩ
Shielding:	Unavailable
Seal / O–ring:	Epoxy resin / EPDM
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts		Contacts termination	Rated current	Voltage		Wire gauge / size		Wire insulation	Cable ending & length
				A/C	D/C	AWG	mm²		
1+PE (02)		Screw joint	12A	600V	600V	AWG18~14	0.75	PVC wire or customized	Customized cable ending and length
2+PE (03)		Screw joint	12A	600V	600V	AWG18~14	0.75		
3+PE (04)		Screw joint	12A	600V	600V	AWG18~14	0.75		

Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 13 for products' part number encoding rule.

Solenoid **Valve** Connectors






Solenoid Valve Connectors

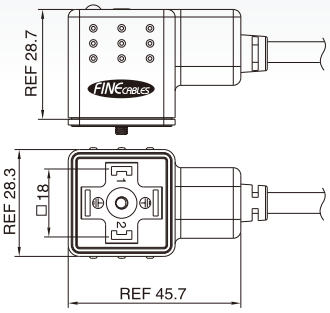
We have extended our range of circular connectors provided with the addition of the RD24 series. This series is divided into over–molded cables, field wiring assembly, and panel mount type, offered with 3+PE or 6+PE poles. Screw joints and soldering termination is available for connecting systems. When in a locked condition, this series is sealed to an IP67 rating.

- Design as per DIN EN 175301–803，formerly DIN 43650
- Degree of protection IP 67
- Version A,B and C are available
- TPU over molded
- Cable length customized, PUR and PVC cable options
- LED indicator is available

Valve Plug, Female, Molded Cable, Type A

- Connector series: Valve plug
- Gender: Female
- Construction type: A
- Locking system: Central screw
- Part No.: VCAFMXX**–XXXXXX

** refers to pins number
X refers to cable specification





General information

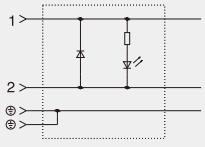
Standard:	DIN EN 175 301–803–A
Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–20℃ ~ +80℃(flexible installation)
Termination:	Soldering
Pin dimensions:	6.3x0.8mm,4.8x0.8mm
Connector overmold:	TPU
Contact bearer material:	PA+GF
Housing material:	PC
Contact:	PS with silver plated
Screw:	Steel with Zn plated
Seal:	FKM
Gasket:	TPU/NBR

Rated voltage:	24V/250V
Rated impulse voltage:	800V/4000V
Rated current:	8A/10A
Insulation resistance:	⩾100 MΩ
Contact resistance:	⩽4 mΩ
IP rating:	IP 67 in locked condition
Cable type:	PVC or PUR cable
Conductor size:	max.1.5mm^2

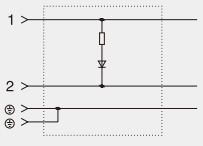
Electrical data & Mechanical data

Contacts	
3+PE	
2+2PE	
2+PE	
3P	
4P	

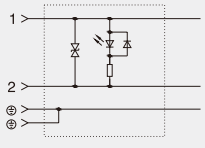
Normal circuit diagram



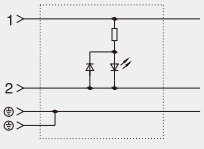
01



02



03



04

Customized Circuit Diagram

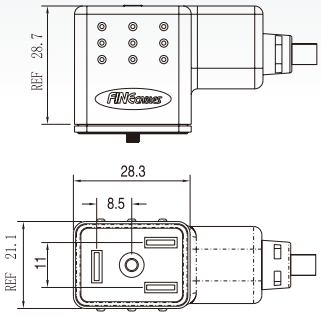
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm^2.
- Please refer to Page 21 for products' part number encoding rule.

Valve Plug, Female, Molded Cable, Type B

- Connector series: Valve plug
- Gender: Female
- Construction type: B
- Locking system: Central screw
- Part No.: VCBFMXX**–XXXXXX

** refers to pins number
X refers to cable specification



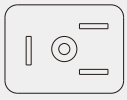


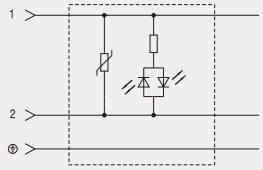
General information

Standard:	Industrial standard
Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–20℃ ~ +80℃(flexible 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:	⩾100 MΩ
Contact resistance:	⩽4 mΩ
IP rating:	IP 67 in locked condition
Cable type:	PVC or PUR cable
Conductor size:	max.1.5mm^2

Electrical data & Mechanical data

Contacts	
2+PE	

Normal circuit diagram	
 01	……
Customized Circuit Diagram	

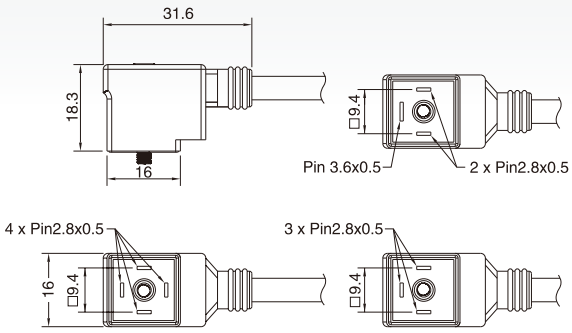
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm^2.
- Please refer to Page 21 for products' part number encoding rule.

Valve Plug, Female, Molded Cable, Type C

- Connector series: Valve plug
- Gender: Female
- Construction type: C
- Locking system: Central screw
- Part No.: VCCFMXX**–XXXXXX

** refers to pins number
X refers to cable specification





General information

Standard:	Industrial standard
	–40℃ ~ +80℃(fixed installation)
Ambient temperature:	–20℃ ~ +80℃(flexible installation)
Termination:	Soldering
Pin dimensions:	2.8x0.5mm,3.6x0.5mm
Connector overmold:	TPU
Contact bearer material:	PA+GF
Contact:	PS with silver plated
Screw:	Steel with Zn plated
Seal:	FKM

Rated voltage:	250V
Rated impulse voltage:	800V
Rated current:	6A
Insulation resistance:	⩾100 MΩ
Contact resistance:	⩽4 mΩ
IP rating:	IP 67 in locked condition
Cable type:	PVC or PUR cable
Conductor size:	max.0.5mm^2

Electrical data & Mechanical data

Contacts		Normal circuit diagram	
3+PE		……	00
2+2PE		……	…
2+PE		……	…
3P		……	…
4P		Customized Circuit Diagram	

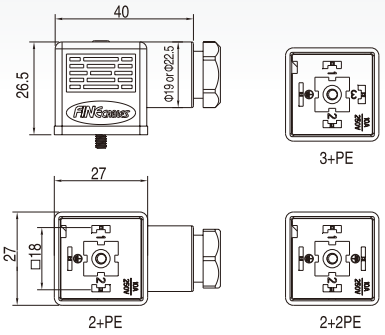
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm^2.
- Please refer to Page 21 for products' part number encoding rule.

Valve Plug, Female, Field Wirable Assembly, Type A, PG9 / PG11

- Connector series: Valve plug
- Gender: Female
- Construction type: A
- Locking system: Central screw
- Part No.: VCAFAXX**

** refers to pins number





General information

Standard:	DIN EN 175 301–803–A
Ambient temperature:	–30 ℃ ~ + 125℃
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
Seal:	FKM/NBR
Gasket:	NBR

Rated voltage:	250V
Rated impulse voltage:	4000V
Rated current:	10A
Insulation resistance:	⩾100 MΩ
Contact resistance:	⩽4 mΩ
IP rating:	IP 65 in locked condition
Cable gland:	PG9 / PG11
Suitable cables(Dia.):	4.5~7.0mm/6.0~9.0mm
Conductor size:	max.1.5mm^2

Electrical data & Mechanical data

Contacts		Normal circuit diagram	
3+PE		……	00
2+2PE		……	…
2+PE		……	…
3P		……	…
4P		Customized Circuit Diagram	

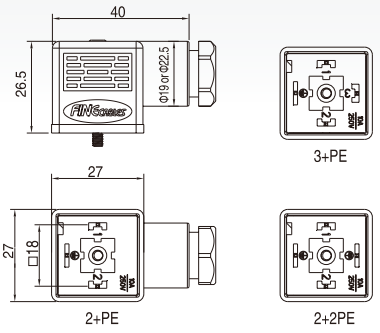
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm^2.
- Please refer to Page 22 for products' part number encoding rule.

Valve Plug, Female, Field Wirable Assembly, Type A with LED

- Connector series: Valve plug
- Gender: Female
- Construction type: A
- Locking system: Central screw
- Part No.: VCAFAXX**–LED

** refers to pins number





General information

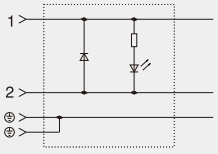
Standard:	DIN EN 175 301–803–A
Ambient temperature:	–25 ℃ ~ + 90 ℃
Termination:	Screw
Pin dimensions:	6.3x0.8mm,4.8x0.8mm
Housing color:	Transparent
Contact bearer material:	PA+GF
Housing material:	PC
Contact:	PS with silver plated
Screw:	Steel with Zn plated
Seal:	FKM/NBR
Gasket:	NBR

Rated voltage:	24V
Rated impulse voltage:	800V
Rated current:	8A
Insulation resistance:	⩾ 100 MΩ
Contact resistance:	⩽4 mΩ
IP rating:	IP 65 in locked condition
Cable gland:	PG9 / PG11
Suitable cables(Dia.):	4.5~7.0mm/6.0~9.0mm
Conductor size:	max.1.5mm^2

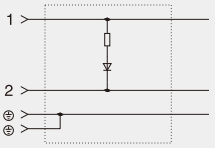
Electrical data & Mechanical data

Contacts	
3+PE	
2+2PE	
2+PE	
3P	
4P	

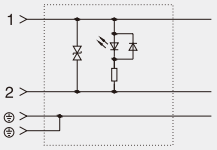
Normal circuit diagram



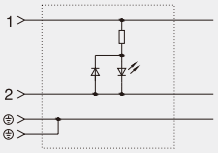
01



02



03



04

Customized Circuit Diagram

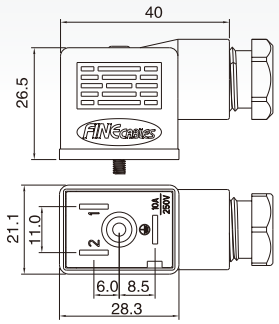
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm^2.
- Please refer to Page 22 for products' part number encoding rule.

Valve Plug, Female, Field Wirable Assembly, Type B

- Connector series: Valve plug
- Gender: Female
- Construction type: B
- Locking system: Central screw
- Part No.: VCBFAXX**

** refers to pins number





General information

Standard:	Industrial standard
Ambient temperature:	–30 ℃~ + 125 ℃
Termination:	Screw
Pin dimensions:	6.3x0.8mm,4.8x0.8mm
Housing color:	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:	⩾100 MΩ
Contact resistance:	⩽4 mΩ
IP rating:	IP 65 in locked condition
Cable gland:	PG9
Suitable cables(Dia.):	4.5~7.0mm
Conductor size:	max.1.5mm^2

Electrical data & Mechanical data

Contacts	
2+PE	

Normal circuit diagram	
……	00

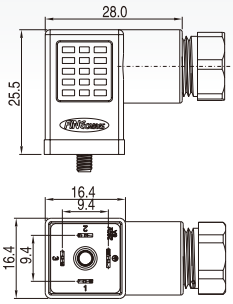
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm^2.
- Please refer to Page 22 for products' part number encoding rule.

Valve Plug, Female, Field Wirable Assembly, Type C

- Connector series: Valve plug
- Gender: Female
- Construction type: C
- Locking system: Central screw
- Part No.: VCCFAXX**

** refers to pins number





General information

Standard:	Industrial standard
Ambient temperature:	–30 ℃~ + 125 ℃
Termination:	Screw
Pin dimensions:	4.6x0.5mm,3.8x0.5mm
Housing color:	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:	⩾100 MΩ
Contact resistance:	⩽4 mΩ
IP rating:	IP 65 in locked condition
Cable gland:	PG7
Suitable cables(Dia.):	4.0~6.0mm
Conductor size:	0.5mm^2

Electrical data & Mechanical data

Contacts	
3+PE	

Normal circuit diagram	
……	00

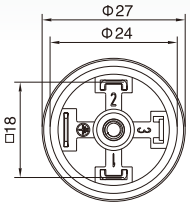
Remarks

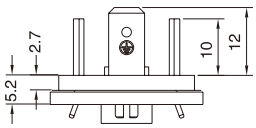
- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm^2.
- Please refer to Page 22 for products' part number encoding rule.

Valve Plug, Male Base Conn., Type A, Circular

- Connector series: Valve plug
- Gender: Male
- Construction type: A
- Locking system: Central nut
- Part No.: VCAMA01**–0

** refers to pins number







General information

Standard:	DIN EN 175 301–803–A
Ambient temperature:	–30 ℃ ~ + 125℃
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:	⩾ 100 MΩ
Contact resistance:	⩽4 mΩ
IP rating:	IP 65 in locked condition

Electrical data & Mechanical data

Contacts		Normal circuit diagram	
3+PE		……	00
2+2PE		……	…
2+PE		……	…
3P		……	…
4P		Customized Circuit Diagram	

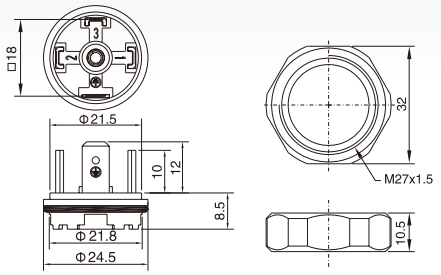
Remarks

• Please refer to Page 22 for products' part number encoding rule.

Valve Plug, Male Base Conn., Type A, Circular, with Hexagonal Nut

- Connector series: Valve plug
- Gender: Male
- Construction type: A
- Locking system: Central nut
- Part No.: VCAMA03**–1

** refers to pins number





General information

Standard:	DIN EN 175 301–803–A
Ambient temperature:	–30 ℃ ~ + 125℃
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:	⩾ 100 MΩ
Contact resistance:	⩽4 mΩ
IP rating:	IP 65 (In locked condition)

Electrical data & Mechanical data

Contacts		Normal circuit diagram	
3+PE		……	00
2+2PE		……	…
2+PE		……	…
3P		……	…
4P		Customized Circuit Diagram	

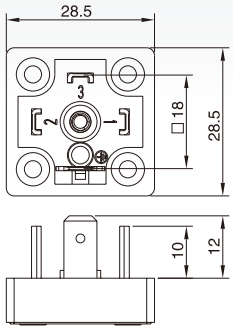
Remarks

• Please refer to Page 22 for products' part number encoding rule.

Valve Plug, Male Base Conn., Type A, Rectangular

- Connector series: Valve plug
- Gender: Male
- Construction type: A
- Locking system: Central nut
- Part No.: VCAMA02**–0

** refers to pins number





General information

Standard:	DIN EN 175 301–803–A
Ambient temperature:	–30 ℃ ~ + 125℃
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:	⩾ 100 MΩ
Contact resistance:	⩽4 mΩ
IP rating:	IP 65 (In locked condition)

Electrical data & Mechanical data

Contacts		Normal circuit diagram	
3+PE		……	00
2+2PE		……	…
2+PE		……	…
3P		……	…
4P		Customized Circuit Diagram	

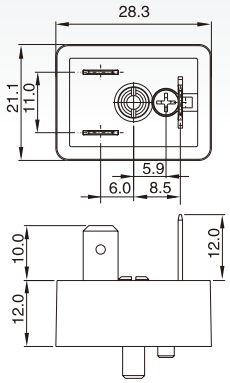
Remarks

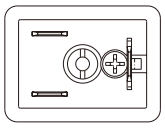
• Please refer to Page 22 for products' part number encoding rule.

Valve Plug, Male Base Conn., Type B, Rectangular

- Connector series: Valve plug
- Gender: Male
- Construction type: B
- Locking system: Central nut
- Part No.: VCBMA02**–0

** refers to pins number







General information

Standard:	Industrial standard
Ambient temperature:	–30 ℃~ + 125 ℃
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:	AC/DC 250V
Rated impulse voltage:	4000V
Rated current:	16A
Insulation resistance:	⩾ 100 MΩ
Contact resistance:	⩽ 4 mΩ
IP rating:	IP 65 in locked condition

Electrical data & Mechanical data

Contacts		Normal circuit diagram	
2+PE		……	00

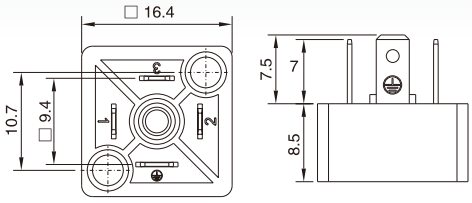
Remarks

• Please refer to Page 22 for products' part number encoding rule.

Valve Plug, Male Base Conn., Type C, Rectangular

- Connector series: Valve plug
- Gender: Male
- Construction type: C
- Locking system: Central nut
- Part No.: VCCMAXX**

** refers to pins number





General information

Standard:	Industrial standard
Ambient temperature:	–30 ℃~ + 125 ℃
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:	AC/DC 250V
Rated impulse voltage:	800V
Rated current:	6A
Insulation resistance:	⩾ 100 MΩ
Contact resistance:	⩽ 4 mΩ
IP rating:	IP 65 in locked condition

Electrical data & Mechanical data

Contacts		Normal circuit diagram	
2+PE		……	……
2+2PE		……	……
3+PE		Customized Circuit Diagram	

Remarks

• Please refer to Page 22 for products' part number encoding rule.

Industrial **I/O**
connectors





Industrial I/O connectors

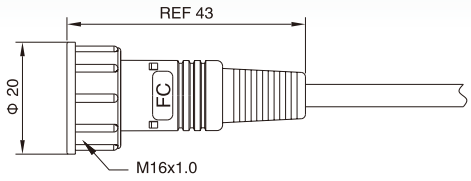
Industrial Ethernet now links automation technology to standard networks and the Internet world. We are proud to lead the way in standard connectors linking the office world to the demanding industrial setting and offer special solutions for cabling and assembling. Our I/0 connectors are sealed to an IP67 rating, along with EMC protection. We offer various Ethernet products, including RJ45 connectors, USB 2.0, Mini–DIN, D–sub connectors, 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

Mini-Din Male Molded Cable, Straight

- Connector series: Mini–Din
- Gender: Male
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MD–WM**STMF–XXXXXX

** refers to pins number
X refers to cable specification





General information

Ambient temperature:	–20℃ ~ + 80℃
Connector insert:	PBT
Connector contacts:	Brass with silver plated
Connector overmold:	TPU
Coupling nut/screw:	PA + GF
Seal/O–ring:	FKM

Insulation resistance:	⩾ 20MΩ
Contact resistance :	⩽ 20mΩ
Shielding:	Available
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts		Voltage(Rated current)		Wire gauge / size		Cable jacket	Wire insulation	Cable ending & length
		A/C(current)	D/C(current)	AWG	mm^2			
03 pins		100V(1.0A)	12V(1.5A)	24AWG	0.25	PUR / PVC	PVC	Customized cable ending and length
04 pins		100V(1.0A)	12V(1.5A)	24AWG	0.25	PUR / PVC	PVC	
05 pins		100V(1.0A)	12V(1.5A)	24AWG	0.25	PUR / PVC	PVC	
06 pins		100V(1.0A)	12V(1.5A)	24AWG	0.25	PUR / PVC	PVC	
07 pins		100V(1.0A)	12V(1.5A)	24AWG	0.25	PUR / PVC	PVC	
08 pins		100V(1.0A)	12V(1.5A)	24AWG	0.25	PUR / PVC	PVC	
09 pins		100V(1.0A)	12V(1.5A)	24AWG	0.25	PUR / PVC	PVC	

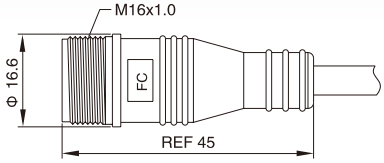
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm^2.
- Please refer to Page 20 for products' part number encoding rule.

Mini-Din Female Molded Cable, Straight

- Connector series: Mini–Din
- Gender: Female
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: MD–WF**STMF–XXXX25

** refers to pins number
X refers to cable specification





General information

Ambient temperature:	–20 ℃ ~ + 80 ℃
Connector insert:	PBT
Connector contacts:	Brass with silver plated
Connector overmold:	TPU
Coupling nut/screw:	PA + GF

Insulation resistance:	⩾ 20MΩ
Contact resistance :	⩽ 20mΩ
Shielding:	Available
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts		Voltage(Rated current)		Wire gauge / size		Cable jacket	Wire insulation	Cable ending & length
		A/C(current)	D/C(current)	AWG	mm²			
03 pins		100V(1.0A)	12V(1.5A)	24AWG	0.25	PUR / PVC	PVC	Customized cable ending and length
04 pins		100V(1.0A)	12V(1.5A)	24AWG	0.25	PUR / PVC	PVC	
05 pins		100V(1.0A)	12V(1.5A)	24AWG	0.25	PUR / PVC	PVC	
06 pins		100V(1.0A)	12V(1.5A)	24AWG	0.25	PUR / PVC	PVC	
07 pins		100V(1.0A)	12V(1.5A)	24AWG	0.25	PUR / PVC	PVC	
08 pins		100V(1.0A)	12V(1.5A)	24AWG	0.25	PUR / PVC	PVC	
09 pins		100V(1.0A)	12V(1.5A)	24AWG	0.25	PUR / PVC	PVC	

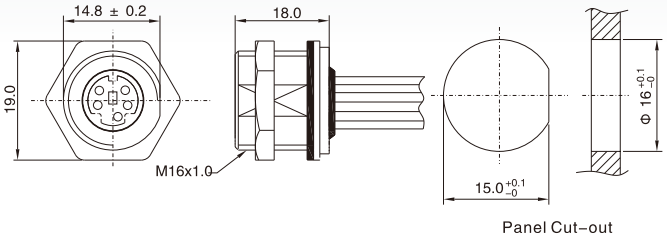
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 20 for products' part number encoding rule.

Mini-Din Female Panel Mount, Solder, Front fastened

- Connector series: Mini–Din
- Gender: Female
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MD–WF**STSF

** refers to pins number





General information

Ambient temperature:	–20 ℃ ~ + 80 ℃
Connector insert:	PBT
Connector contacts:	Brass with silver plated
Coupling nut/screw:	PA+GF
Seal / O–ring:	FKM

Insulation resistance:	⩾ 20MΩ
Contact resistance :	⩽ 20mΩ
Shielding:	Available
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts		Voltage(Rated current)		Wire gauge / size		Wire insulation	Wire ending & length
		A/C(current)	D/C(current)	AWG	mm²		
3 pins		100V(1.0A)	12V(1.5A)	24AWG	0.25	PVC wire or customized	Customized wire ending and length
4 pins		100V(1.0A)	12V(1.5A)	24AWG	0.25		
5 pins		100V(1.0A)	12V(1.5A)	24AWG	0.25		
6 pins		100V(1.0A)	12V(1.5A)	24AWG	0.25		
7 pins		100V(1.0A)	12V(1.5A)	24AWG	0.25		
8 pins		100V(1.0A)	12V(1.5A)	24AWG	0.25		
9 pins		100V(1.0A)	12V(1.5A)	24AWG	0.25		

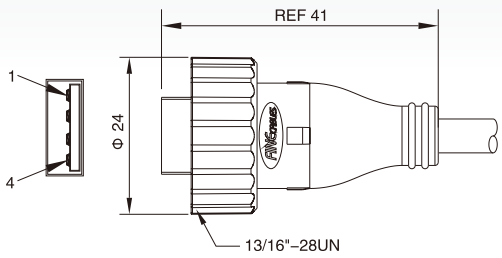
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm².
- Please refer to Page 20 for products' part number encoding rule.

USB2.0 Male Molded Cable, Straight

- Connector series: USB 2.0
- Gender: Male
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: USB–WM04STMF–XXCB

X refers to cable specification





General information

Ambient temperature:	–20 ℃ ~ + 80 ℃
Connector insert:	PBT
Connector contacts:	Brass with gold plated
Connector overmold:	TPU
Coupling nut/screw:	PA + GF
Seal/O–ring:	FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance :	⩽ 30mΩ
Shielding:	Available
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

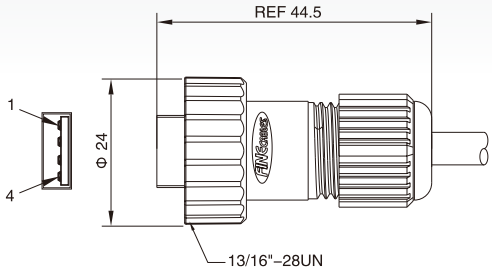
Contacts	Rated current	Voltage		Cable jacket	Wire insulation	Cable ending & length
		A/C	D/C			
USB 2.0 A type male	1.5A	30V	30V	PVC	PVC	Customized cable ending and length

Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm^2.
- Please refer to Page 20 for products' part number encoding rule.

USB2.0 Male Field Wirable Assembly, Straight

- Connector series: USB 2.0
- Gender: Male
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: USB–WM04STAF





General information

Ambient temperature:	–20 ℃ ~ + 80 ℃
Connector insert:	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:	IP 67 in locked condition

Electrical data & Mechanical data

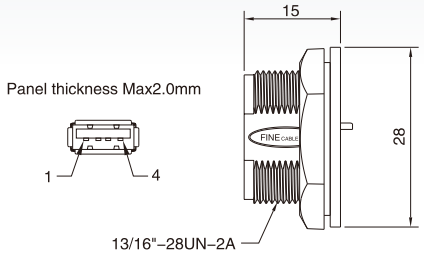
Contacts	Rated current	Voltage		Cable jacket	Wire insulation	Cable ending & length
		A/C	D/C			
USB 2.0 A type male	1.5A	30V	30V	PVC	PVC	Customized cable ending and length

Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm^2.
- Please refer to Page 20 for products' part number encoding rule.

USB2.0 Female Panel Mount, Solder, Front fastened

- Connector series: USB 2.0
- Gender: Female
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: USB–WF04STSP





General information

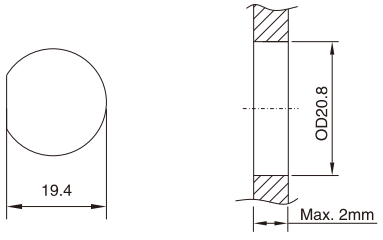
Ambient temperature:	–20 ℃ ~ + 80 ℃
Connector insert:	PBT+GF
Connector contacts:	Phosphor bronze with gold plated
Connector body:	PA+GF
Coupling nut/screw:	PA+GF
Seal/O–ring:	FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance :	⩽ 30mΩ
Shielding:	Available
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts	Contacts	Rated current	Voltage		Wire	Wire ending & length
			A/C	D/C		
USB2.0 A Type female	Solder version	1.5A	30V	30V	PVC wire or customized	Customized wire ending and length

Panel Cut–out Dimensions:



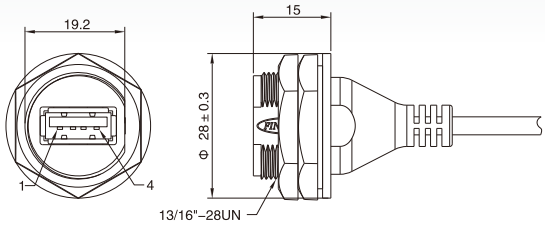
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm^2.
- Please refer to Page 20 for products' part number encoding rule.

USB2.0 Female Panel Mount+SR, Solder, Front fastened

- Connector series: USB 2.0
- Gender: Female
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: USB–WF04STSP–XXX

X refers to cable specification





General information

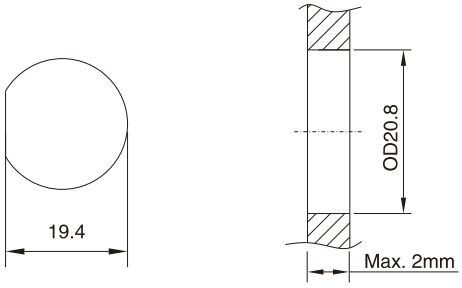
Ambient temperature:	–20 ℃ ~ + 80 ℃
Connector insert:	PBT+GF
Connector contacts:	Phosphor bronze with gold plated
Connector body:	PA+GF
Coupling nut/screw:	PA+GF
SR over–molded:	TPU
Seal/O–ring:	FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance :	⩽ 30mΩ
Shielding:	Available
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts	Contacts	Rated current	Voltage		Wire	Wire ending & length
			A/C	D/C		
USB2.0 A Type female	Solder version	1.5A	30V	30V	PVC wire or customized	Customized wire ending and length

Panel Cut–out Dimensions:

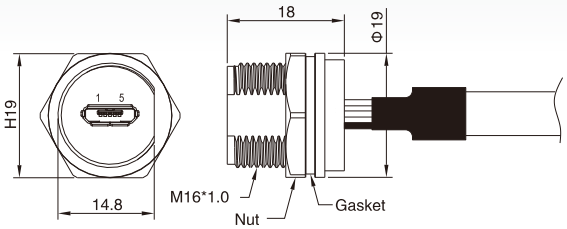


Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm^2.
- Please refer to Page 20 for products' part number encoding rule.

Micro-USB, Female Panel Mount, Solder, Front fastened

- Connector series: Micro–USB
- Gender: Female
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB–WF05STSP–Micro
  - suitable cable Dia: A: 3.5~4.5mm
    B: 4.5~5.5mm





General information

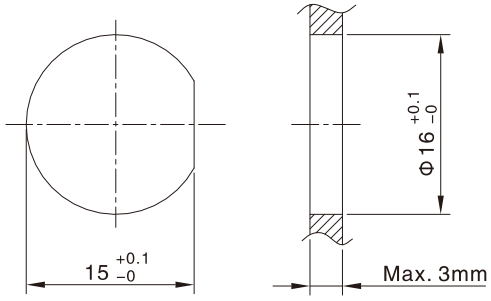
Ambient temperature:	–20 ℃ ~ +80 ℃
Connector insert:	LCP+GF/PBT
Connector contacts:	Brass with gold plated
Connector nut/screw:	PA+GF
Connector body:	PA+GF
Seal / O–ring:	FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance:	⩽ 30 mΩ
Shielding:	Available
IP rating:	IP67 in locked condition

Electrical data & Mechanical data

Contacts	Contacts termination	Rated current	Voltage		Wire	Cable ending & length
			A/C	D/C		
Micro USB 5PB type female	Solder version	1A	30V	30V	PVC wire or customized	Customized cable ending and length

Panel Cut–out Dimensions:



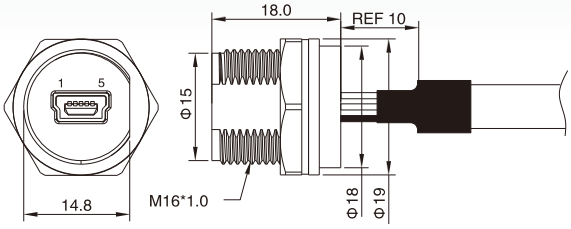
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm^2.
- Please refer to Page 14 for products'part number encoding rule.

Mini-USB, Female Panel Mount, Solder, Front fastened

- Connector series: Mini–USB
- Gender: Female
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: MB–WF05STSP–XXX

X refers to cable specification





General information

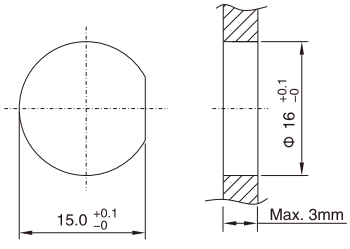
Ambient temperature:	–20 ℃ ~ + 80 ℃
Connector insert:	PBT+GF
Connector contacts:	Phosphor bronze with gold plated
Connector body:	PA+GF
Coupling nut/screw:	PA+GF
Seal/O–ring:	FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance :	⩽ 50mΩ
Shielding:	Available
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts	Contacts	Rated current	Voltage		Wire	Wire ending & length
			A/C	D/C		
Mini USB 5P B Type Female	Solder version	1A	30V	30V	PVC wire or customized	Customized wire ending and length

Panel Cut–out Dimensions:



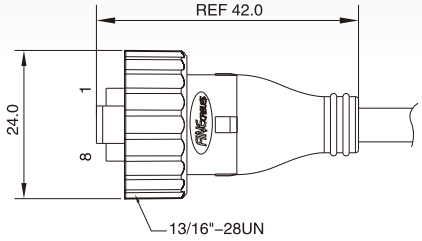
Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm^2.
- Please refer to Page 20 for products' part number encoding rule.

RJ45 Male Molded Cable

- Connector series: RJ45
- Gender: Male
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: RJ45–WM08STMF–XXXX25

X refers to cable specification





General information

Ambient temperature:	–20 ℃ ~ + 60 ℃
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:	IP 67 in locked condition

Electrical data & Mechanical data

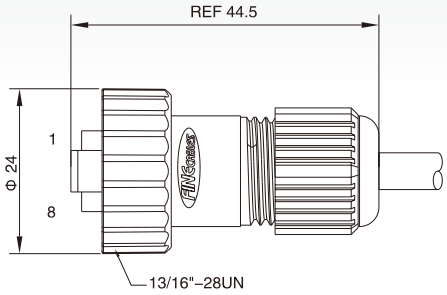
Contacts	Rated current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Cable ending & length
		A/C	D/C	AWG	mm^2			
RJ45 8P8C male	1.5A	125V	125V	24AWG	0.25	PVC	PE	Customized cable ending and length

Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm^2.
- Please refer to Page 20 for products' part number encoding rule.

RJ45 Male Field Wirable Assembly, Straight

- Connector series: RJ45
- Gender: Male
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: RJ45S–WM08STAF





General information

Ambient temperature:	–20 ℃ ~ + 60 ℃
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:	IP 67 in locked condition

Electrical data & Mechanical data

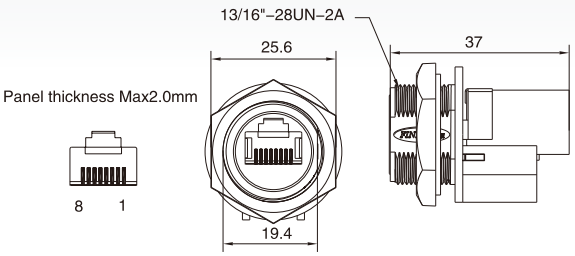
Contacts	Rated current	Voltage		Wire gauge / size		Cable jacket	Wire insulation	Cable ending & length
		A/C	D/C	AWG	mm^2			
RJ45 8P 8C male	1.5A	125V	125V	24AWG	0.25	PVC	PE	Customized cable ending and length

Remarks

- Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm^2.
- Please refer to Page 20 for products' part number encoding rule.

RJ45 Female Panel Mount, Front fastened

- Connector series: RJ45
- Gender: Female
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: RJ45S–WF08STSP





General information

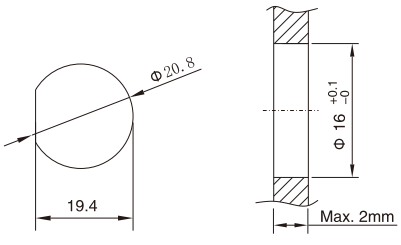
Ambient temperature:	–20 ℃ ~ + 80 ℃
Connector insert:	PBT+GF
Connector contacts:	Phosphor bronze with gold plated
Coupling nut/screw:	PA+GF
Seal / O–ring:	FKM

Insulation resistance:	⩾ 100MΩ
Contact resistance :	⩽ 30mΩ
Shielding:	Available
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts	Rated current	Voltage	
		A/C	D/C
RJ45 8P8C female	1.5A	125V	125V

Panel Cut–out Dimensions:

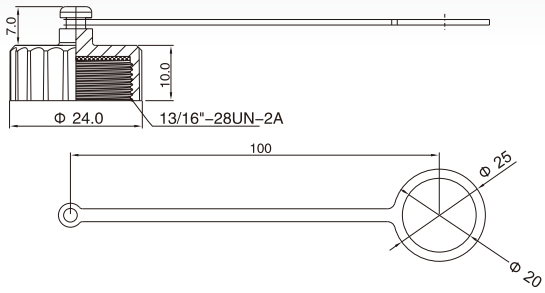


Remarks

• Please refer to Page 20 for products' part number encoding rule.

USB/RJ45 Protection cap for Male Panel-mount Connector

- Connector series: USB/RJ45
- Gender: for Male
- Locking type: Fix screw
- Part No.: PCN13/16"–28UN–1



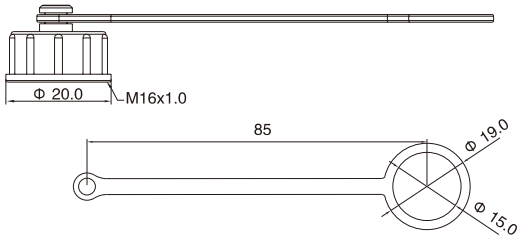


General information

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 Male Panel-mount Connector

- Connector series: Mini–USB/Micro–USB/Mini–Din
- Gender: for Male
- Locking type: Fix screw
- Part No.: PCN16x1.0–1



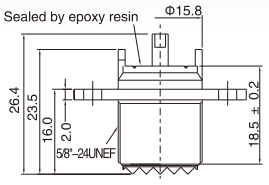


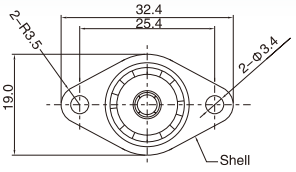
General information

Material:	PA+GF
O–ring:	FKM
Loop:	TPU
Color:	Black
Degree of protection:	IP67 in locked condition

Waterproof UHF Connector

- Connector series: UHF
- Gender: Female
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: UHF







General information

Ambient temperature:	–30 ℃ ~ + 85 ℃
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:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts	Rated current	Voltage	
		A/C	D/C
Solder version	1A	250V	250V

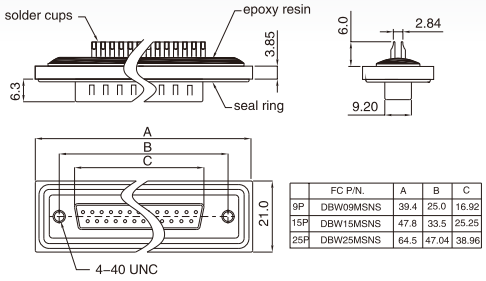
Remarks

• Please refer to Page 19 for products' part number encoding rule.

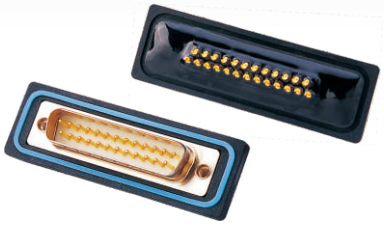
D-Sub Male Panel Mount, Solder

- Connector series: D–Sub
- Gender: Male
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: DBW**MSNS

** refers to pins number



	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



General information

Ambient temperature:	–25 ℃ ~ + 70 ℃
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:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts	Contacts	Rated current	Voltage	
			A/C	D/C
D–Sub 9P	Solder version	5A	300V	300V
D–Sub 15P	Solder version	5A	300V	300V
D–Sub 25P	Solder version	5A	300V	300V

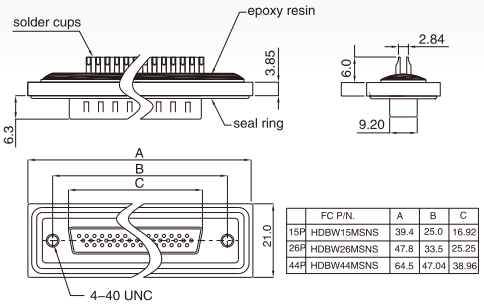
Remarks

• Please refer to Page 19 for products' part number encoding rule.

D-Sub Male Panel Mount, Solder

- Connector series: D–Sub
- Gender: Male
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: HDBW**MSNS

** refers to pins number



	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



General information

Ambient temperature:	–25 ℃ ~ + 70℃
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:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts	Contacts	Rated current	Voltage	
			A/C	D/C
D–Sub 15P	Solder version	5A	300V	300V
D–Sub 26P	Solder version	5A	300V	300V
D–Sub 44P	Solder version	5A	300V	300V

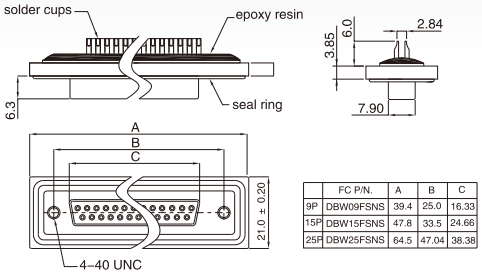
Remarks

• Please refer to Page 19 for products' part number encoding rule.

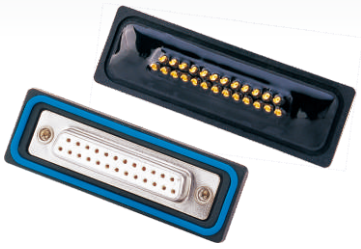
D-Sub Female Panel Mount, Solder

- Connector series: D–Sub
- Gender: Female
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: DBW**FSNS

** refers to pins number



	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



General information

Ambient temperature:	–25 ℃ ~ + 70 ℃
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:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts	Contacts	Rated current	Voltage	
			A/C	D/C
D–Sub 9P	Solder version	5A	300V	300V
D–Sub 15P	Solder version	5A	300V	300V
D–Sub 25P	Solder version	5A	300V	300V

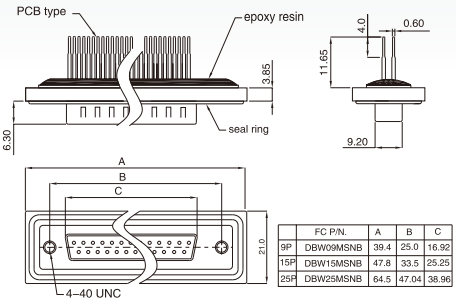
Remarks

• Please refer to Page 19 for products' part number encoding rule.

D-Sub Male Panel Mount, PCB Type

- Connector series: D–Sub
- Gender: Male
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: DBW**MSNB

** refers to pins number



	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



General information

Ambient temperature:	–25 ℃ ~ + 70 ℃
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:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts	Contacts	Rated current	Voltage	
			A/C	D/C
D–Sub 9P	PCB version	5A	300V	300V
D–Sub 15P	PCB version	5A	300V	300V
D–Sub 25P	PCB version	5A	300V	300V

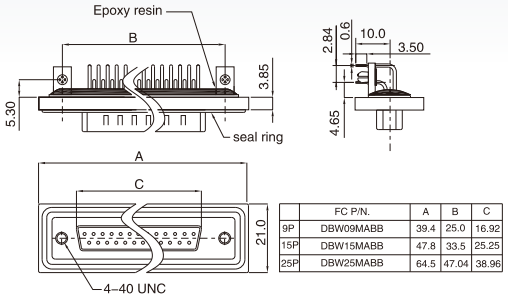
Remarks

• Please refer to Page 19 for products' part number encoding rule.

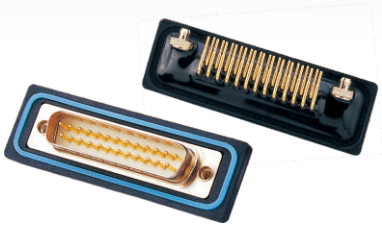
D-Sub Male Panel Mount, Angled Contacts PCB Type

- Connector series: D–Sub
- Gender: Male
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: DBW**MABB

** refers to pins number



	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



General information

Ambient temperature:	–25 ℃ ~ + 70 ℃
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:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts	Contacts	Rated current	Voltage	
			A/C	D/C
D–Sub 9P	PCB version	5A	300V	300V
D–Sub 15P	PCB version	5A	300V	300V
D–Sub 25P	PCB version	5A	300V	300V

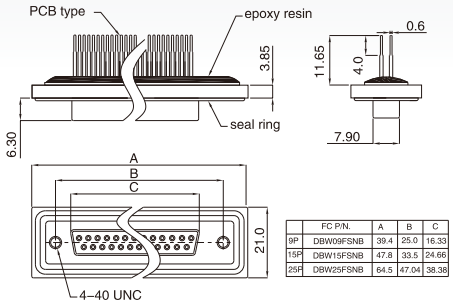
Remarks

• Please refer to Page 19 for products' part number encoding rule.

D-Sub Female Panel Mount, PCB Type

- Connector series: D–Sub
- Gender: Female
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: DBW**FSNB

** refers to pins number



	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



General information

Ambient temperature:	–25 ℃ ~ + 70 ℃
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:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts	Contacts	Rated current	Voltage	
			A/C	D/C
D–Sub 9P	PCB version	5A	300V	300V
D–Sub 15P	PCB version	5A	300V	300V
D–Sub 25P	PCB version	5A	300V	300V

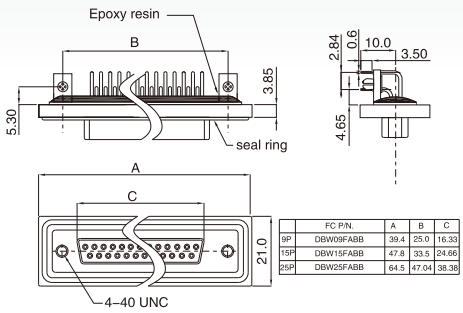
Remarks

• Please refer to Page 19 for products' part number encoding rule.

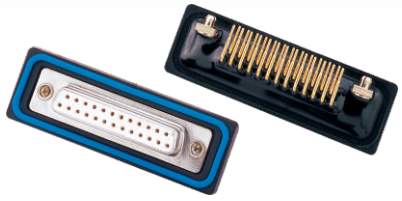
D-Sub Female Panel Mount, Angled Contacts PCB Type

- Connector series: D–Sub
- Gender: Female
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: DBW**FABB

** refers to pins number



	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



General information

Ambient temperature:	–25 ℃ ~ + 70 ℃
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:	IP 67 in locked condition

Electrical data & Mechanical data

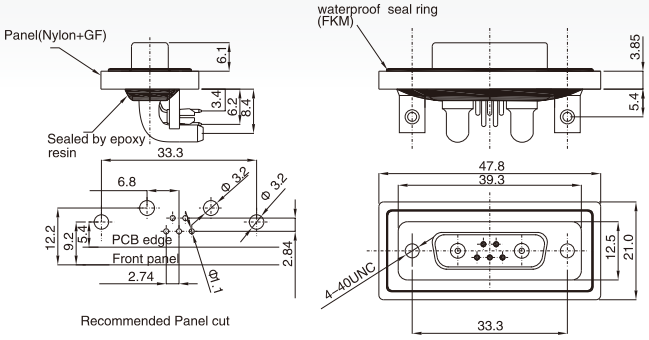
Contacts	Contacts	Rated current	Voltage	
			A/C	D/C
D–Sub 9P	PCB version	5A	300V	300V
D–Sub 15P	PCB version	5A	300V	300V
D–Sub 25P	PCB version	5A	300V	300V

Remarks

• Please refer to Page 19 for products' part number encoding rule.

D-Sub Male Panel mount, Angled Contacts PCB type

- Connector series: D–Sub
- Gender: Male
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: DBW7W2MANB–A



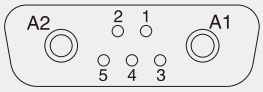


General information

Ambient temperature:	–20 ℃ ~ + 70 ℃
Connector insert:	PBT+GF
Connector contacts:	Brass with gold plated
Coupling nut/screw:	Brass with nickel plated
Seal / O–ring:	FKM

Insulation resistance:	⩾ 1000MΩ
Contact resistance :	⩽ 10mΩ
Shielding:	Unavailable
Mating cycles:	>1000
IP rating:	IP67 in locked condition

Electrical data & Mechanical data

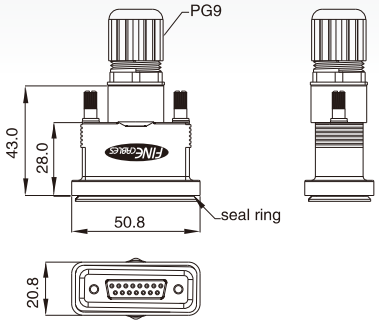
Contacts	Contacts	Rated current	Voltage	
			A/C	D/C
 7W2	PCB version	(PinA1&A2)30A	300V	300V
	PCB version	(Pin1~5)5A	300V	300V

Remarks

• Please refer to Page 19 for products' part number encoding rule.

D-Sub Field Wirable Assembly

- Connector series: D–Sub 15P assembly
- Gender: Male/Female
- Locking type: Fix screw
- Mounting type: Front fastened
- Part No.: DBW15MSNS–A(male)
  DBW15FSNS–A(female)





General information

Ambient temperature:	–25 ℃ ~ + 70 ℃
Connector insert:	PBT+GF
Connector contacts:	Brass with gold plated
Coupling nut/screw:	Brass nickel plated
Seal/O–ring:	FKM

Insulation resistance:	⩾ 1000MΩ
Contact resistance :	⩽ 10mΩ
Shielding:	Unavailable
IP rating:	IP 67 in locked condition

Electrical data & Mechanical data

Contacts	Rated current	Voltage	
		A/C	D/C
D–Sub 15P	5A	300V	300V

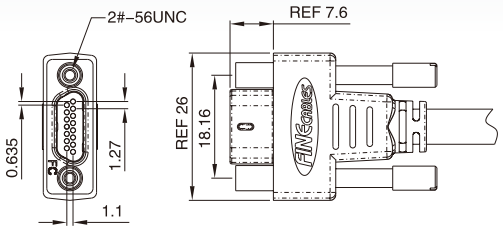
Remarks

• Please refer to Page 19 for products' part number encoding rule.

Micro D-Sub Molded Cable

- Connector series: Micro D–sub
- Gender: Female
- Locking type: Fix screw
- Mounting type: Straight
- Part No.: DBW15FS–XXXXXX

X refers to cable specification



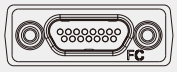


General information

Ambient temperature:	–20℃ ~ +80℃
Connector insert:	PBT
Connector contacts:	Brass with gold plated
Connector nut/screw:	Steel with nickel plated

Insulation resistance:	⩾ 100 MΩ
Contact resistance :	⩽ 5 mΩ
Shielding:	Available

Electrical data & Mechanical data

Contacts		Rated current	Voltage		Wire gauge / size		Cable jacket	Cable ending & length
			A/C	D/C	AWG	mm^2		
15P		1A	350V	350V	26~28	0.08~0.15	PUR/PVC	Customized cable ending and length

Remarks

• Please refer to Page 12 for the Conversion between American Wire Gauge AWG and Wire Cross–section mm^2.

ISO-BUS 11783
connectors





ISO-BUS 11783 connectors

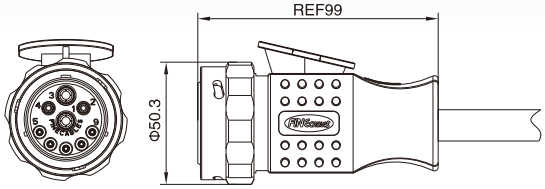
The ISO–BUS standard specifies a serial data network for control and communications on forestry or agricultural tractors and implements. It consists of several factors; general standards for mobile data communication, physical layer, data link layer, network layer, network management, virtual terminal, 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 Plug Molded Cable, Quick-lock Type

- Connector series: ISO–BUS
- Gender: Plug
- Coding: Break way
- Locking type: Quick–lock
- Mounting type: Straight
- Part No.: ISO–BUS–PM–XX

X refers to cable length



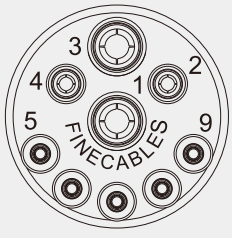


General information

Standard:	ISO 11783–2
Ambient temperature:	–40℃ ~ +85℃(fixed installation)
	–25℃ ~ +85℃(flexible 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

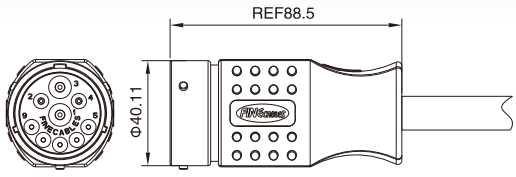
Electrical data & Mechanical data

Contacts	Pin	Rated current	Rated Voltage A/C	Rated Voltage D/C	Cable Specification
	1&3	40A	60V	60V	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
	2&4	18A	60V	60V	
	5~9	7A	60V	60V	

ISO-BUS Receptacle Molded Cable, Straight, Quick-lock Type

- Connector series: ISO–BUS
- Gender: Receptacle
- Coding: Break way
- Locking type: Quick–lock
- Mounting type: Straight
- Part No.: ISO–BUS–RM–XX

X refers to cable length



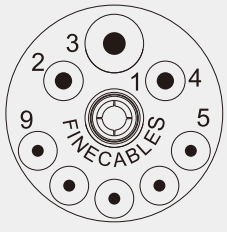


General information

Standard:	ISO 11783–2
Ambient temperature:	–40℃ ~ +85℃(fixed installation)
	–25℃ ~ +85℃(flexible 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

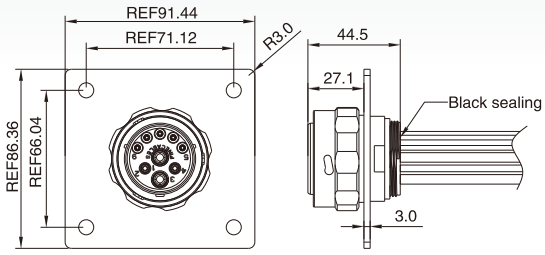
Electrical data & Mechanical data

Contacts	Pin	Rated current	Rated Voltage		Cable Specification
			A/C	D/C	
	1&3	40A	60V	60V	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
	2&4	18A	60V	60V	
	5~9	7A	60V	60V	

ISO-BUS Plug Panel Mount, Quick-lock Type

- Connector series: ISO–BUS
- Gender: Plug
- Coding: Break way
- Locking type: Quick–lock
- Mounting type: Panel
- Part No.: ISO–BUS–PP–XX

X refers to cable length



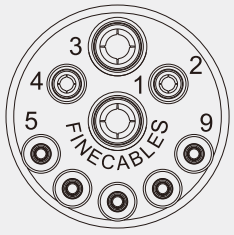


General information

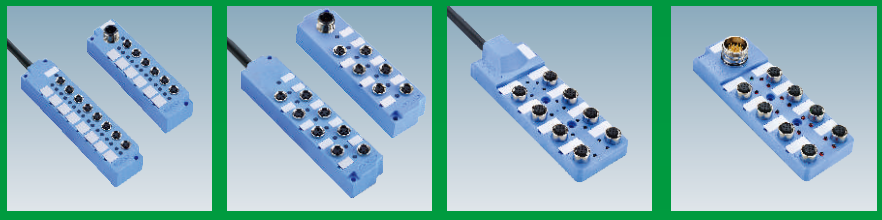
Standard:	ISO 11783–2
Ambient temperature:	–25 ℃~ + 85 ℃
Insert:	PA + GF
Connector contacts:	Pin1,2,3&4 Brass with nickel plated Pin5,6,7,8&9 Brass with gold plated
Color:	Blue

Insulation resistance:	⩾100MΩ
Contact resistance :	⩽ 20mΩ
Overmolding:	Stainless steel
Sealing:	Silicon
Mating Durability:	100
Corrosion Resistance:	48H salt spray test
IP rating:	IP 65 in locked condition

Electrical data & Mechanical data

Contacts	Pin	Rated current	Rated Voltage		Cable Specification
			A/C	D/C	
	1&3	40A	60V	60V	UL1015 6.0mm² wire(BC)
	2&4	18A	60V	60V	UL1015 2.5mm² wire(BC)
	5~9	7A	60V	60V	UL1015 0.5mm² wire(BC)

Junction Boxes



Junction Boxes

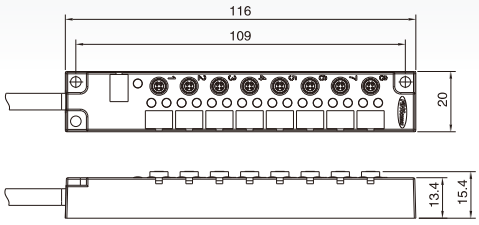
Our sensor/actuator junction boxes provide more extension possibilities to industrial field control systems. Our M5/M8/M12 series junction boxes are available in 4, 6, or 8 port setups with either 4 or 5 poles per port. The master cable can be configured via a 7/8", M23 connector, or a pre–molded cable 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 Box, 8 Ports, M5 Termination, Molded Cable

- Connector series: Junction Box
- Termination: M5
- Locking type: Fix screw
- Part No.: JB8M5F**L–XX(With LED)
  JB8M5F**L–XX(Without LED)

** refers to pins number
X refers to cable length



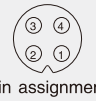
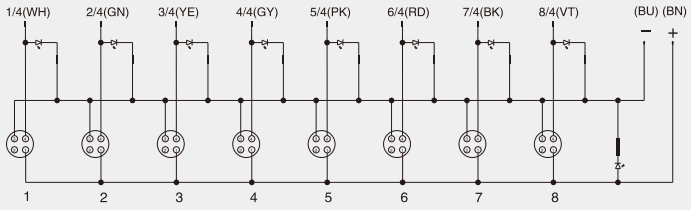


General information

Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–25℃ ~ +80℃(flexible 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

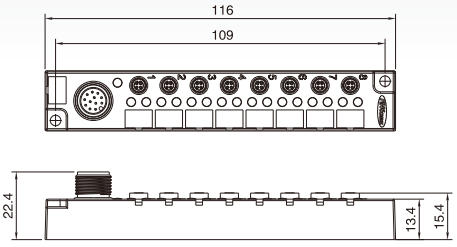
Electrical data & Mechanical data

Contacts		Circuit diagram	Cable Specification
04Pins	 Pin assignment M5(Female)		Cable: 8*0.14mm²(26AWG) 2*0.25mm²(24AWG) PUR/PVC jacket by customized

Junction Box, 8 Ports, M5 Termination, with M12 Connector

- Connector series: Junction Box
- Termination: M5
- Locking type: Fix screw
- Part No.: JB8M5F**L–M12M**(with LED)
  JB8M5F**–M12M**(without LED)

** refers to pins number



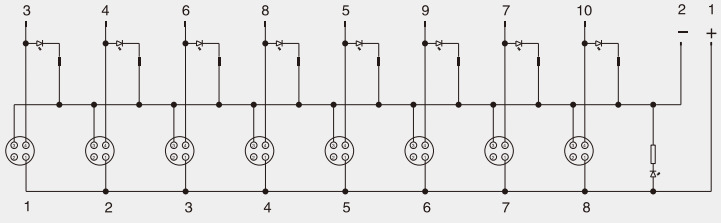


General information

Ambient temperature:	–25 ℃~ + 80 ℃
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

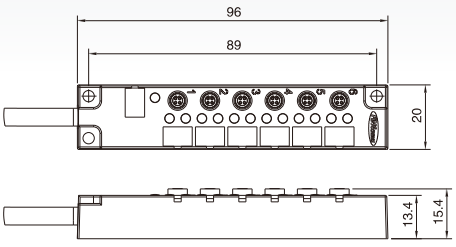
Electrical data & Mechanical data

Contacts		Circuit diagram
04Pins	 Pin assignment M5(Female)  Pin assignment M12(Male)	

Junction Box, 6 ports, M5 Termination, Molded Cable

- Connector series: Junction Box
- Termination: M5
- Locking type: Fix screw
- Part No.: JB6M5F**L–XX(With LED)
  JB6M5F**L–XX(Without LED)

** refers to pins number
XX refers to cable length



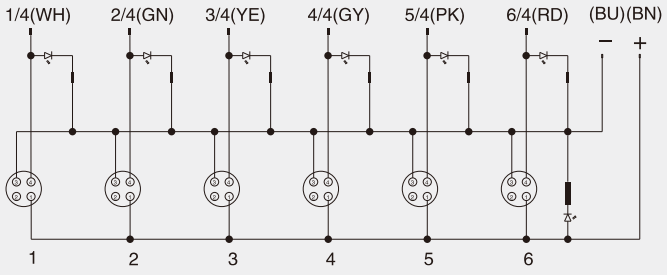


General information

Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–25℃ ~ +80℃(flexible 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

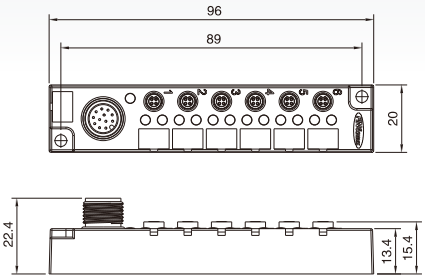
Electrical data & Mechanical data

Contacts		Circuit diagram	Cable Specification
04Pins	 Pin assignment M5(Female)		Cable: 6*0.14mm²(26AWG) 2*0.25mm²(24AWG) PUR/PVC jacket by customized

Junction Box, 6 Ports, M5 Termination, with M12 Connector

- Connector series: Junction Box
- Termination: M5
- Locking type: Fix screw
- Part No.: JB6M5F**L–M12M**(with LED)
  JB6M5F**–M12M**(without LED)

** refers to pins number



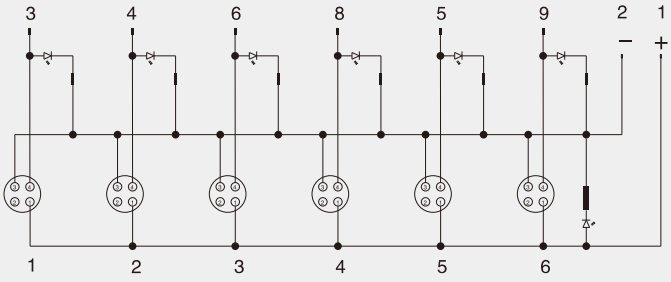


General information

Ambient temperature:	–25 ℃~ + 80 ℃
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

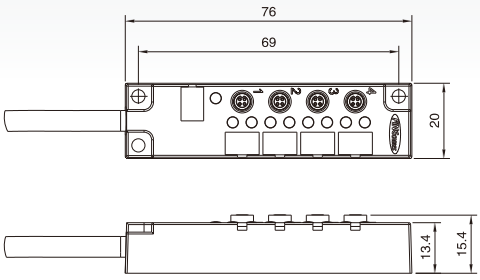
Electrical data & Mechanical data

Contacts		Circuit diagram
04Pins	 Pin assignment M5(Female)  Pin assignment M12(Male)	

Junction Box, 4 Ports, M5 Termination, Molded Cable

- Connector series: Junction Box
- Termination: M5
- Locking type: Fix screw
- Part No.: JB4M5F**L–XX(With LED)
  JB4M5F**L–XX(Without LED)

** refers to pins number
XX refers to cable length



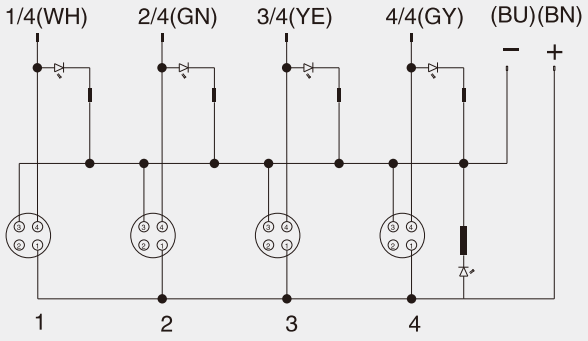


General information

Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–25℃ ~ +80℃(flexible 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

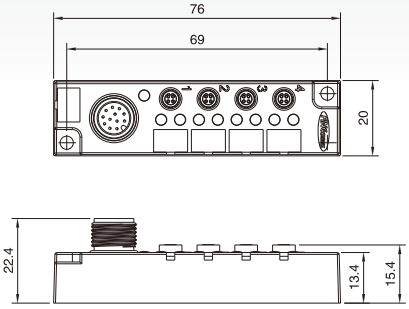
Electrical data & Mechanical data

Contacts		Circuit diagram	Cable Specification
04Pins	 Pin assignment M5(Female)		Cable: 4*0.14mm²(26AWG) 2*0.25mm²(24AWG) PUR/PVC jacket by customized

Junction Box, 4 Ports, M5 Termination, with M12 Connector

- Connector series: Junction Box
- Termination: M5
- Locking type: Fix screw
- Part No.: JB4M5F**L–M12M**(with LED)
  JB4M5F**–M12M**(without LED)

** refers to pins number



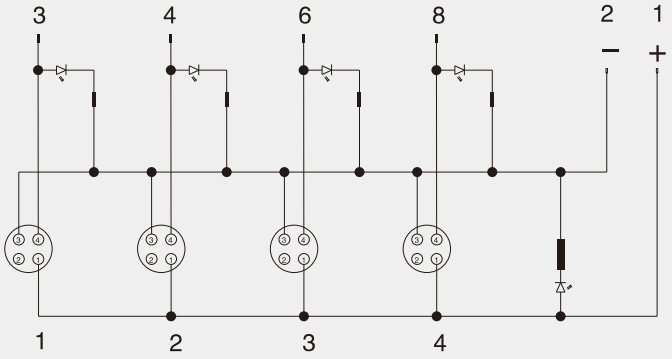


General information

Ambient temperature:	–25 ℃~ + 80 ℃
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

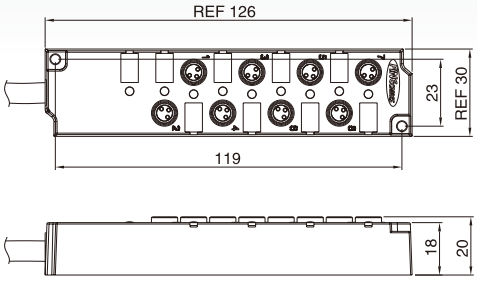
Electrical data & Mechanical data

Contacts		Circuit diagram
04Pins	 Pin assignment M5(Female)  Pin assignment M12(Male)	

Junction Box, 8 Ports, M8 Termination, Molded Cable

- Connector series: Junction Box
- Termination: M8
- Locking type: Fix screw
- Coding type: A–coding
- Part No.: JB8M8F**L–XX (with LED)
  JB8M8F**–XX (without LED)

** refers to pins number
X refers to cable length



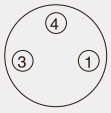
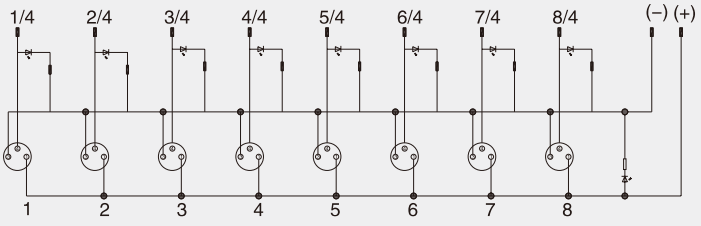


General information

Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–25℃ ~ +80℃(flexible 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

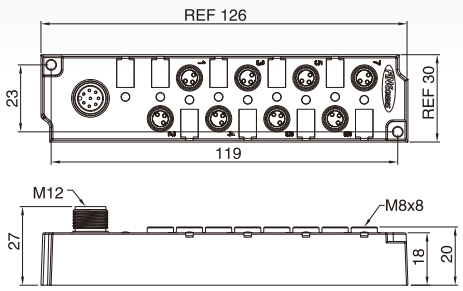
Electrical data & Mechanical data

Contacts		Circuit diagram	Cable Specification
03Pins	 M8(Female)		Cable: 8*0.25mm²(24AWG) 2*0.5mm²(20AWG) PUR/PVC jacket by customized

Junction Box, 8 Ports, M8 Termination, with M12 Connector

- Connector series: Junction Box
- Termination: M8
- Locking type: Fix screw
- Coding type: A–coding
- Part No.: JB8M8F**L–M12M** (with LED)
  JB8M8F**–M12M** (without LED)

** refers to pins number



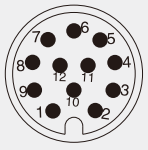
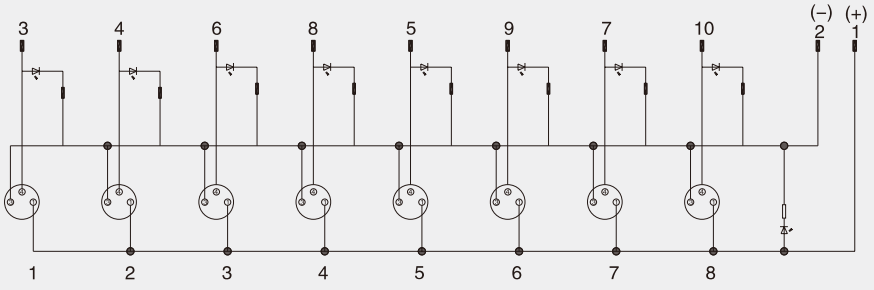
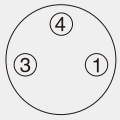


General information

Ambient temperature:	–25 ℃~ + 80 ℃
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

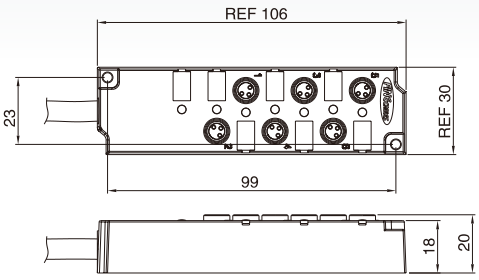
Electrical data & Mechanical data

Contacts		Circuit diagram
12Pins	 M12(Male)	
03Pins	 M8(Female)	

Junction Box, 6 Ports, M8 Termination, Molded Cable

- Connector series: Junction Box
- Termination: M8
- Locking type: Fix screw
- Coding type: A–coding
- Part No.: JB6M8F**L–XX (with LED)
  JB6M8F**–XX (without LED)

** refers to pins number
X refers to cable length



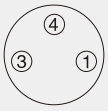
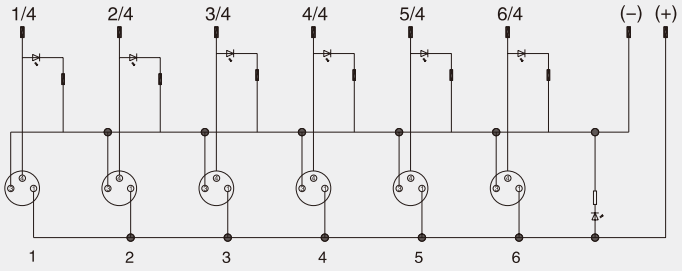


General information

Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–25℃ ~ +80℃(flexible 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

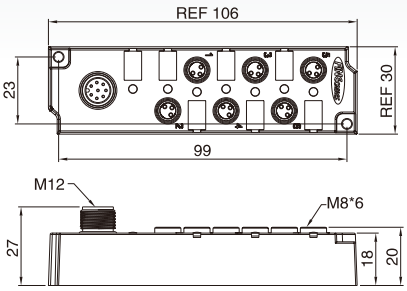
Electrical data & Mechanical data

Contacts		Circuit diagram	Cable Specification
03Pins	 M8(Female)		Cable: 6*0.25mm²(24AWG) 2*0.5mm²(20AWG) PUR/PVC jacket by customized

Junction Box, 6 Ports, M8 Termination, with M12 Connector

- Connector series: Junction Box
- Termination: M8
- Locking type: Fix screw
- Coding type: A–coding
- Part No.: JB6M8F**L–M12M** (with LED)
  JB6M8F**–M12M** (without LED)

** refers to pins number



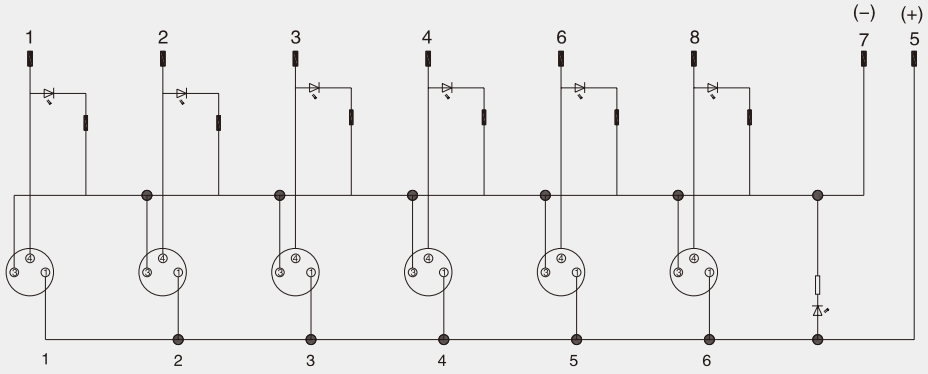
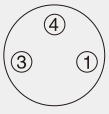


General information

Ambient temperature:	–25 ℃~ + 80 ℃
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

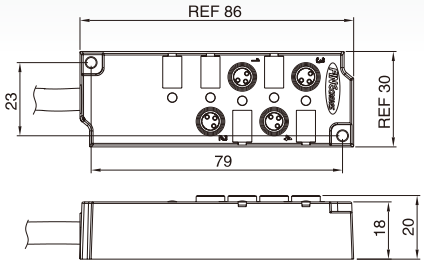
Electrical data & Mechanical data

Contacts		Circuit diagram
08Pins	 M12(Male)	
03Pins	 M8(Female)	

Junction Box, 4 Ports, M8 Termination, Molded Cable

- Connector series: Junction Box
- Termination: M8
- Locking type: Fix screw
- Coding type: A–coding
- Part No.: JB4M8F**L–XX (with LED)
  JB4M8F**–XX (without LED)

** refers to pins number
X refers to cable length



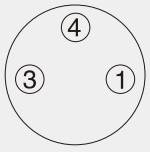
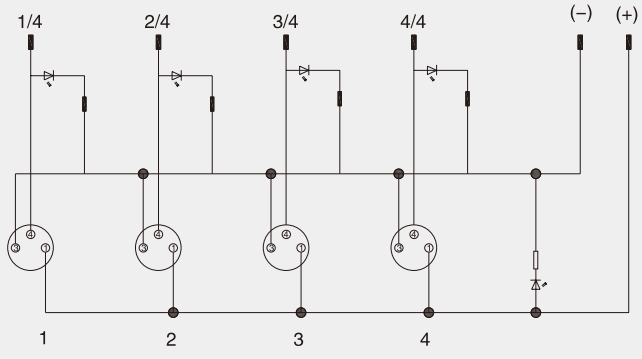


General information

Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–25℃ ~ +80℃(flexible 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

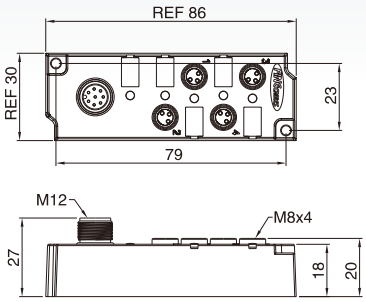
Electrical data & Mechanical data

Contacts		Circuit diagram	Cable Specification
03Pins	 M8(Female)		Cable: 4*0.25mm²(24AWG) 2*0.5mm²(20AWG) PUR/PVC jacket by customized

Junction Box, 8 Ports, M8 Termination, with M12 Connector

- Connector series: Junction Box
- Termination: M8
- Locking type: Fix screw
- Coding type: A–coding
- Part No.: JB4M8F**L–M12M** (with LED)
  JB4M8F**–M12M** (without LED)

** refers to pins number



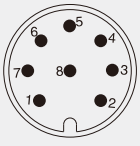
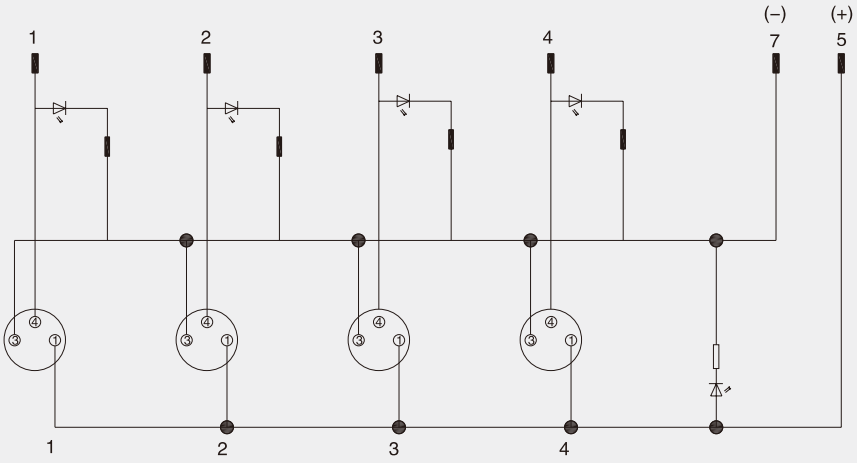
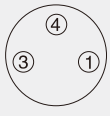


General information

Ambient temperature:	–25 ℃~ + 80 ℃
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
M12 type:	8P

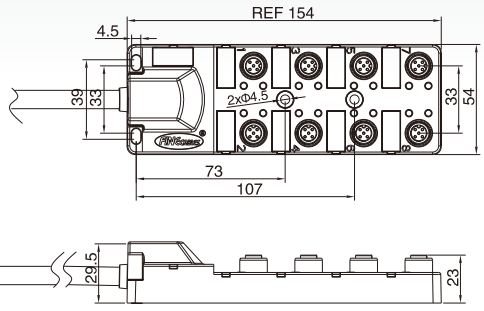
Electrical data & Mechanical data

Contacts		Circuit diagram
08Pins	 M12(Male)	
03Pins	 M8(Female)	

Junction Box, 8 Ports, M12 Termination, Molded Cable

- Connector series: Junction Box
- Termination: M12
- Locking type: Fix screw
- Coding type: A–coding
- Part No.: JB8M12F**L–XX (with LED)
  JB8M12F**–XX (without LED)

** refers to pins number
X refers to cable length



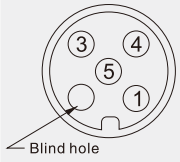
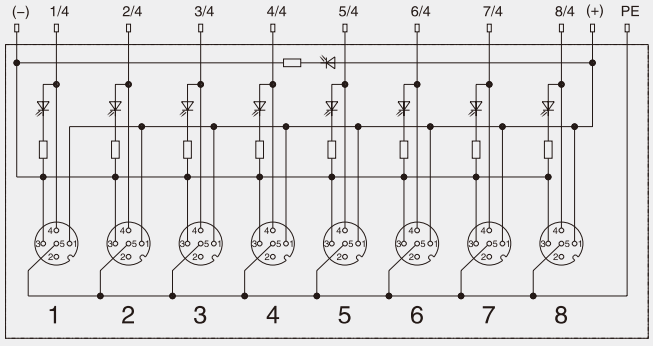
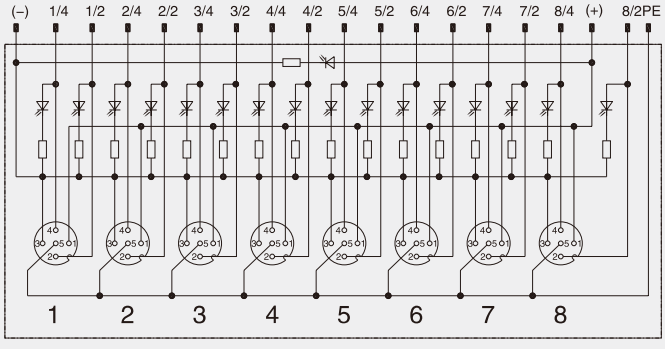


General information

Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–25℃ ~ +80℃(flexible 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

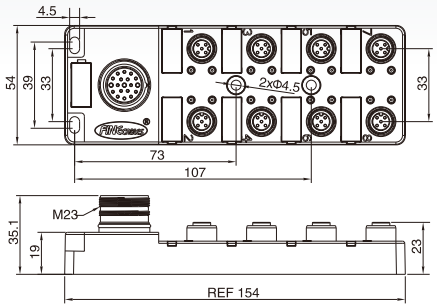
Electrical data & Mechanical data

Contacts		Circuit diagram	Cable Specification
04Pins	 M12 Female		3Cx0.75mm²(18AWG)+ 8Cx0.34mm²(22AWG) PUR / PVC jacket by customized
05Pins	 M12 Female		3Cx0.75mm²(18AWG)+ 16Cx0.34mm²(22AWG) PUR / PVC jacket by customized

Junction Box, 8 Ports, M12 Termination, with M23 Connector

- Connector series: Junction Box
- Termination: M12
- Locking type: Fix screw
- Coding type: A–coding
- Part No.: JB8M12F**L–M23M** (with LED)
  JB8M12F**–M23M** (without LED)

** refers to pins number



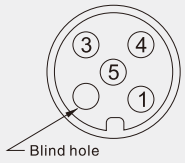
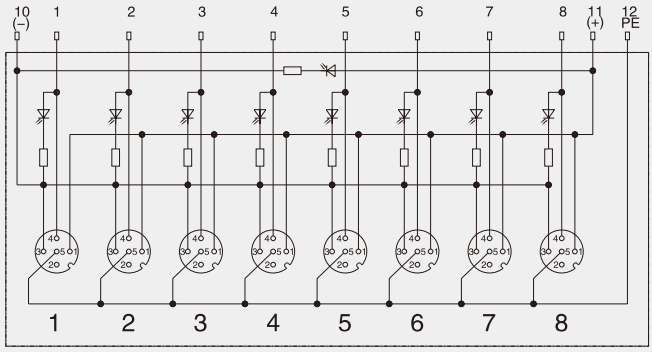
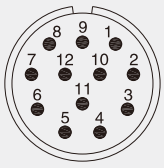
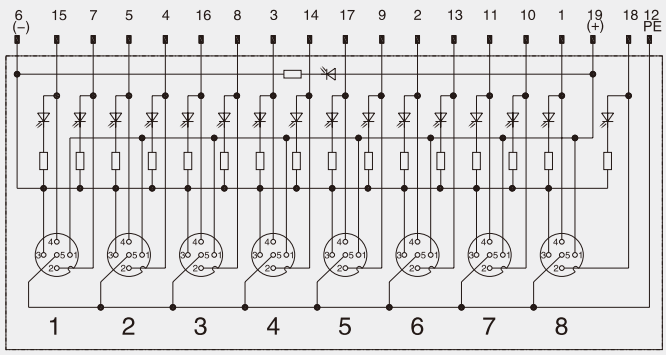
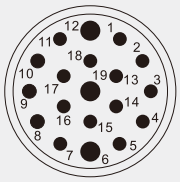


General information

Ambient temperature:	–25 ℃~ + 80 ℃
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
M12 type:	8P

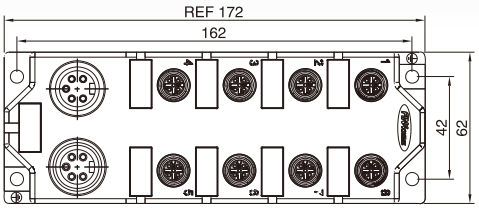
Electrical data & Mechanical data

Contacts		Circuit diagram
04Pins	 M12 Female	
12Pins	 M23 Male	
05Pins	 M12 Female	
19Pins	 M23 Male	

Junction Box, 8 Ports, M12 Termination, with Mini-Change 7/8" Connector

- Connector series: Junction Box
- Termination: M12
- Locking type: Fix screw
- Coding type: A–coding
- Part No.: JB8M12F**L–MINIMF** (with LED)

** refers to pins number



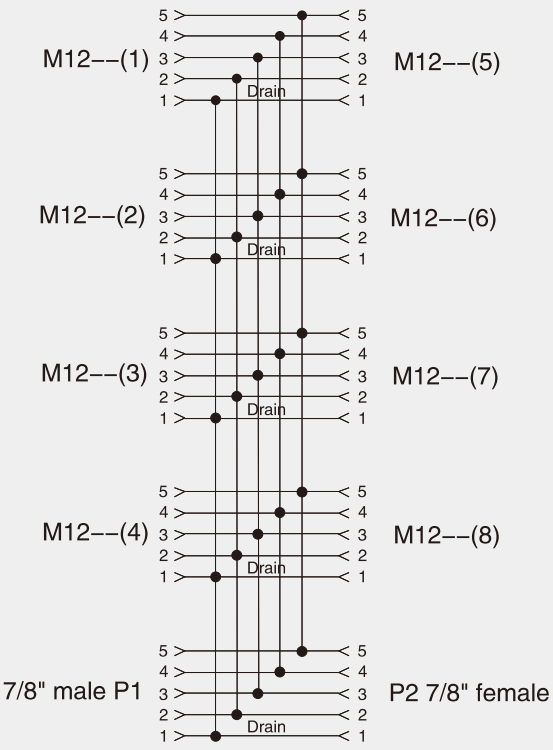
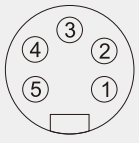


General information

Ambient temperature:	–25 ℃~ + 80 ℃
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
M12 type:	8P

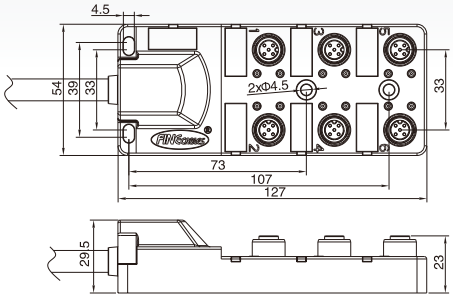
Electrical data & Mechanical data

Contacts		Circuit diagram
05Pins	 M12 Female	
05Pins	 7/8" Male	
05Pins	 7/8" Female	

Junction Box, 6 Ports, M12 Termination, Molded Cable

- Connector series: Junction Box with cable
- Termination: M12
- Locking type: Fix screw
- Coding type: A–coding
- Part No.: JB6M12F**L–XX (with LED)
  JB6M12F**–XX (without LED)

** refers to pins number
X refers to cable length



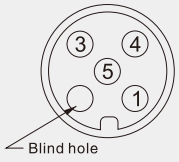
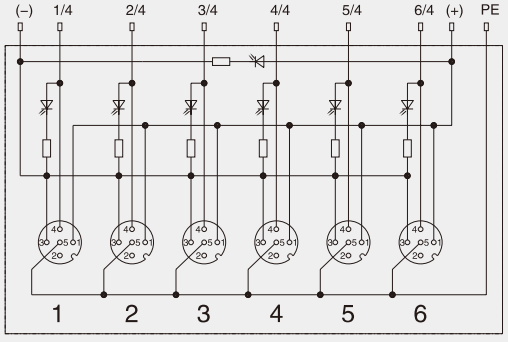
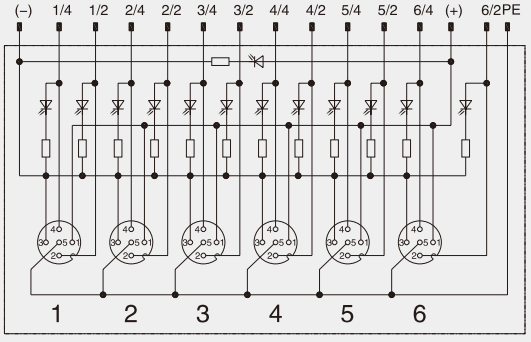


General information

Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–25℃ ~ +80℃(flexible 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

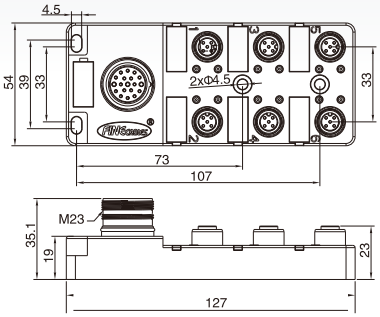
Electrical data & Mechanical data

Contacts		Circuit diagram	Cable Specification
04Pins	 M12 Female		3Cx0.75mm²(18AWG)+ 6Cx0.34mm²(22AWG) PUR / PVC jacket by customized
05Pins	 M12 Female		3Cx0.75mm²(18AWG)+ 12Cx0.34mm²(22AWG) PUR / PVC jacket by customized

Junction Box, 6 Ports, M12 Termination, with M23 Connector

- Connector series: Junction Box
- Termination: M12
- Locking type: Fix screw
- Coding type: A–coding
- Part No.: JB6M12F**L–M23M** (with LED)
  JB6M12F**–M23M** (without LED)

** refers to pins number

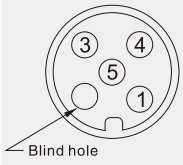
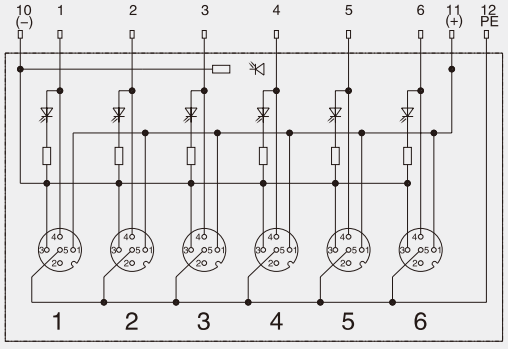
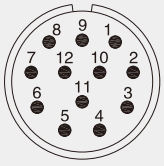
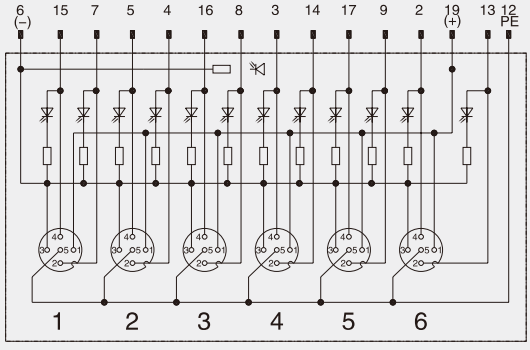
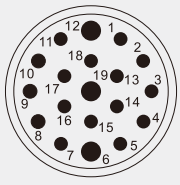




General information

Ambient temperature:	–25 ℃~ + 80 ℃	Contact resistance :	⩽ 5mΩ
Connector insert:	TPU/PA	Rated voltage with/without LED:	10~30V/120V
Connector contacts:	Brass with gold plated	Rated current:	2A per signal,6A total
Material of body:	PBT	LED color:	Optional
Coupling nut/screw:	Brass with nickel plated	IP rating:	IP 67 in locked condition
Body color:	Blue	M12 type:	8P
Seal:	FKM		

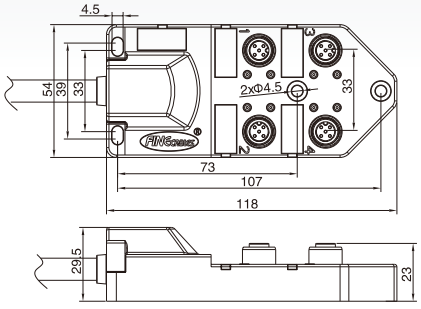
Electrical data & Mechanical data

Contacts		Circuit diagram
04Pins	 M12 Female	
12Pins	 M23 Male	
05Pins	 M12 Female	
19Pins	 M23 Male	

Junction Box, 4 Ports, M12 Termination, Molded Cable

- Connector series: Junction Box
- Termination: M12
- Locking type: Fix screw
- Coding type: A–coding
- Part No.: JB4M12F**L–XX (with LED)
  JB4M12F**–XX (without LED)

** refers to pins number
X refers to cable length



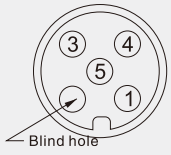
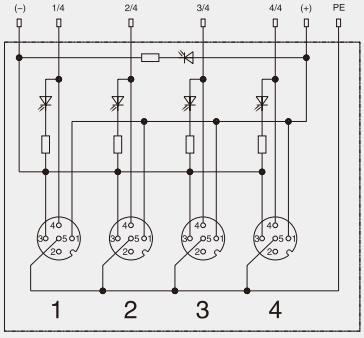
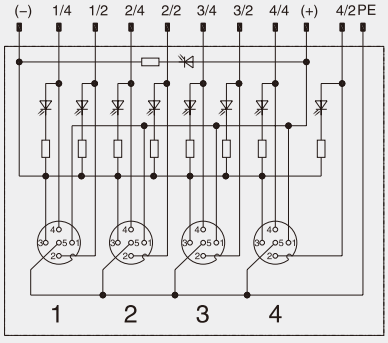


General information

Ambient temperature:	–40℃ ~ +80℃(fixed installation)
	–25℃ ~ +80℃(flexible 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

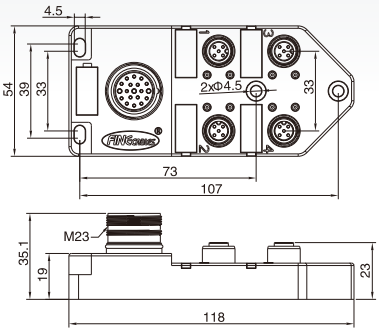
Electrical data & Mechanical data

Contacts		Circuit diagram	Cable Specification
04Pins	 M12 Female		3Cx0.75mm²(18AWG)+ 4Cx0.34mm²(22AWG) PUR / PVC jacket by customized
05Pins	 M12 Female		3Cx0.75mm²(18AWG)+ 8Cx0.34mm²(22AWG) PUR / PVC jacket by customized

Junction Box, 4 Ports, M12 Termination, with M23 Connector

- Connector series: Junction Box
- Termination: M12
- Locking type: Fix screw
- Coding type: A–coding
- Part No.: JB4M12F**L–M23M** (with LED)
  JB4M12F**–M23M** (without LED)

** refers to pins number



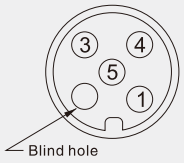
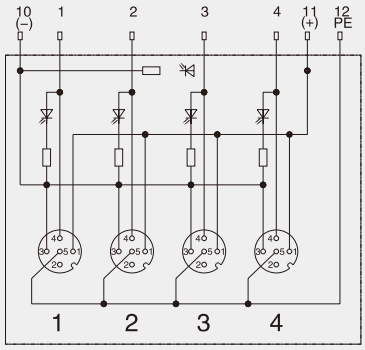
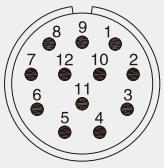
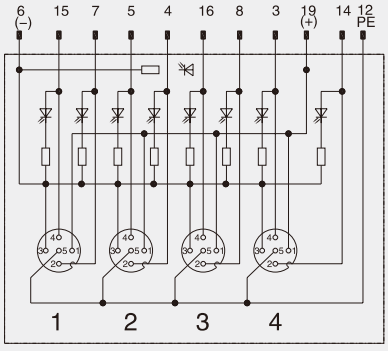
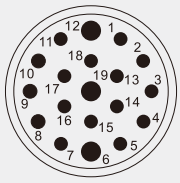


General information

Ambient temperature:	–25 ℃~ + 80 ℃
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
M12 type:	8P

Electrical data & Mechanical data

Contacts		Circuit diagram
04Pins	 M12 Female	
12Pins	 M23 Male	
05Pins	 M12 Female	
19Pins	 M23 Male	

100M/Reel PUR Cables

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



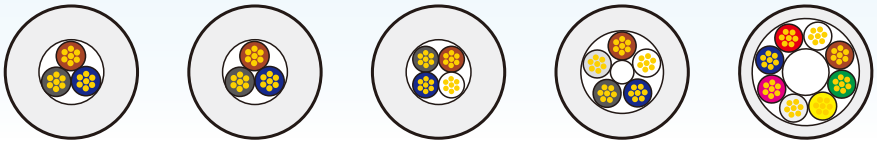
- Do you ever have this experience: after buying field installable/assembly connectors, you have to purchase related cables from another supplier?

- 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 for applicable connector of M8/M12/M16/7/8"/Industrial I/O series etc.

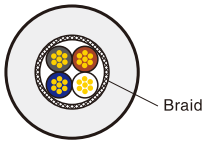
- One–stop services are always at your disposal. Look forward to further cooperation with you.

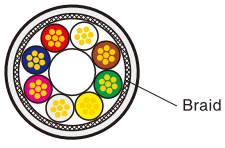
Specification of Unshielded Cable



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℃~+80℃	–10℃~+80℃	–10℃~+80℃	–10℃~+80℃	–10℃~+80℃
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℃~+80℃	–10℃~+80℃
Bending radius(cable in move)	min.15xΦ	min.15xΦ
Bending radius(cable not in move)	min.12xΦ	min.12xΦ
UL model	UL20549	UL20549

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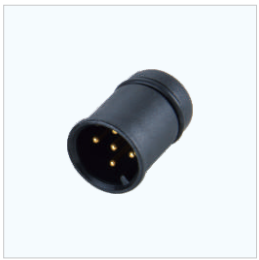

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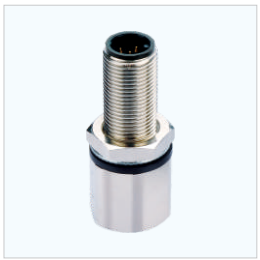

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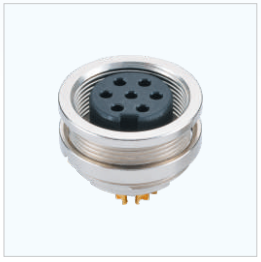

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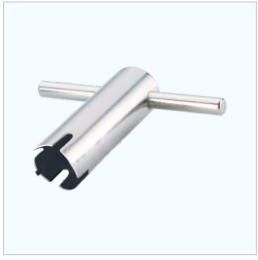

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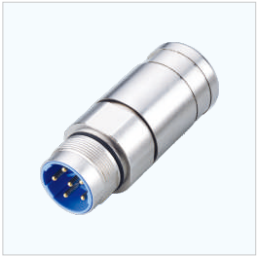

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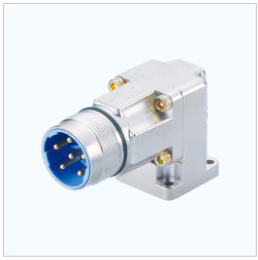

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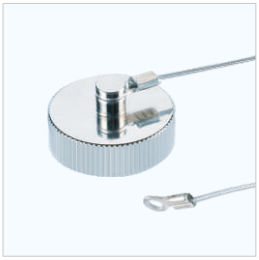

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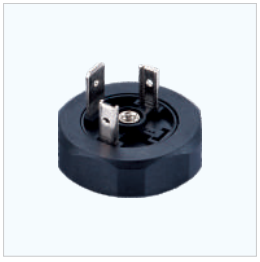

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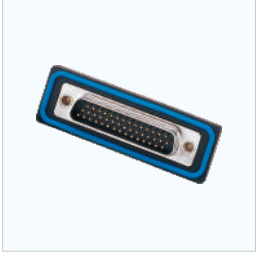

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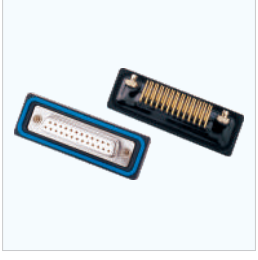

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