

M12 Push-Pull Connector (5-Contact)

CM12P Series



◆ OUTLINE

The CM12P Series is a compact circular connector developed for connecting various sensors. It features a push-pull locking mechanism compliant with the international standard IEC 61076-2-010, enabling one-touch mating and unmating. Unlike screw-mating systems, it eliminates concerns about loosening and the need for torque control, while providing positive locking feedback and fast connection. Mating marks on both the receptacle and plug further improve ease of operation. In addition, the receptacle connector is compatible with conventional M12 screw-type connectors compliant with IEC 61076-2-101, making it easy to transition from existing M12 screw-type products.

The product lineup includes a wide range of variations, such as lead-wire connection, board-mount, relay/extension, straight, and right-angle types, supporting use in a variety of applications.

◆ FEATURES

- Compliant with international standard IEC61076-2-010
- Mating and disconnection can be completed with one-touch(Push/Pull)
- Mating marks on both the receptacle and plug further improve ease of operation
- Receptacle connector can be mated M12 screws(IEC61076-2-101)
- A wide range of variations, such as lead-wire connection, board-mount, relay/extension, straight, and right-angle types
- Waterproof to IP67 when mated

◆ SPECIFICATIONS

Rated Current	4A /contact
Rated Voltage	60V DC/AC(r.m.s)
Dielectric Withstanding Voltage	1,000V AC(r.m.s) for 1 minute
Insulation Resistance	1000M Ω min. at 250V DC
Operating Temperature Range	- 25°C to +85°C
Waterproof	IP67 (mated)
No. of Contacts	5

MATERIAL/FINISH

Item	Receptacle
Shell	Zinc Alloy/Nickel Plating
Insulator	Plastic/Black[UL]
Contact	Copper Alloy/Gold Plating
Gasket	Synthetic Rubber/Black
Hex Nut	Zinc Alloy/Nickel Plating

Item	Plug
Shell	Zinc Alloy/Nickel Plating
Insulator	Plastic/Black[UL]
Contact	Copper Alloy/Gold Plating
Lock Spring	Stainless Steel
Backshell	Aluminum Alloy/Nickel Plating
O-Ring/Bushing	Synthetic Rubber/Black
Cable Clump	Plastic/White[UL]
Clamp Nut	Plastic/Black[UL]



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Conforming
Standard
IEC61076-2-010

Waterproof
IP67 (Mated)

Lock Type
One-Touch

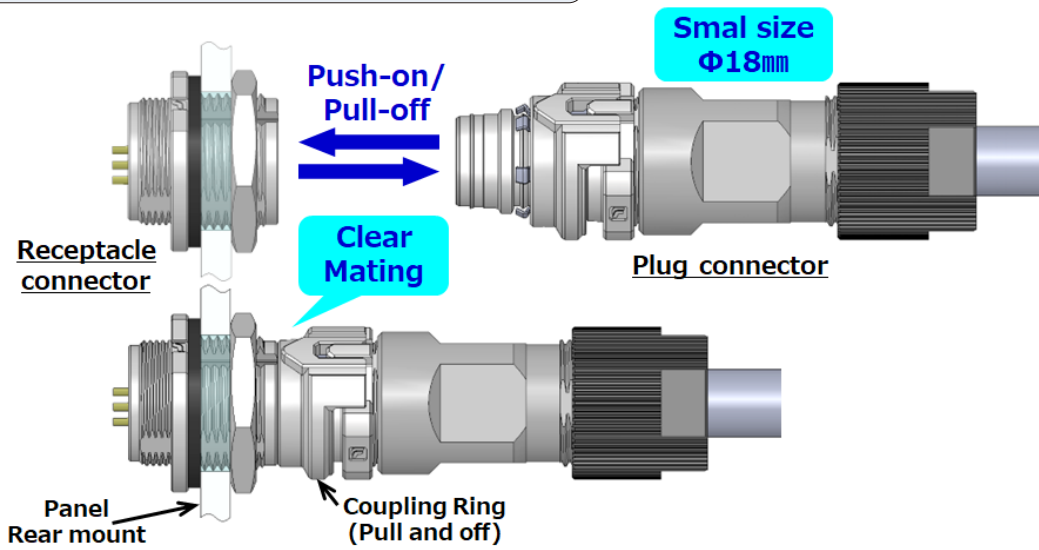
Termination
Crimp: Plug
Solder: Receptacle,
Panel Mount Type

Safety
Standards
—

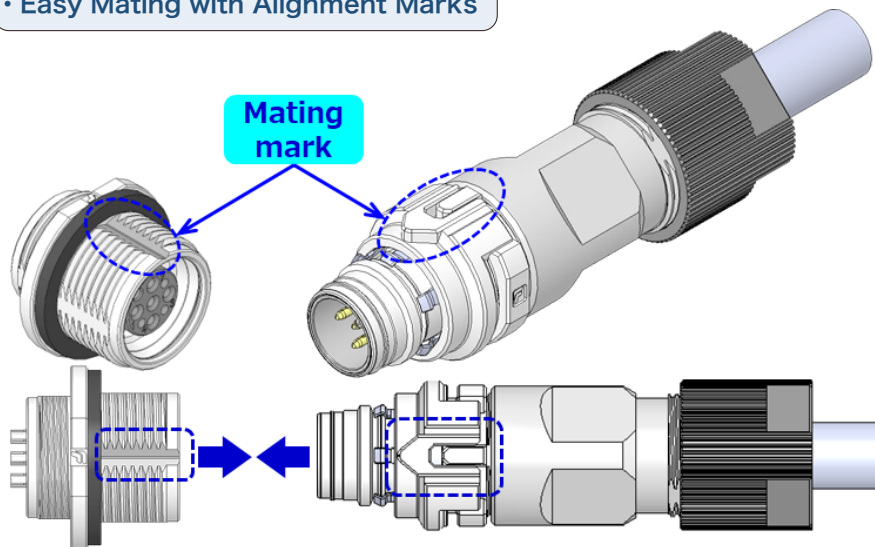
Mating
—

▶ Product Features

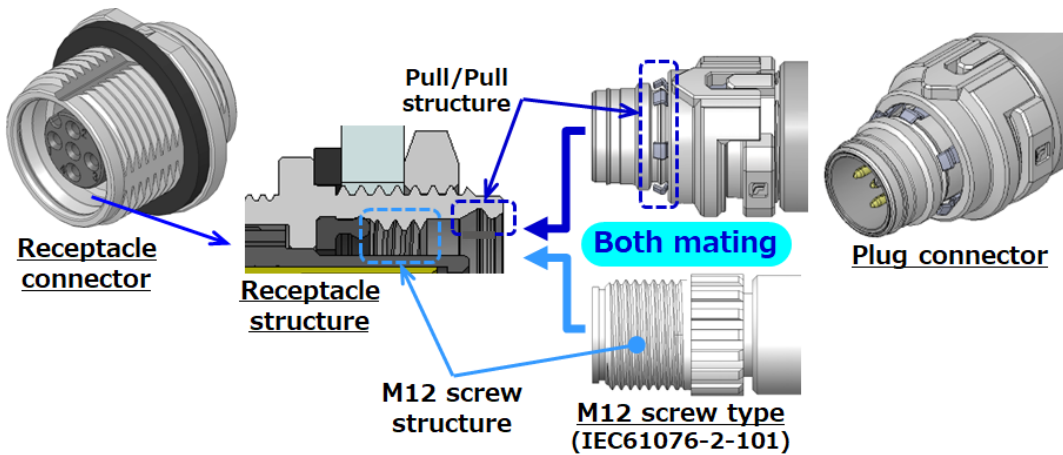
- One-Touch Mating and Unmating(Push/Pull)



- Easy Mating with Alignment Marks



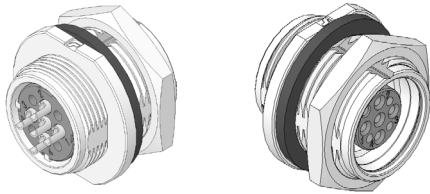
- Compatible with M12 Threaded Connectors (IEC61076-2-101)



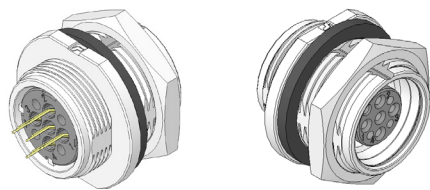
▶ Connector Mating Combination

【Receptacle Series】

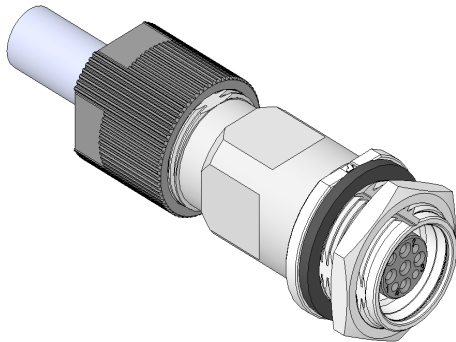
1. Panel Mount Receptacle, Wire Leads



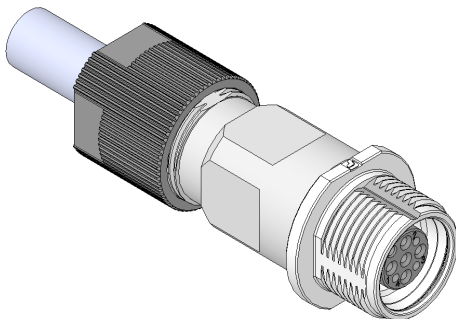
2. Panel Mount Receptacle, PCB Mount



3. Inline Receptacle

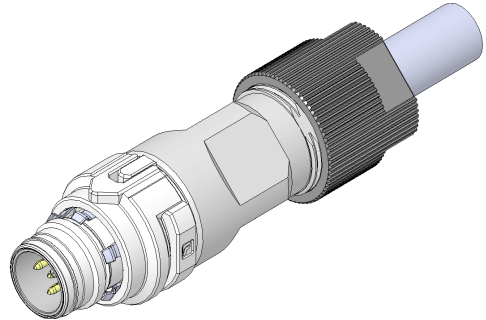


4. Extension Receptacle

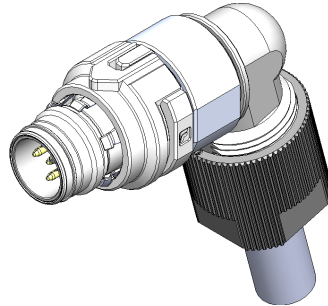


【Plug Series】

5. Straight Plug



6. Right-Angle Plug

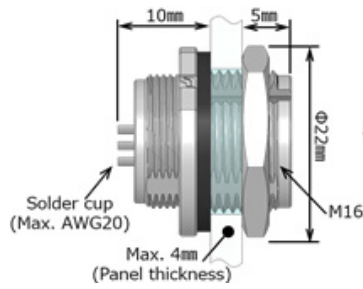


▶ Receptacle Series

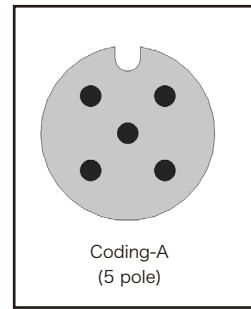
P/N : CM12P-JR-A05FS1

Panel Mount,
Wire Leads

Soldering side



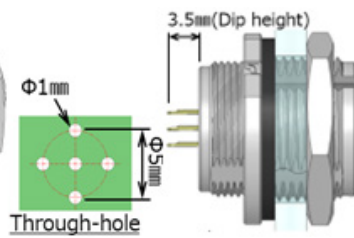
Mating side



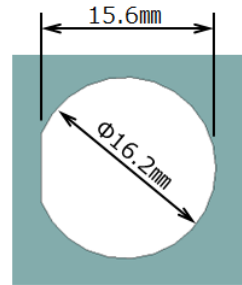
P/N : CM12P-JR-A05FD1

Panel Mount,
PCB Mount

Soldering side



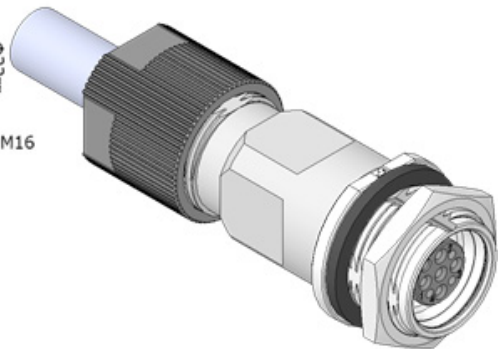
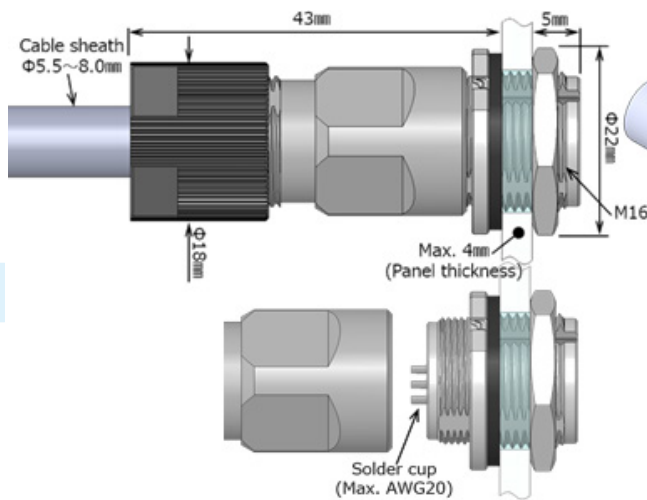
Mating side



Panel cut size

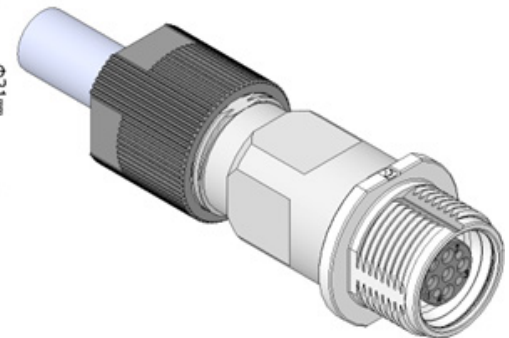
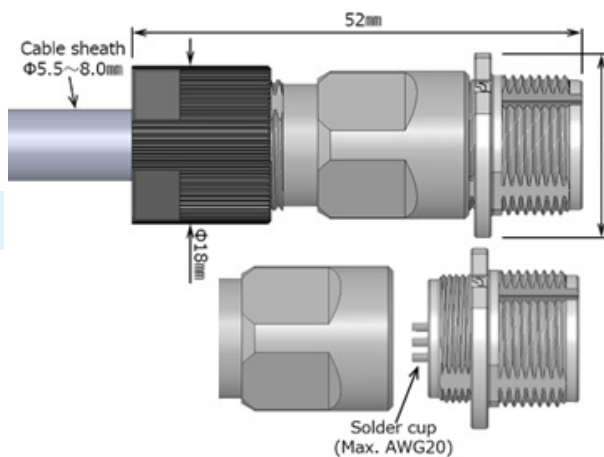
P/N : CM12P-WR-A05FS1-M

Inline Type



P/N : CM12P-CR-A05FS1-M

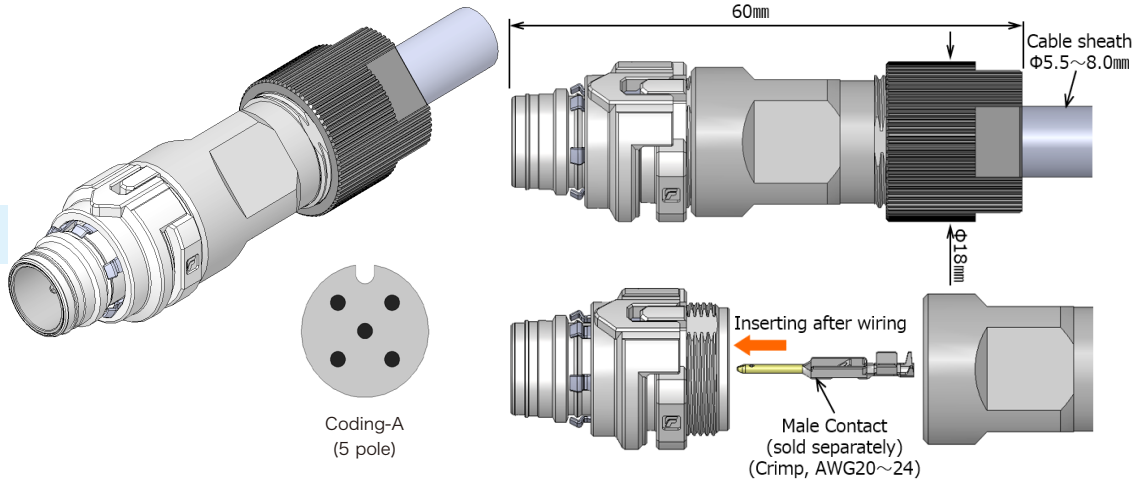
Extension Type



▶ Plug Series

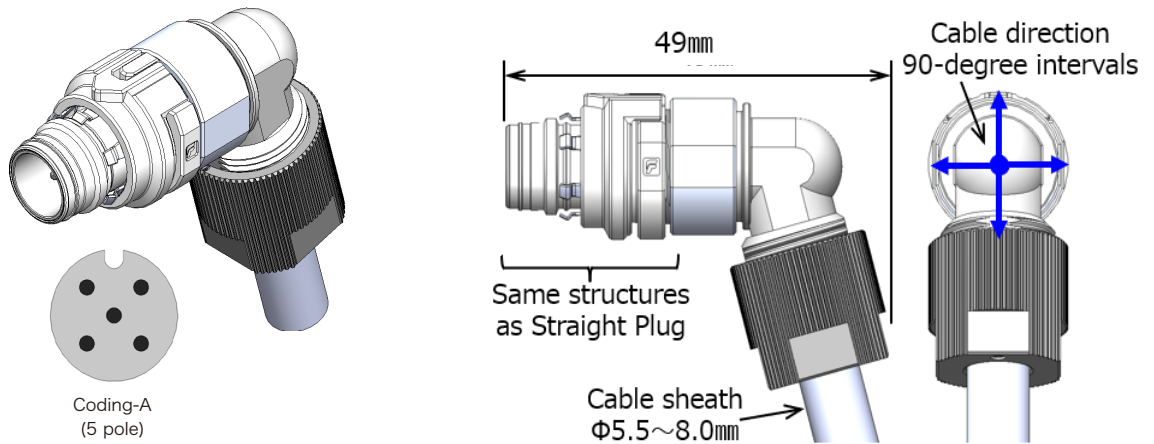
P/N : CM12P-SP-A05M-M

Straight Type



P/N : CM12P-AP-A05M-M

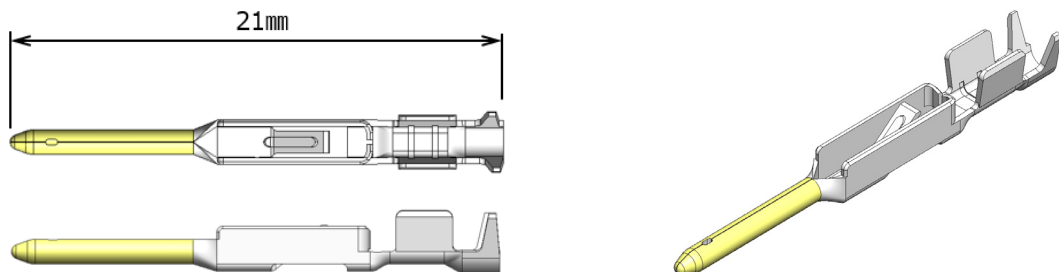
Right-Angle Type



▶ Contacts (Crimp Type)

Pin Contact for Plug(Male)

CM09-#20PC-XXXX



Contact P/N	Quantity (pcs)	Packaging	Applicable Wire		Hand Tool P/N	Semi-Automatic Crimping Machine			Extraction Tool P/N
			Conductor Size	Insulation Dia.		Machine Type	1-Set P/N	Applicator P/N	
CM09-#20PC-100	100	Bulk	AWG20 ~ AWG24	$\phi 1.9$ mm Max.	357J-50481T				357J-51374T
CM09-#20PC-10000	10,000	Reel				Crimper	AP-54126T	AP-54126T-1	

1. Pin contacts are supplied in packages of 100 pieces.

2. When crimping with a semi-automatic crimping machine, apply crimping oil (press oil) or a volatile lubricant to the bottom surface of the contact crimp area.

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