

M SERIES connectors Catalog

M-2012-01-1

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Background:

Amphenol Industrial Operation (AIO) can provide its reliable connection products and the connection solutions. AIO is now manufacturing the range of M8, M12, circular connector, meet UL 1977&IEC 61076-2-101 standards, the connection product are widely used in field bus components, Ethernet, solenoid valves, pressure switches, motors-control, Encoder, HMI, photoelectric barriers, flow monitoring devices, and sensors in the hydraulic and automation industries, all kind of electronic equipment connection.

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APPLICATION

1. INVERTER
2. DATA/TELECOM
3. SMART GRID POWER
4. CONTROL/AUTOMATION
5. INDUSTRIAL INSTRUMENTATION
6. RAIL & MASS TRANSIT

M12 SPECIFICATION

Mechanical data

- Durability: 500 Cycles
- Salt Spray: 720 Hours different plating and base material
- Sealing Requirement: IP 67/IP68(mated)
- Operating temperature: -40°C~+100°C

Standards

- Connectors: IEC 61076-2-101

Electrical

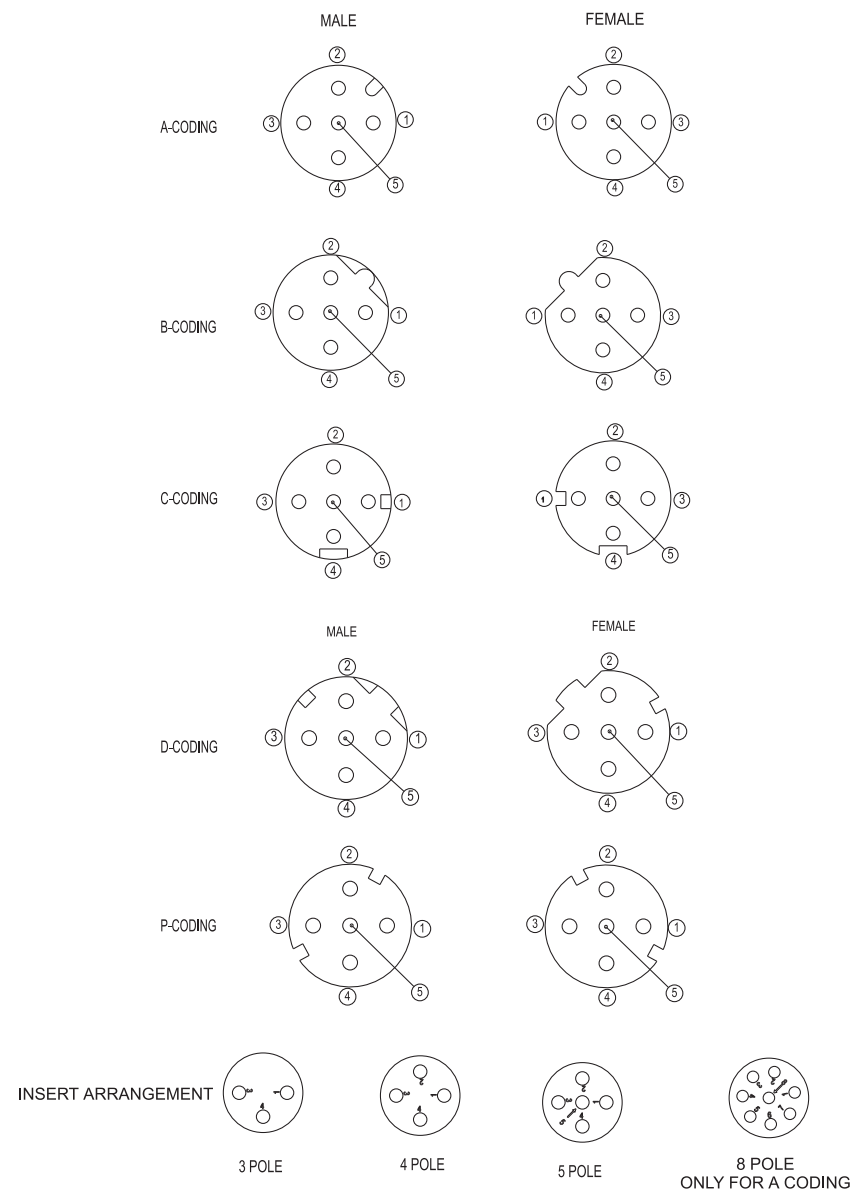
- Contact Resistance: $\leq 5\text{m}\Omega$
- Insulation Resistance: $> 20\text{M}\Omega$
- Rated Current: (3, 4, and 5 pole) = 4A, (8 pole) = 2A
- Operate Voltage:
(3 and 4 pole) = 250V AC/DC,
(5 pole) = 60V AC/DC,
(8 pole) = 30V AC/DC

Material

- Shell, Screw/Nut: Copper, Zinc, or Aluminum Alloy
- Contact: Brass with gold plating
- Insert: PA + Glass Filled meet UL 94V0
- Sealing: Epoxy Resin
- O-ring: NBR/SR

Cable characteristics:

- Material: UL certified PVC or customer requestment
- Cable size: 22AWG-20AWG, 3C, 4C, 5C & 8C
- Current rating: 4A
- Voltage rating: 250V AC/DC(3C, 4C), 60V AC/DC(5C), 30V(8C)
- Shielded/unshielded available.
- Heavy-duty application in harsh environments
- Highly resistant against abraion
- Good resistance against oil, lubricants, and coolants.
- Halogen free, hydrolysis and UV resistant.
- Flame retardant



How to order

For Receptacle

CJE12	C	R	ST	04	S	W	A	PCG	R	Blank
1	2	3	4	5	6	7	8	9	10	11

1. CJE12 M12 x 1.0 thread locking

7. Contact connection type

P-----solder PCB
W-----Solder wire
S-----Screw
C-----Crimp

2. Shell, coupling nut material :

A-----Al Alloy
C-----Copper Alloy
Z-----Zn Alloy

8. Coding type

A-----A code only for 8 position
 B-----B Code
 D-----D code
 C-----C Code
 P-----P Code

3、Shell system

R-----Receptacle

9 .Accessories type

PCG-----plastic cable gland
MCG-----Metal cable gland
Blank-----no Accessories

4. Backshell connection type

ST-----Straight
RA-----Right Angle (Solder PCB Inapplicability)

10 . Panel lock type for receptacle

R-----Real lock
F-----Front lock

5、 Insert arrangement

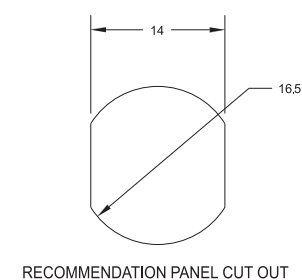
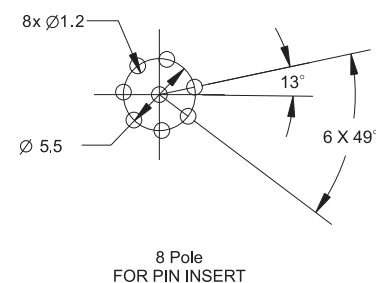
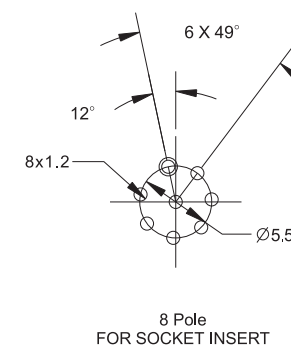
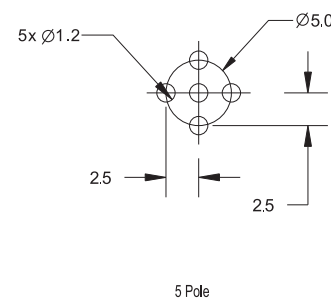
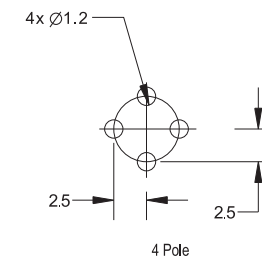
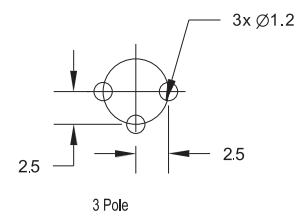
03, 04, 05, 08

11-----Contact finish

Blank-----Gold plated
2-----Silver plated
3-----Tin plated
4-----Nickel plated

6 . Contact type

S-----female contact
P-----male contact



PCB LAYOUT

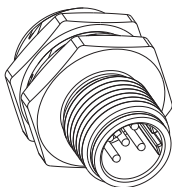
For Receptacle

RECEPTACLE REAL LOCK MALE SOLDER TYPE

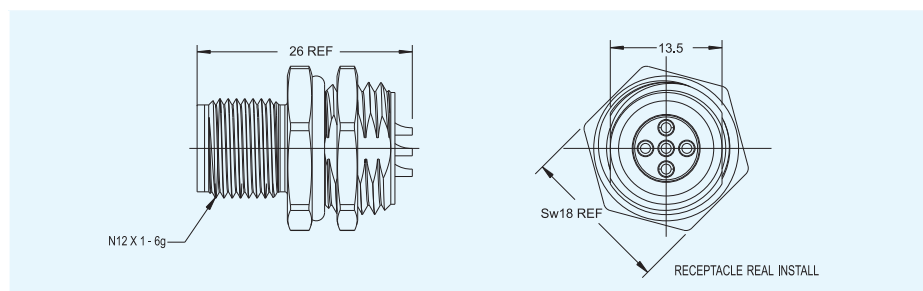
Part number

CJE12CRST_PW_R

- Blank (Gold) ,2,3,4 type contact available
- A,B,C,D,P code available
- 3,4,5,8 position available



DIMENSIONS (Millimeters)

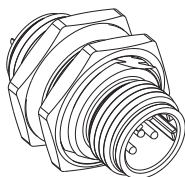


RECEPTACLE FRONT LOCK MALE SOLDER TYPE

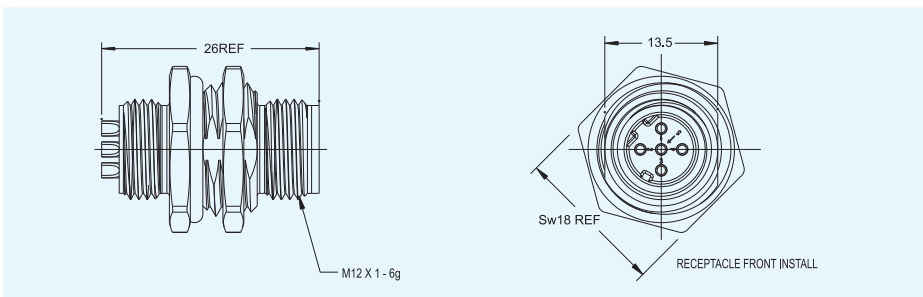
part number

CJE12CRST_PW_F

- Blank (Gold) ,2,3,4 type contact available
- A,B,C,D,P code available
- 3,4,5,8 position available



DIMENSIONS (Millimeters)

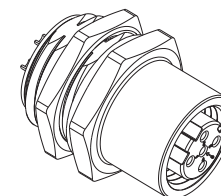


RECEPTACLE REAL LOCK FEMALE SOLDER TYPE

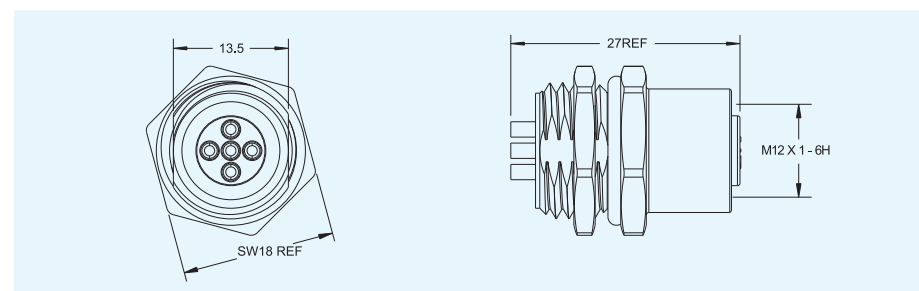
Part number

CJE12CRST_SW_R

- Blank (Gold) ,2,3,4 type contact available
- A,B,C,D,P code available
- 3,4,5,8 position available



DIMENSIONS (Millimeters)

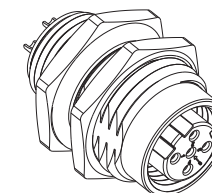


RECEPTACLE FRONT LOCK FEMALE SOLDER TYPE

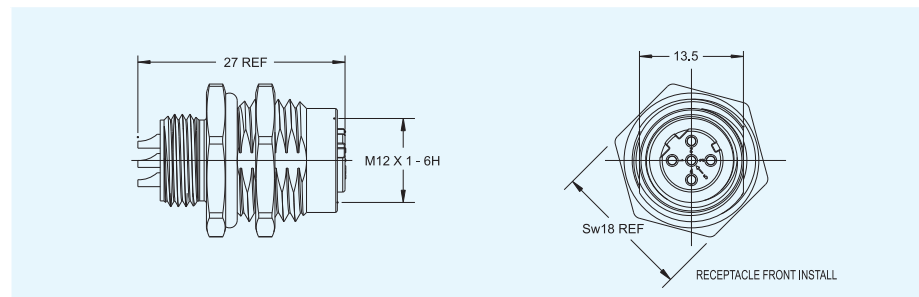
part number

CJE12CRST_SW_F

- Blank (Gold) ,2,3,4 type contact available
- A,B,C,D,P code available
- 3,4,5,8 position available



DIMENSIONS (Millimeters)

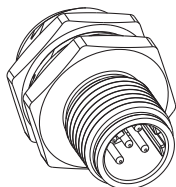


RECEPTACLE REAL LOCK MALE PCB TYPE

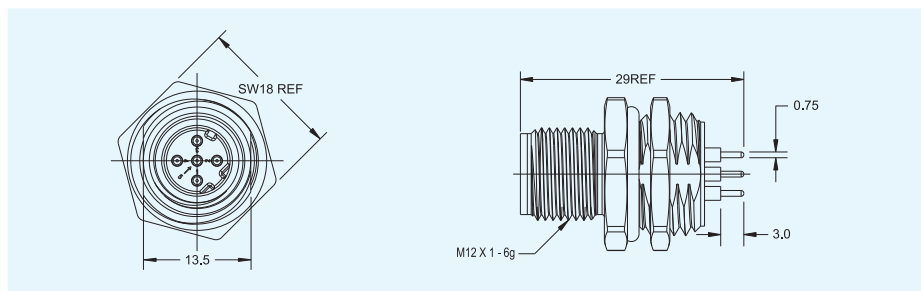
part number

CJE12CRST_PP_R

Blank (Gold) ,2,3,4 type contact available
A,B,C,D,P code available
3,4,5,8 position available



DIMENSIONS (Millimeters)

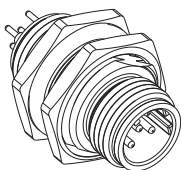


RECEPTACLE FRONT LOCK MALE PCB TYPE

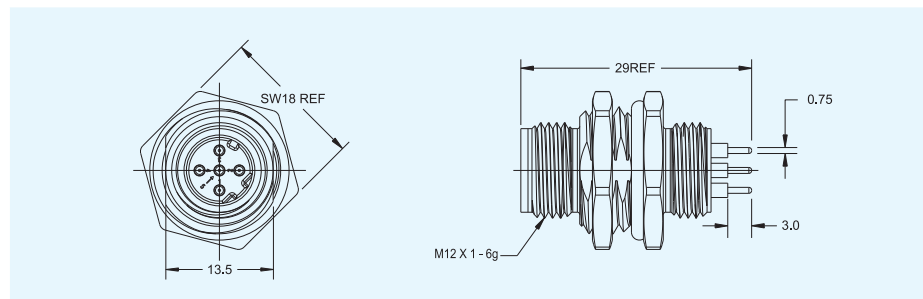
part number

CJE12CRST_PP_F

Blank (Gold) ,2,3,4 type contact available
A,B,C,D,P code available
3,4,5,8 position available



DIMENSIONS (Millimeters)

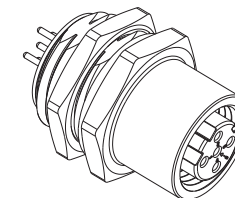


RECEPTACLE REAL LOCK FEMALE PCB TYPE

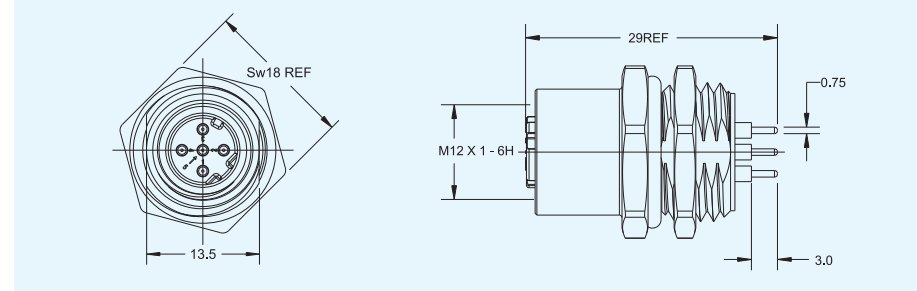
part number

CJE12CRST_SP_R

Blank (Gold) ,2,3,4 type contact available
A,B,C,D,P code available
3,4,5,8 position available



DIMENSIONS (Millimeters)

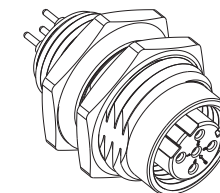


RECEPTACLE FRONT LOCK FEMALE PCB TYPE

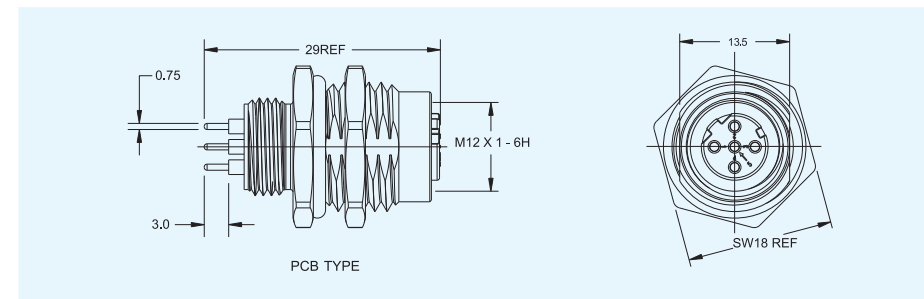
part number

CJE12CRST_SP_F

Blank (Gold) ,2,3,4 type contact available
A,B,C,D,P code available
3,4,5,8 position available



DIMENSIONS (Millimeters)



RECEPTACLE FRONT LOCK MALE SOLDER WITH PLASTIC CABLE GLAND

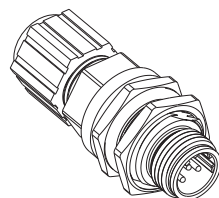
part number

CJE12RST_PW_FPCG

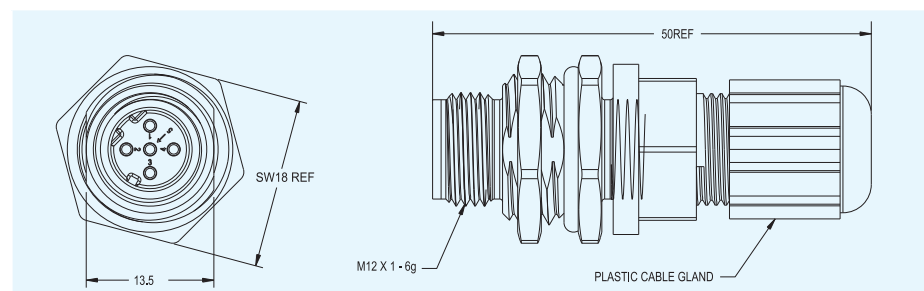
Blank (Gold) ,2,3,4 type contact available

A,B,C,D,P code available

3,4,5,8 position available



DIMENSIONS (Millimeters)



RECEPTACLE FRONT LOCK FEMALE SOLDER WITH PLASTIC CABLE GLAND

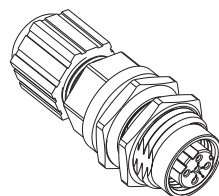
part number

CJE12RST_SW_FPCG

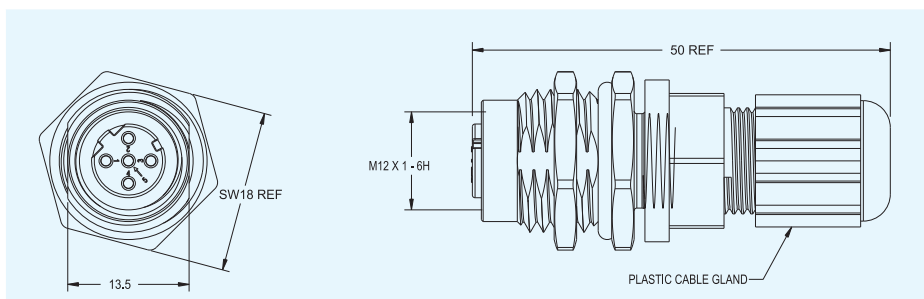
Blank (Gold) ,2,3,4 type contact available

A,B,C,D,P code available

3,4,5,8 position available



DIMENSIONS (Millimeters)



RECEPTACLE FRONT LOCK MALE SOLDER WITH METAL CABLE GLAND

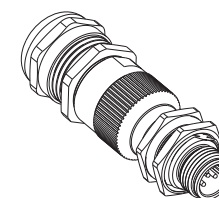
part number

CJE12RST_PW_FMCG

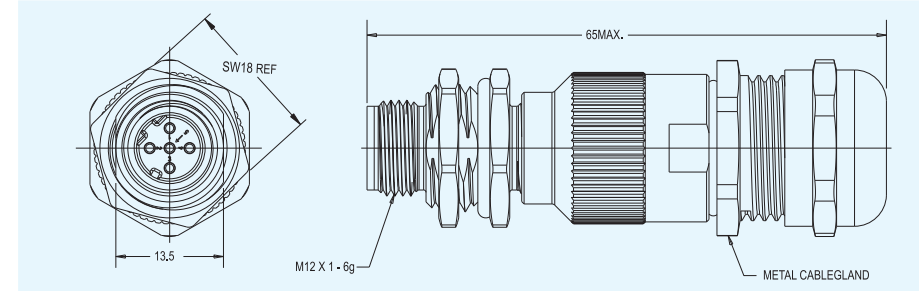
Blank (Gold) ,2,3,4 type contact available

A,B,C,D,P code available

3,4,5,8 position available



DIMENSIONS (Millimeters)



RECEPTACLE FRONT LOCK FEMALE SOLDER WITH METAL CABLE GLAND

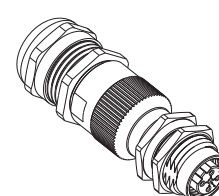
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CJE12RST_SW_FMCG

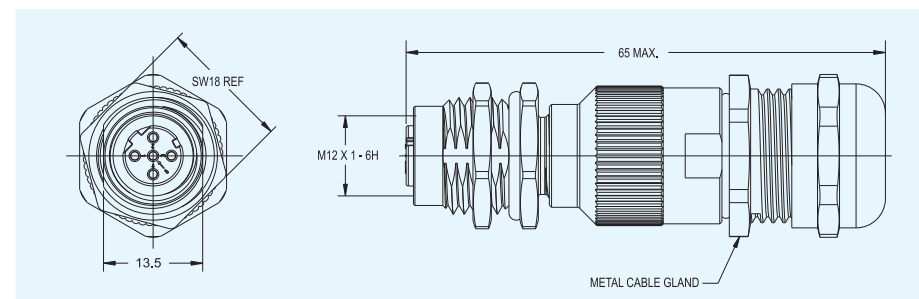
Blank (Gold) ,2,3,4 type contact available

A,B,C,D,P code available

3,4,5,8 position available



DIMENSIONS (Millimeters)



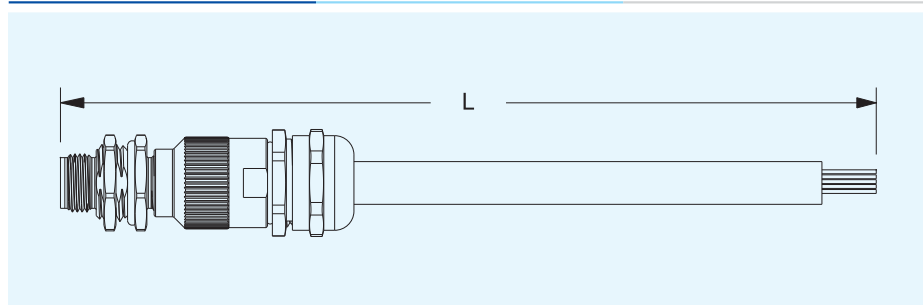
RECEPTACLE FRONT LOCK MALE WITH METAL CABLE GLAND & CABLE ASSEMBLY

part number

CJE12RST_PW_FMCGL

- Blank (Gold) ,2,3,4 type contact available
- For customer request cable length optional
- A,B,C,D,P code available
- 3,4,5,8 position available

DIMENSIONS (Millimeters)



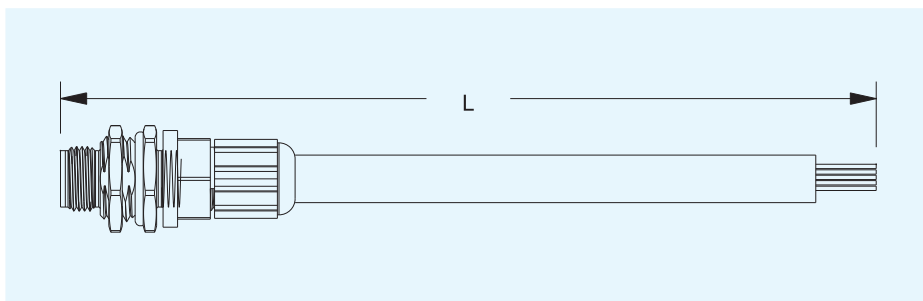
RECEPTACLE FRONT LOCK MALE WITH PLASTIC CABLE GLAND & CABLE ASSEMBLY

part number

CJE12RST_PW_FPCGL

- Blank (Gold) ,2,3,4 type contact available
- For customer request cable length optional
- A,B,C,D,P code available
- 3,4,5,8 position available

DIMENSIONS (Millimeters)



How to order

For Plug

CJE12	C	P	ST	04	S	W	A	PCG	L	Blank
1	2	3	4	5	6	7	8	9	10	11

1. CJE12 M12 x 1.0 thread locking

2. Shell, coupling nut material :

A-----Al Alloy
C-----Copper Alloy
Z-----Zn Alloy

3. Shell system

P-----Plug

4. Backshell connection type

ST-----straight
RA-----Right Angle

5. Insert arrangement

03, 04, 05, 08

6. Contact type

S-----female contact
P-----male contact

7. Contact connection type

W-----Solder wire
C-----crimp
S-----Screw

8 Coding type

A-----A code only for 8 position
B-----B Code
D-----D code
C-----C Code
P-----P code

9 Accessories type

PCG-----plastic cable gland
MCG-----Metal cable gland
Blank-----no Accessories

10. For cable assembly optional

Overmolding cable assembly ,length is optional
L----for cable length, optional

11-----Contact finish

Blank-----Gold plated
2-----Silver plated
3-----Tin plated
4-----Nickel plated

PLUG STRAIGHT MALE WITH PLASTIC CABLE GLAND

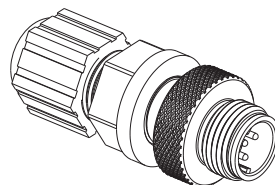
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CJE12CPST_PW_PCG

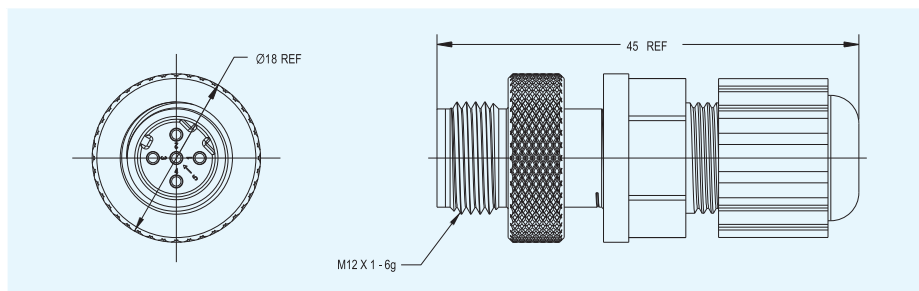
Blank (Gold) ,2,3,4 type contact available

A,B,C,D,P code available

3,4,5,8 position available



DIMENSIONS (Millimeters)



PLUG RIGHT ANGLE MALE WITH PLASTIC CABLE GLAND

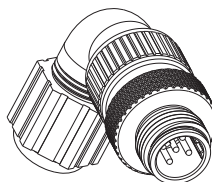
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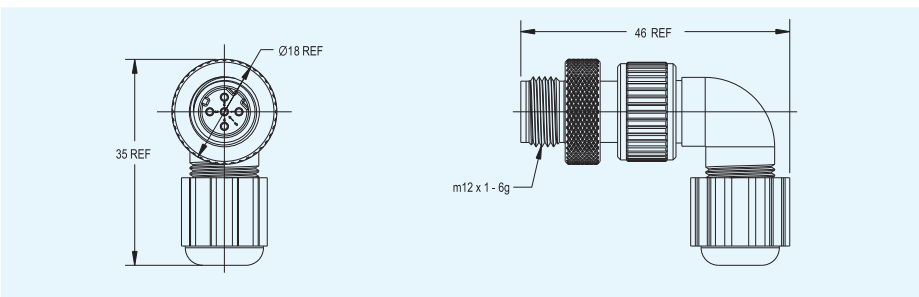
Blank (Gold) ,2,3,4 type contact available

A,B,C,D,P code available

3,4,5,8 position available



DIMENSIONS (Millimeters)



PLUG STRAIGHT FEMALE WITH PLASTIC CABLE GLAND

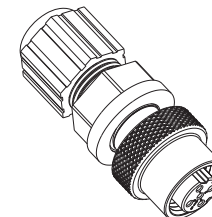
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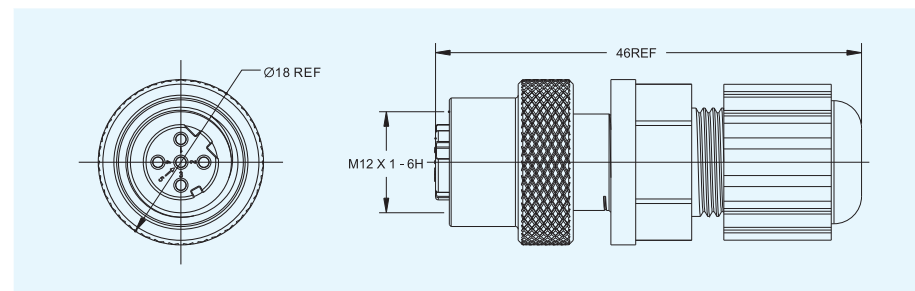
Blank (Gold) ,2,3,4 type contact available

A,B,C,D,P code available

3,4,5,8 position available



DIMENSIONS (Millimeters)



PLUG RIGHT ANGLE FEMALE WITH PLASTIC CABLE GLAND

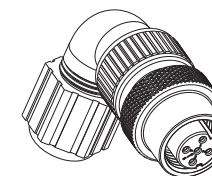
part number

CJE12CPRA_SW_PCG

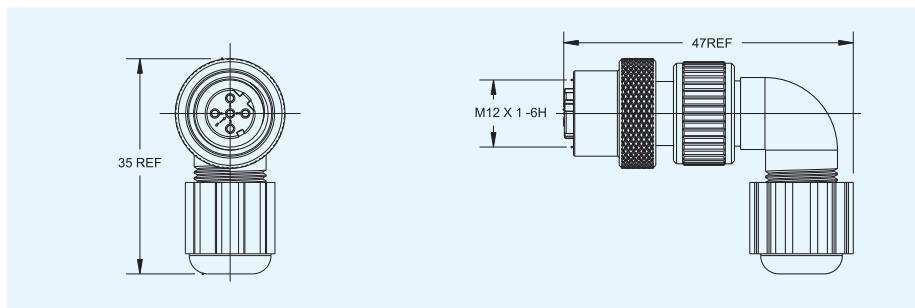
Blank (Gold) ,2,3,4 type contact available

A,B,C,D,P code available

3,4,5,8 position available



DIMENSIONS (Millimeters)

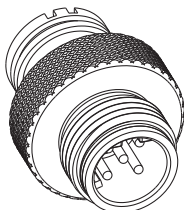


PLUG MALE

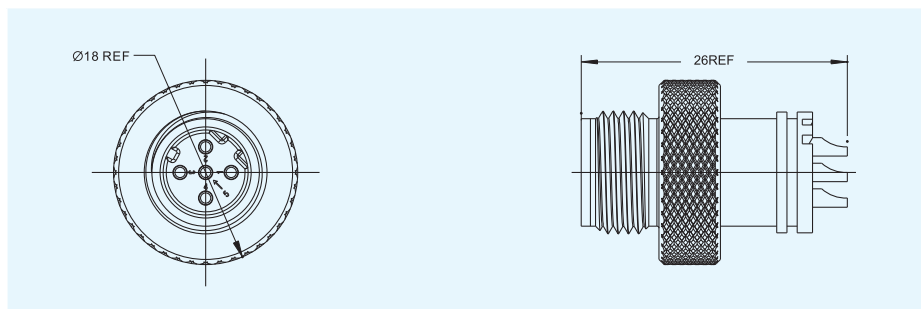
part number

CJE12CPST_PW

- Blank (Gold) ,2,3,4 type contact available
- A,B,C,D,P code available
- 3,4,5,8 position available



DIMENSIONS (Millimeters)

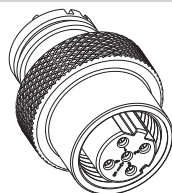


PLUG FEMALE

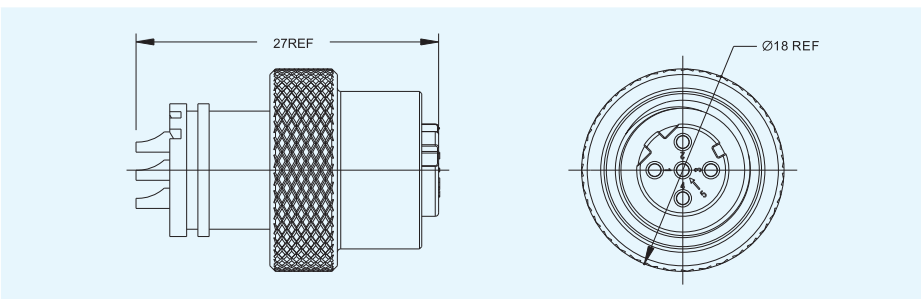
part number

CJE12CPST_SW

- Blank (Gold) ,2,3,4 type contact available
- A,B,C,D,P code available
- 3,4,5,8 position available



DIMENSIONS (Millimeters)



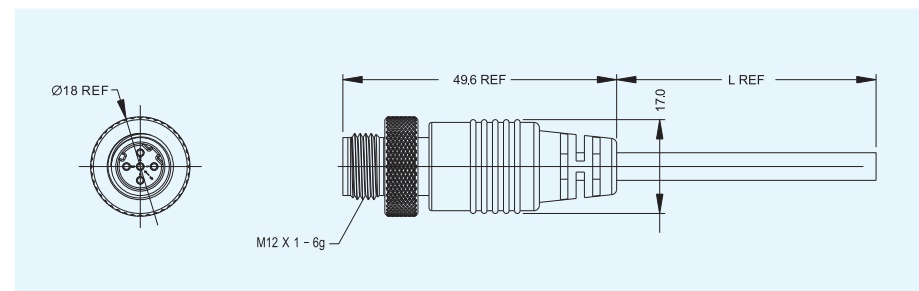
PLUG STRAIGHT MALE OVERMOLDING CABLE ASSEMBLY

part number

CJE12CPST_P

- Blank (Gold) ,2,3,4 type contact available
- A,B,C,D,P code available
- Solder wire(W) / crimp(C) type available
- 3,4,5,8 position available

DIMENSIONS (Millimeters)



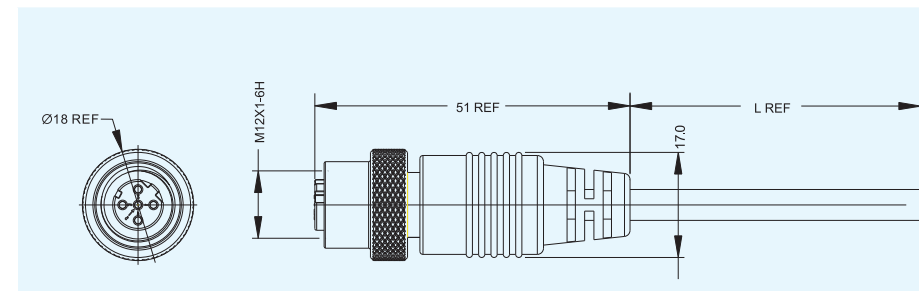
PLUG STRAIGHT FEMALE OVERMOLDING CABLE ASSEMBLY

part number

CJE12CPST_S

- Blank (Gold) ,2,3,4 type contact available
- A,B,C,D,P code available
- Solder wire(W) / crimp(C) type available
- 3,4,5,8 position available

DIMENSIONS (Millimeters)



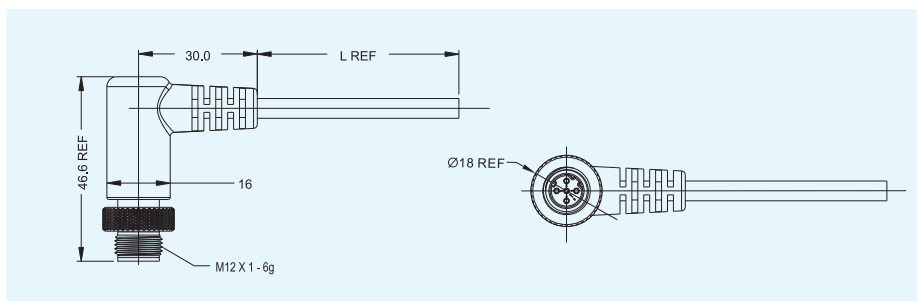
PLUG RIGHT ANGLE MALE OVERMOLDING CABLE ASSEMBLY

part number

CJE12CPRA_P L

- Blank (Gold) ,2,3,4 type contact available
- A,B,C,D,P code available
- Solder wire(W) / crimp(C) type available
- 3,4,5,8 position available

DIMENSIONS (Millimeters)



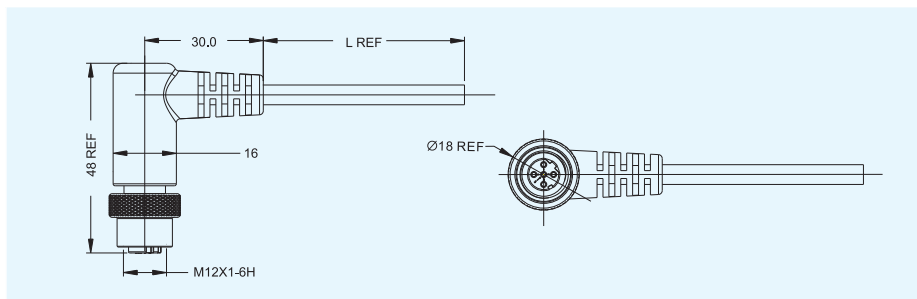
PLUG RIGHT ANGLE FEMALE OVERMOLDING CABLE ASSEMBLY

part number

CJE12CPRA_S L

- Blank (Gold) ,2,3,4 type contact available
- A,B,C,D,P code available
- Solder wire(W) / crimp(C) type available
- 3,4,5,8 position available

DIMENSIONS (Millimeters)



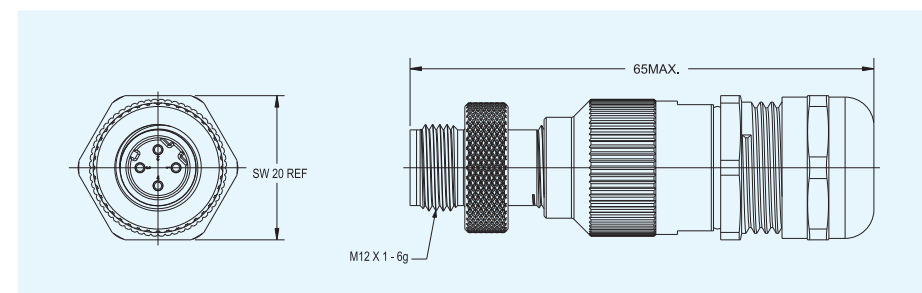
PLUG STRAIGHT MALE WITH METAL CABLE GLAND TYPE

part number.

CJE12CPST_PW MCG

- Blank (Gold) ,2,3,4 type contact available
- A,B,C,D,P code available
- 3,4,5,8 position available

DIMENSIONS (Millimeters)



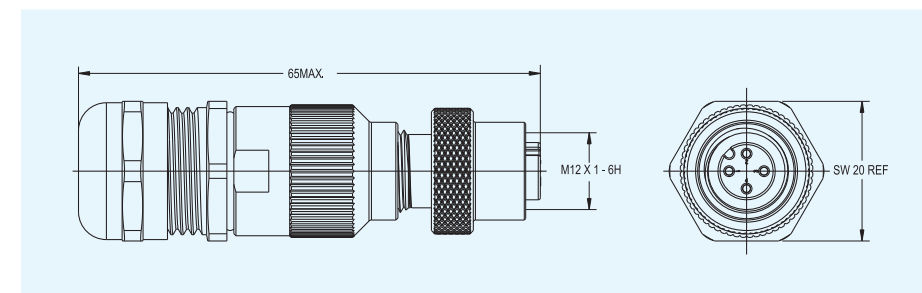
PLUG STRAIGHT FEMALE WITH METAL CABLE GLAND TYPE

part number .

CJE12CPST_SW MCG

- Blank (Gold) ,2,3,4 type contact available
- A,B,C,D,P code available
- 3,4,5,8 position available

DIMENSIONS (Millimeters)

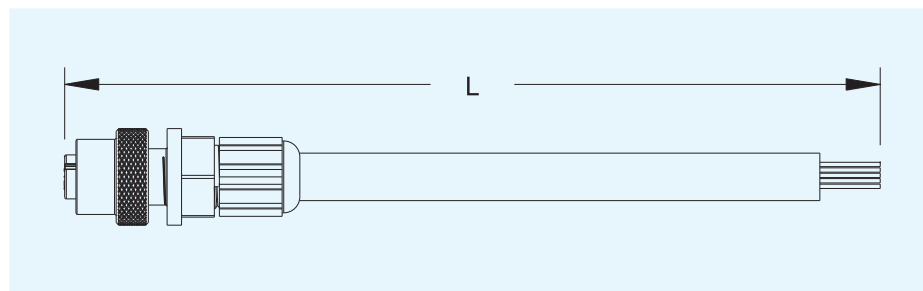


PLUG STRAIGHT FEMALE WITH PLASTIC CABLE GLAND & CABLE ASSEMBLY

part number.

CJE12CPST_SW_PCGL
 Blank (Gold) ,2,3,4 type contact available
 A,B,C,D,P code available
 3,4,5,8 position available

DIMENSIONS (Millimeters)

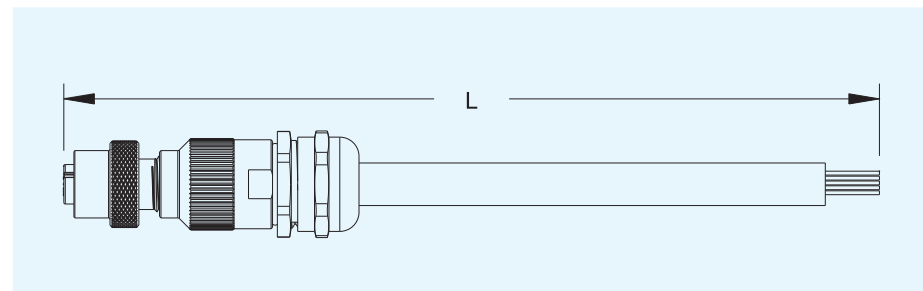


PLUG STRAIGHT FEMALE WITH METAL CABLE GLAND & CABLE ASSEMBLY

part number .

CJE12CPST_SW_MCGL
 Blank (Gold) ,2,3,4 type contact available
 A,B,C,D,P code available
 3,4,5,8 position available

DIMENSIONS (Millimeters)



Max-M12 Connector

Electrical & Environmental Characteristics:

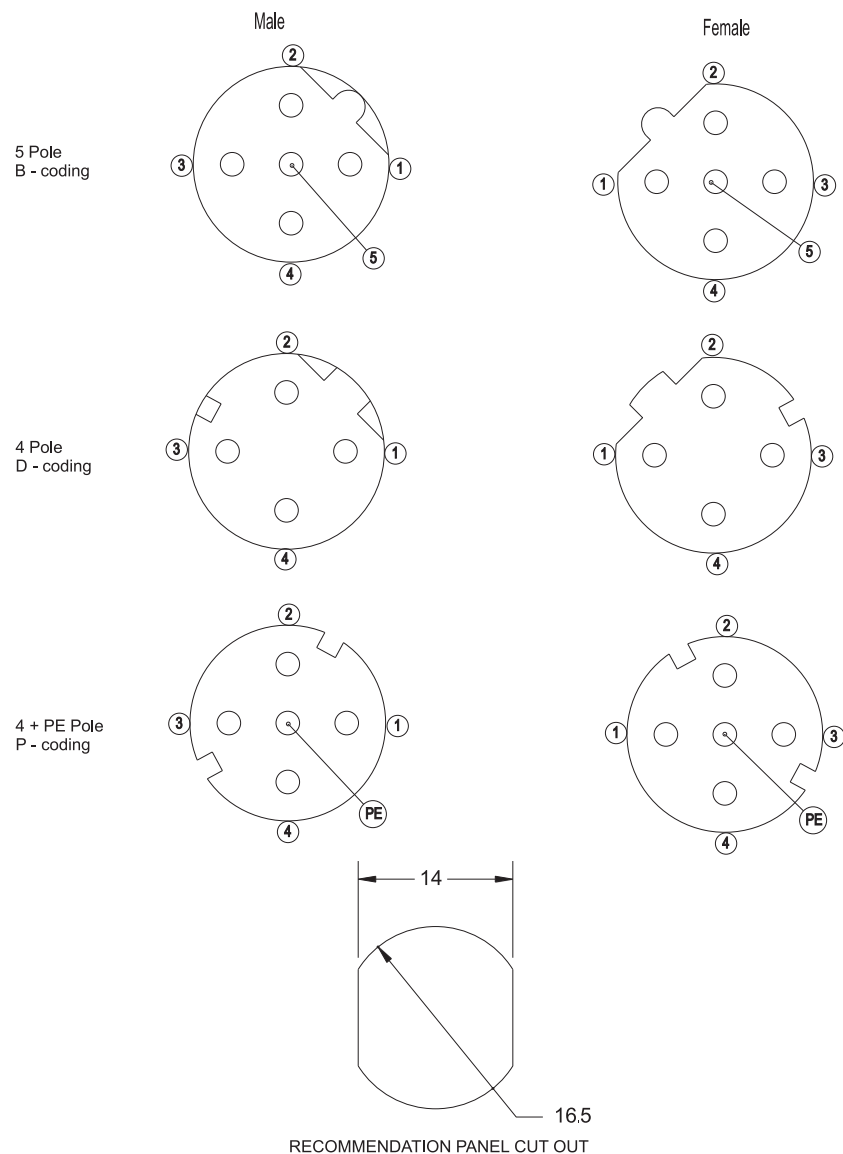
- SAE J 2839 Compliant
- IP 67 & IP 69 K Compliant
- Backward compatible with IEC 61076-2-101 (M12) with higher environmental rating
- Provisions for overall cable shield or drain wire to the connector plug housing
- Connection resistance – maximum millivolt drop of 50 millivolts



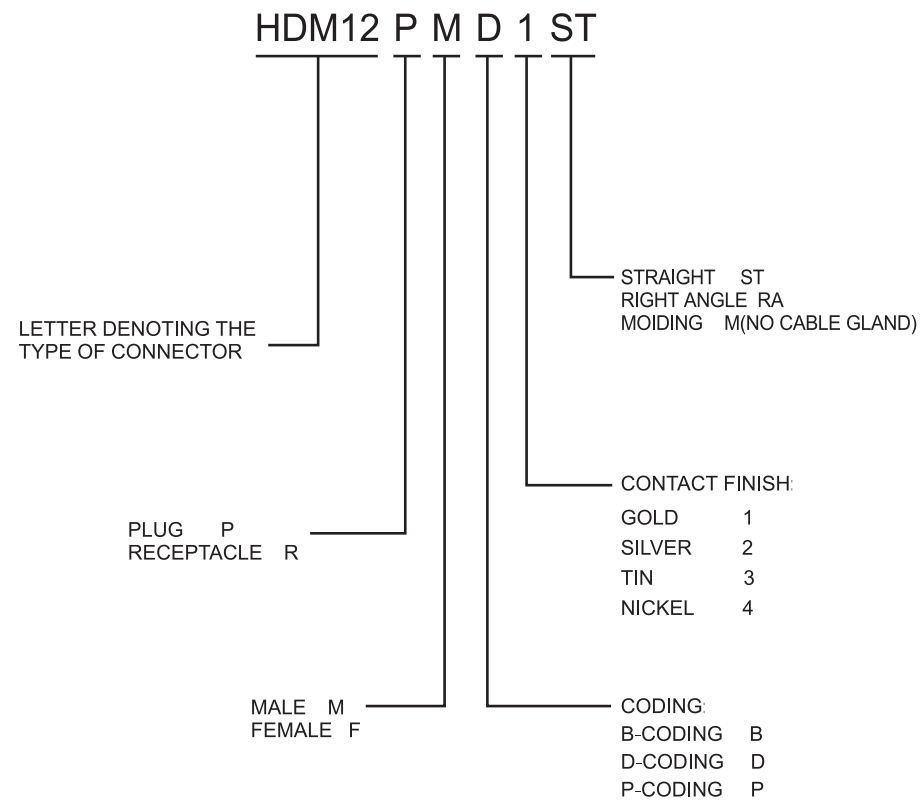
Operating Voltage	5 pin - 60V AC/DC 4 pin - 250V AC/DC	IEC 60664
Current Rating	4A MAX.	IEC 60512 TEST 5B
Temperature Rating	-40°C - +125°C	SAE J2030, 6 . 13
Dielectric Withstanding Voltage	1000V	IEC 60512, TEST 4A
Insulation Resistance	>20 Megohms	SAE J2030, 6 . 3
Rated Impulse Voltage	1500V	IEC 60664-1
Contact Resistance	<10 mΩ	IEC60512 TEST 2A
Vibration, Sine	10 - 2000 Hz, 20g, <1 us	SAE J2030, 6 . 15
Shock, Half Sine	10 CYCLES, 50g, 11mg, <1 us	SAE J2030, 6 . 16
Temperature Life	1000HAT 125°C + 3°C	SAE J2030, 6 . 6
Durability	50 CYCLES MIN.	SAE J2030, 6 . 11
Salt Fog	96H	SAE J2030, 6 . 12
Protection Class	IP67 and IP69K	IEC 60529
Wire Gauge	0.5 mm2 (20AWG) or 0.8 mm2 (18AWG)/ 0.75 mm2	SAE J1128 / ISO 6722
Cable OD.	ø 12.7 MAX.	
Recommended Torque	M12 THREAD, 0.8 - 1.0 Nm	
Connector Retention	444 N MIN	SAE J2030, 6 . 20
Contact Retention	110 N MIN	SAE J2030, 6 . 18

Applications:

- Construction Machinery & Equipment
- Forestry Equipment
- Navigation, GPS and Telematics Applications
- Mining Machinery & Equipment
- Agricultural Machinery & Equipment
- Harsh Environment Sensors, Controllers, Actuators, Switches, etc.



How to order



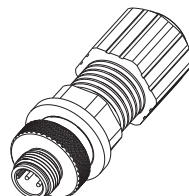
PLUG STRAIGHT MALE

part number

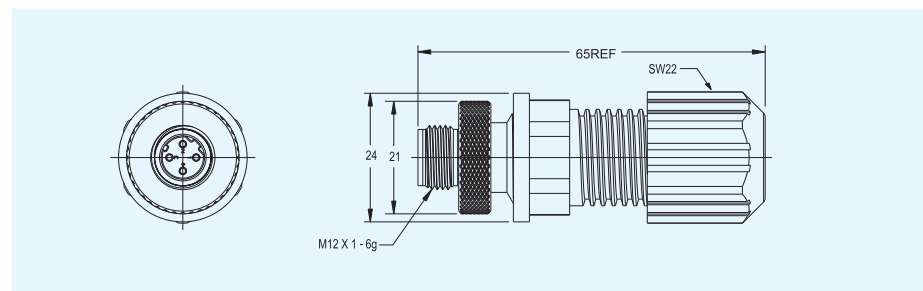
HDM12PM ST

1,2,3,4 type contact available

B,D,P, code available



DIMENSIONS (Millimeters)



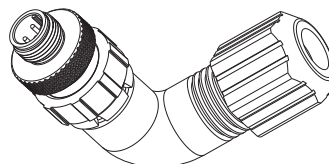
PLUG RIGHT ANGLE MALE

part number

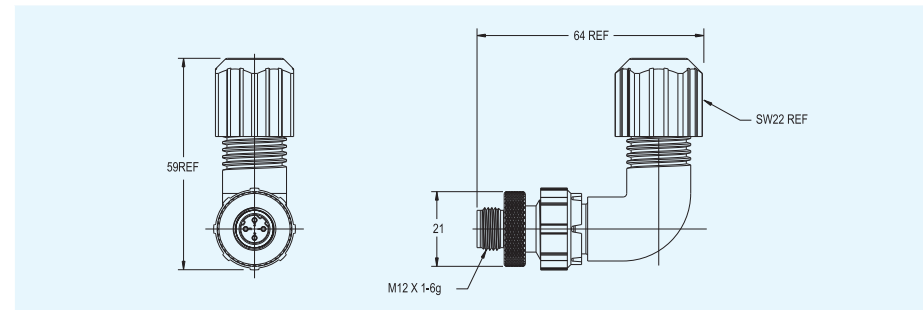
HDM12PM RA

1,2,3,4 type contact available

B,D,P, code available



DIMENSIONS (Millimeters)



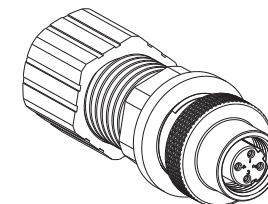
PLUG STRAIGHT FEMALE

part number

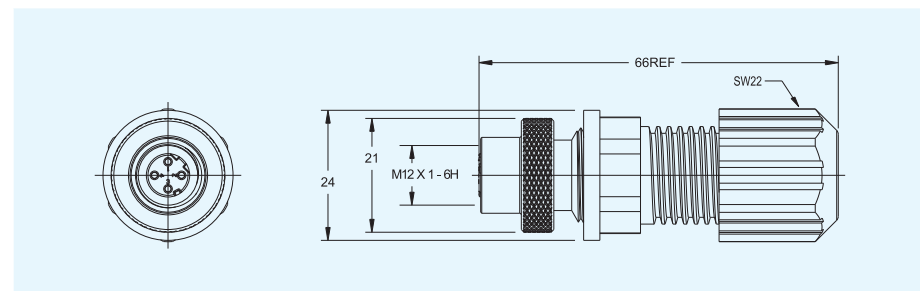
HDM12PF ST

1,2,3,4 type contact available

B,D,P, code available



DIMENSIONS (Millimeters)



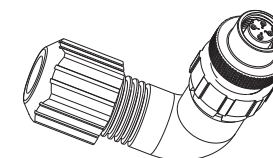
PLUG RIGHT ANGLE FEMALE

part number

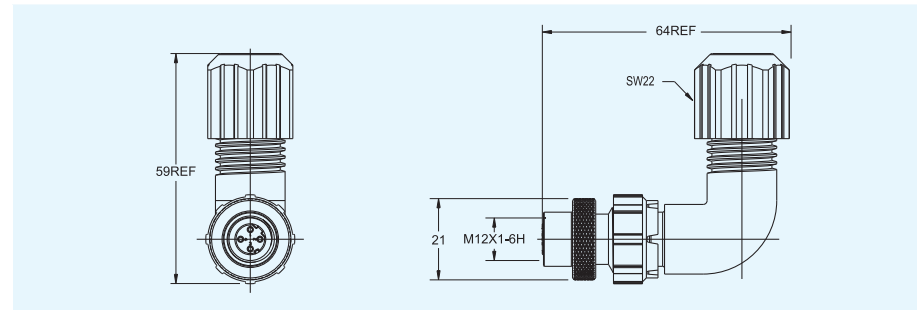
HDM12PF RA

1,2,3,4 type contact available

B,D,P, code available



DIMENSIONS (Millimeters)



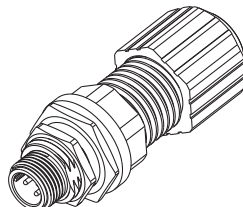
RECEPTACLE STRAIGHT MALE

part number

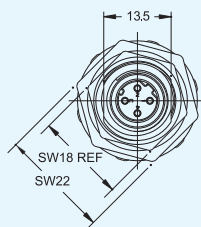
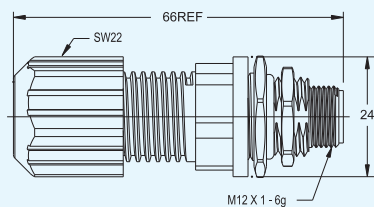
HDM12RM-ST

1,2,3,4 type contact available

B,D,P, code available



DIMENSIONS (Millimeters)



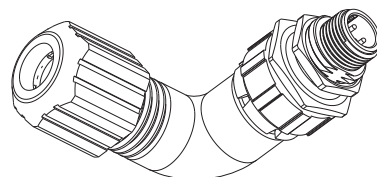
RECEPTACLE RIGHT ANGLE MALE

part number

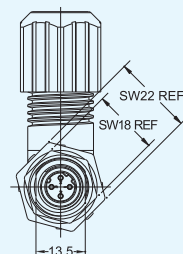
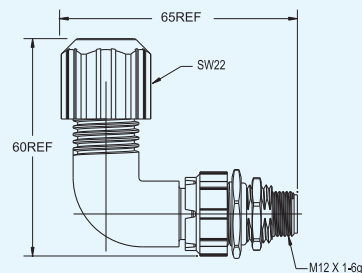
HDM12RM-RA

1,2,3,4 type contact available

B,D,P, code available



DIMENSIONS (Millimeters)



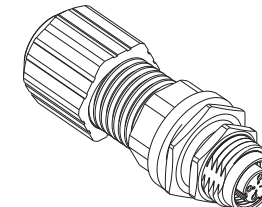
RECEPTACLE STRAIGHT FEMALE

part number

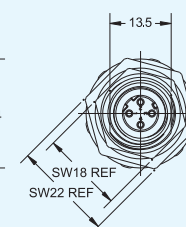
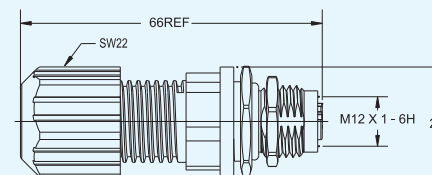
HDM12RF-ST

1,2,3,4 type contact available

B,D,P, code available



DIMENSIONS (Millimeters)



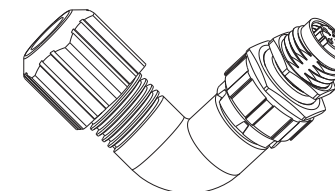
RECEPTACLE RIGHT ANGLE FEMALE

part number

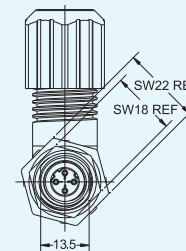
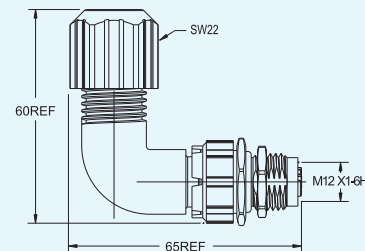
HDM12PF-RA

1,2,3,4 type contact available

B,D,P, code available



DIMENSIONS (Millimeters)



M8 SPECIFICATION

Mechanical Data:

- Durability: 500 Cycles
- Salt Spray: 720Hours different plating and base material
- Sealing Requirement: IP 67/IP68(mated)
- Operating temperature -40°C~+100°C

Standards:

- Connectors: IEC61076-2-101

Electrical:

- Insulation resistance: $\geq 20M$ ohms
- Contact resistance $\leq 5m$ ohms
- Rated current: 4A
- Operating voltage 60V AC/DC

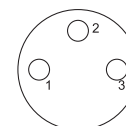
Materials:

- Shell, Screw/Nut: Copper/Al alloy/ Zn alloy with nickel plating
- Contact: copper with gold plating
- Insert material: PA+GF meet UL 94V0
- Sealing: Epoxy resin
- O-ring: NBR/SR

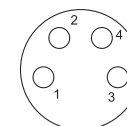
Cable characteristics:

- Material: UL certified PVC or customer requestment
- Cable size: 22AWG-20AWG, 3C, 4C, 5C
- Current rating: 4A
- Voltage rating: 60V AC/DC
- Shielded/unshielded available.
- Heavy-duty application in harsh environments
- Highly resistant against abraion
- Good resistance against oil, lubricants, and coolants.
- Halogen free, hydrolysis and UV resistant.
- Flame retardant

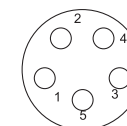
INSERT ARRANGEMENT



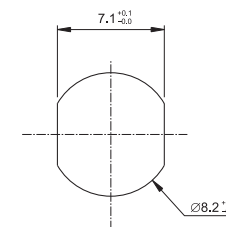
3 Pole



4 Pole



5 Pole



RECOMMENDATION PANELCUT OUT

CJE8 C R ST 04 S W PCG R L Blank

M8 X 1.0 THREAD LOCKING

SHELL COUPLING NUT MATERIAL,
A ALUMINUM ALLOY
C COPPER ALLOY
Z Zn ALLOY

SHELL SYSTEM,
R RECEPTACLE
P PLUG

BACKSHELL CONNECTION TYPE
ST STRAIGHT
RA RIGHT ANGLE

INSERT ARRANGEMENT
03,04,05

Contact finish
Blank-----Gold plated
2-----Silver plated
3-----Tin plated
4-----Nickel plated

FOR OVERMOLDING CABLE ASSEMBLY,
LENGTH IS OPTIONAL

PANEL LOCK TYPE , ONLY FOR RECEPTACLE
R REAL LOCK
F FRONT LOCK

ACCESSORIES TYPE,
PCG PLASTIC CABLEGLAND
MCG METAL CABLEGLAND
BLAND NO ACCESSORIES

CONTACT CONNECTION TYPE,
P SOLDER PCB
W SOLDER WIRE
C CRIMP WITH MOLDING CABLE ASSEMBLY

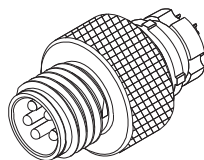
Contact type
S-----female contact
P-----male contact

PLUG STRAIGHT MALE CABLE ASSEMBLY

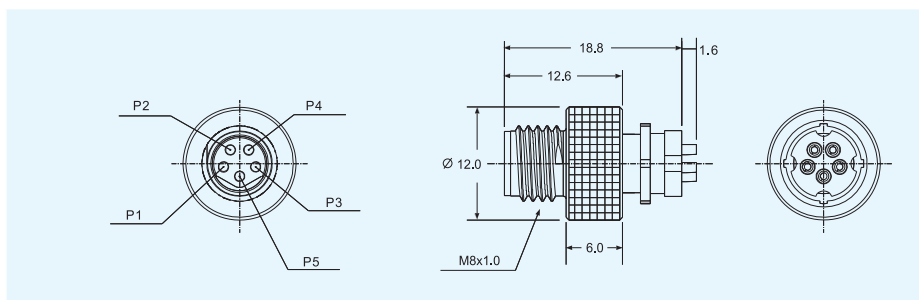
part number

CJE8CPST_PW

Blank (Gold) ,2,3,4 type contact available
3,4,5 position available



DIMENSIONS (Millimeters)

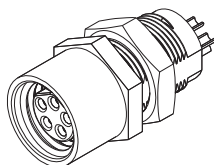


RECEPTACLE REAL LOCK FEMALE SOLDER TYPE

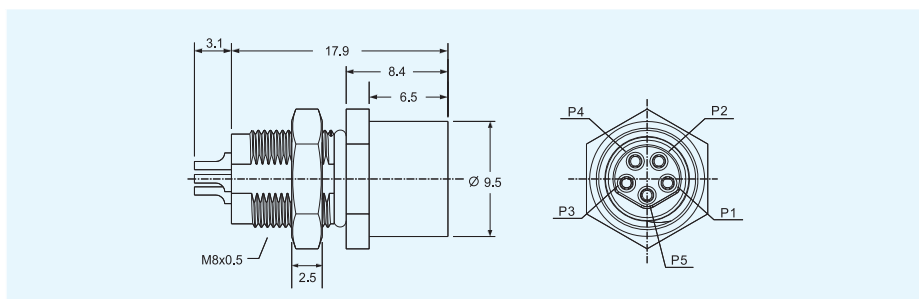
part number

CJE8CRST_SWR

Blank (Gold) ,2,3,4 type contact available
3,4,5 position available



DIMENSIONS (Millimeters)



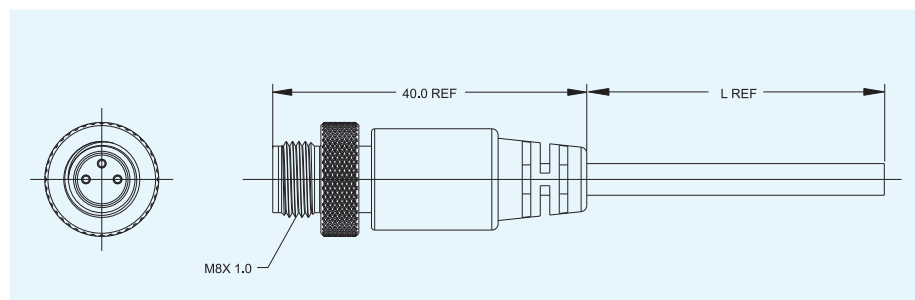
PLUG STRAIGHT MALE OVERMOLDING CABLE ASSEMBLY

part number

CJE8CPST_P L

Blank (Gold) ,2,3,4 type contact available
Solder wire(W)/crimp(C) type available
3,4,5 position available

DIMENSIONS (Millimeters)



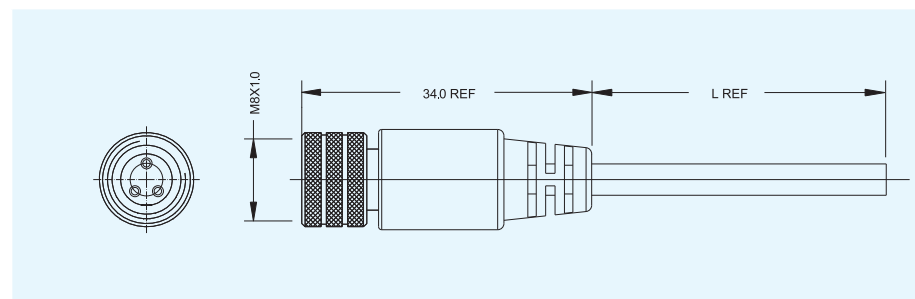
PLUG STRAIGHT FEMALE OVERMOLDING CABLE ASSEMBLY

part number

CJE8CPST_S L

Blank (Gold) ,2,3,4 type contact available
Solder wire(W)/crimp(C) type available
3,4,5 position available

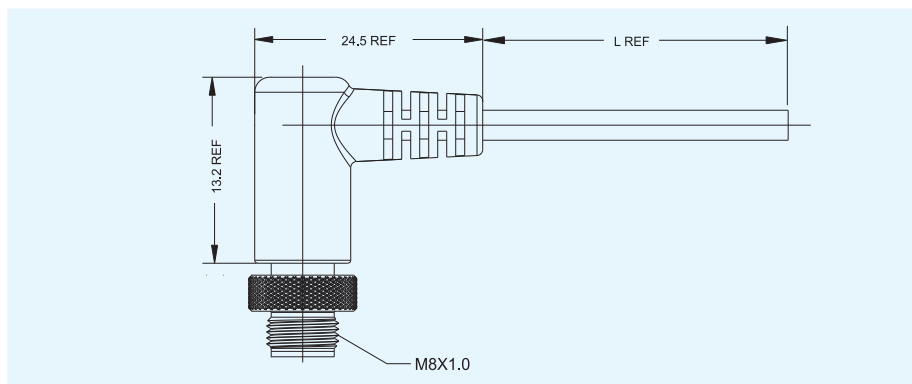
DIMENSIONS (Millimeters)



PLUG RIGHT ANGLE MALE OVERMOLDING CABLE ASSEMBLY

part number
CJE8CPRA_P L

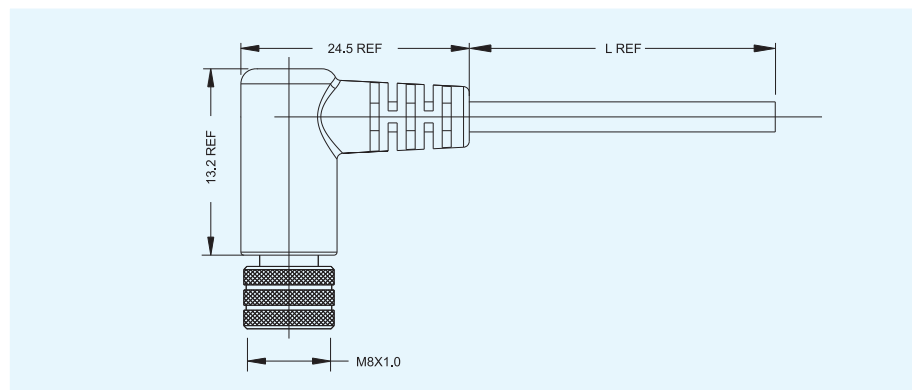
- Blank (Gold) ,2,3,4 type contact available
- Solder wire(W)/crimp(C)type available
- 3,4,5 position available



PLUG RIGHT ANGLE FEMALE OVERMOLDING CABLE ASSEMBLY

part number
CJE8CPRA_S L

- Blank (Gold) ,2,3,4 type contact available
- Solder wire(W)/crimp(C)type available
- 3,4,5 position available



WITH SHIELD CABLE INSTALL INSTRUCTION

- Strip cable jacket about 30mm, fold the cable shield back on the jacket. Trim the insulation about 20mm.



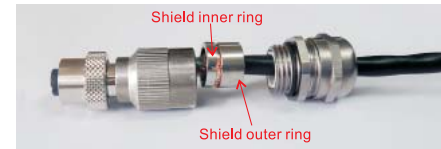
- Strip insulation 5mm, then solder conductor to connector contact cup. Covered the joint with tube.



- Install the adapter to the connector, screw tightly.



- Make the shield between inner ring and outer ring, trim excess shield



- Push the inner ring and outer ring with shield into the adapter, screw the body and cap of cable gland



WITHOUT SHIELD CABLE INSTALL INSTRUCTION

- Strip cable jacket 30mm.



- Strip insulation 5mm, then solder conductor to connector. Covered the joint with tube.



- Screw the cable gland body and cable gland cap.

