

# 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

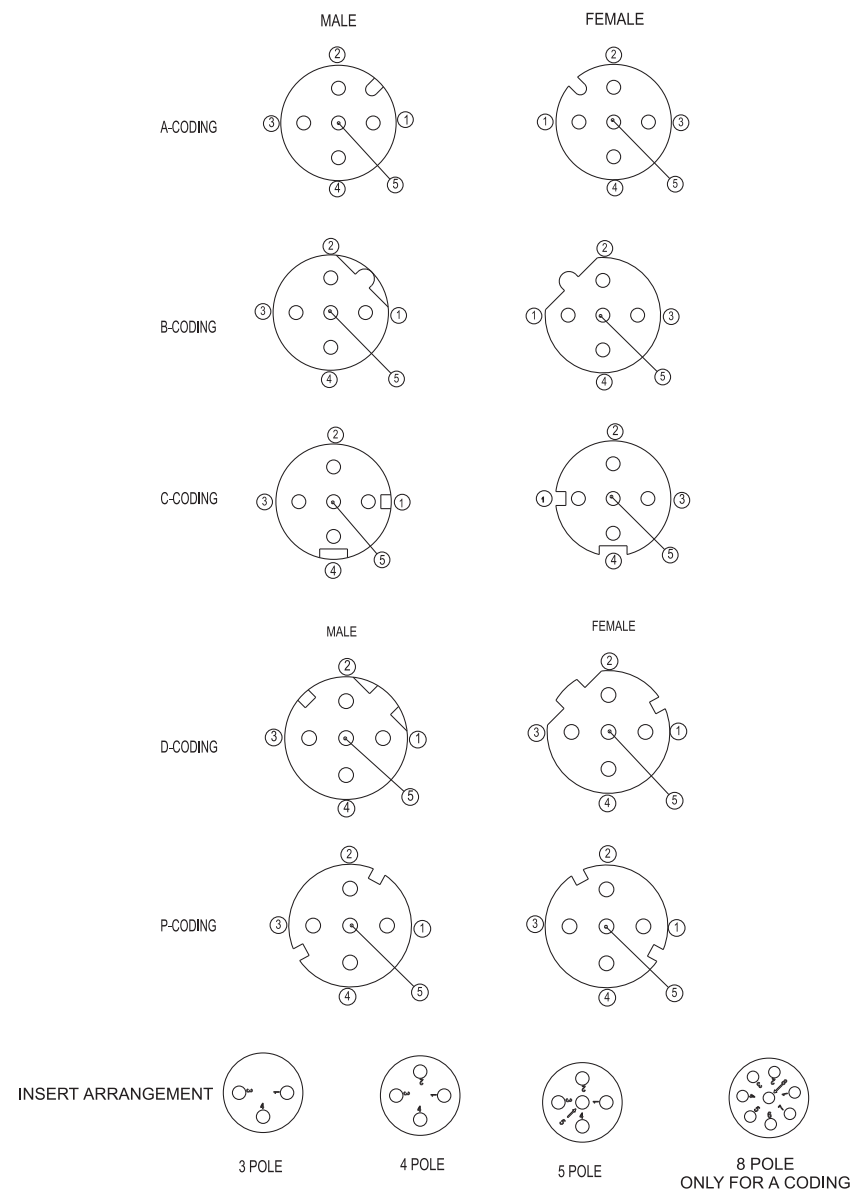
- Contact Resistance:  $\leq 5\text{m}\Omega$
- Insulation Resistance:  $> 20\text{M}\Omega$
- Rated Current: (3, 4, and 5 pole) = 4A, (8 pole) = 2A
- Operate Voltage:
  - (3 and 4 pole) = 250V AC/DC,
  - (5 pole) = 60V AC/DC,
  - (8 pole) = 30V AC/DC

#### 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

#### 6. Contact type

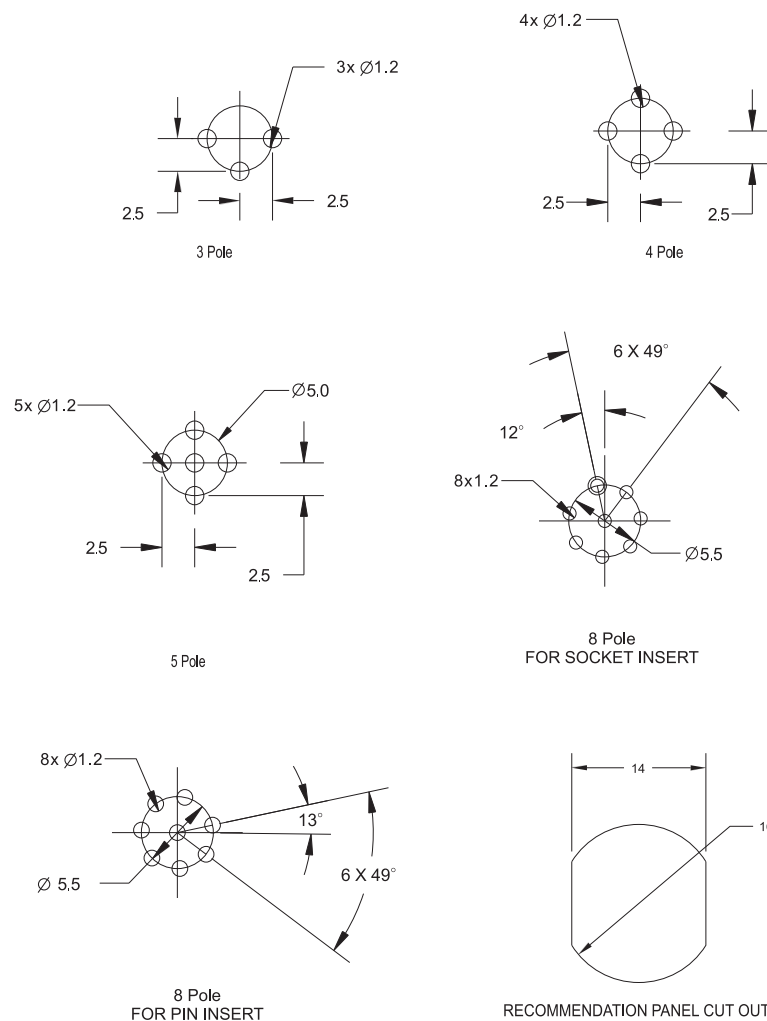
S-----female contact  
P-----male contact

#### 11. Contact finish

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

### PCB LAYOUT

For Receptacle



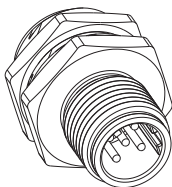


### RECEPTACLE REAL LOCK MALE SOLDER TYPE

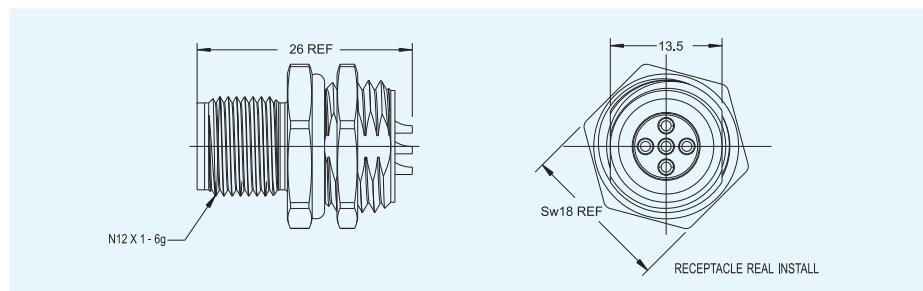
Part number

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)

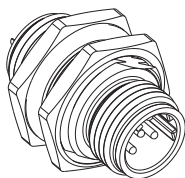


### RECEPTACLE FRONT LOCK MALE SOLDER TYPE

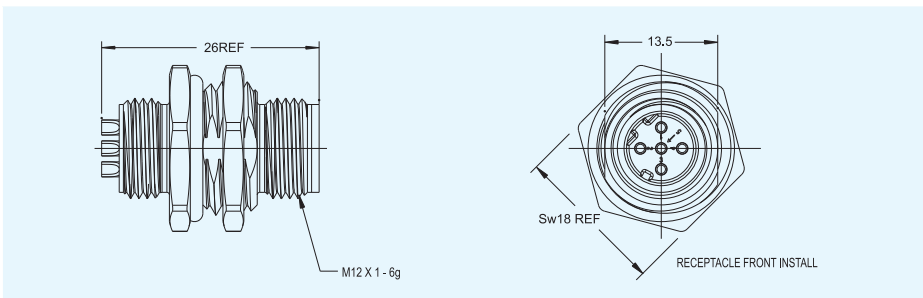
part number

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)

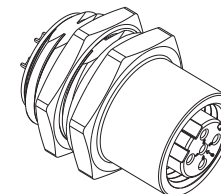


### RECEPTACLE REAL LOCK FEMALE SOLDER TYPE

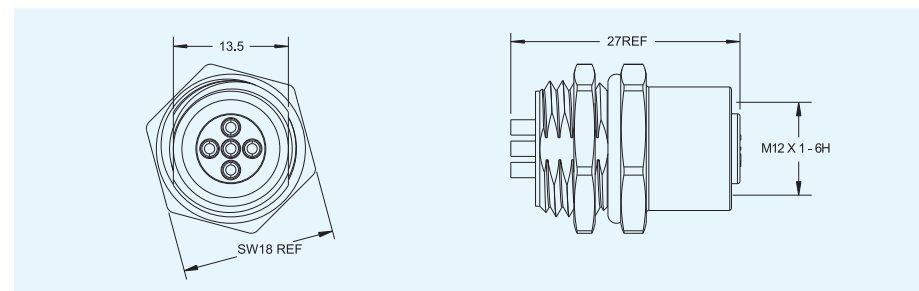
Part number

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)

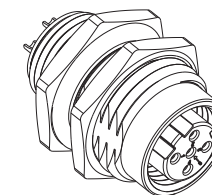


### RECEPTACLE FRONT LOCK FEMALE SOLDER TYPE

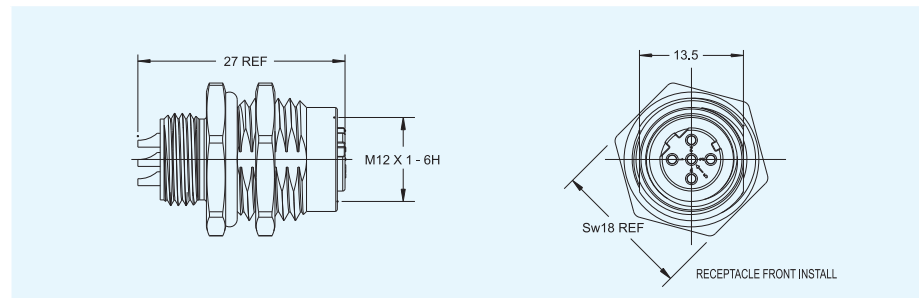
part number

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)

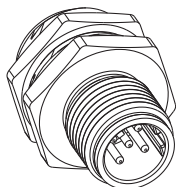


### RECEPTACLE REAL LOCK MALE PCB TYPE

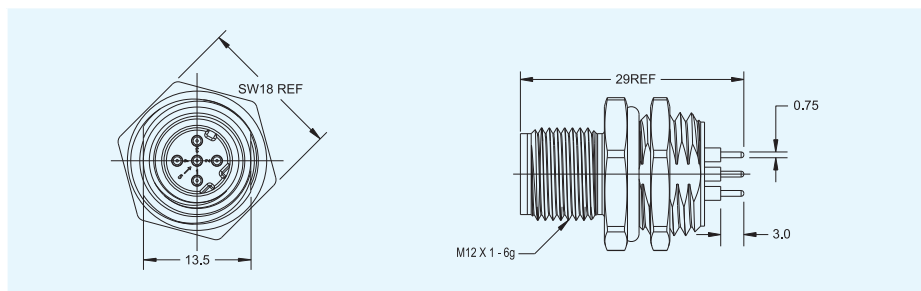
part number

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)

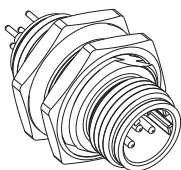


### RECEPTACLE FRONT LOCK MALE PCB TYPE

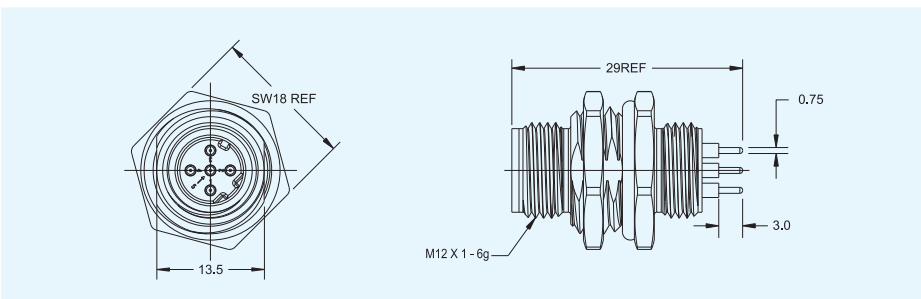
part number

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)

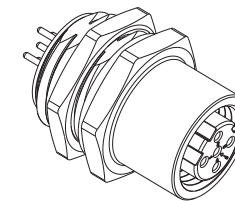


### RECEPTACLE REAL LOCK FEMALE PCB TYPE

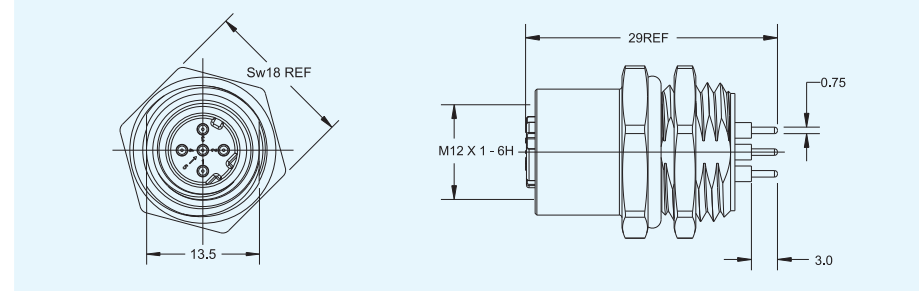
part number

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)

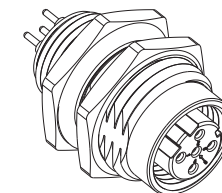


### RECEPTACLE FRONT LOCK FEMALE PCB TYPE

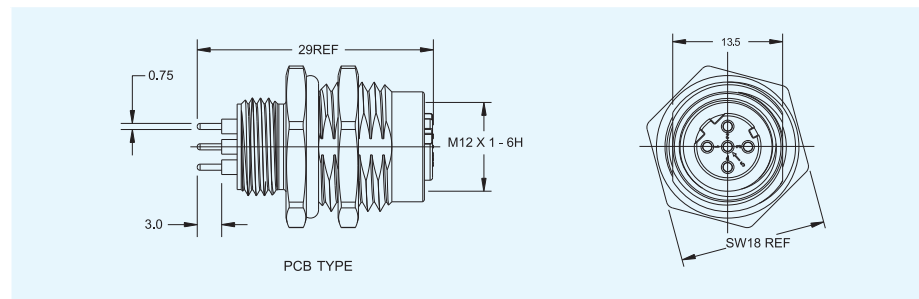
part number

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

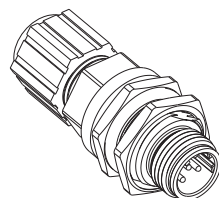
part number

CJE12RST\_PW\_FPCG

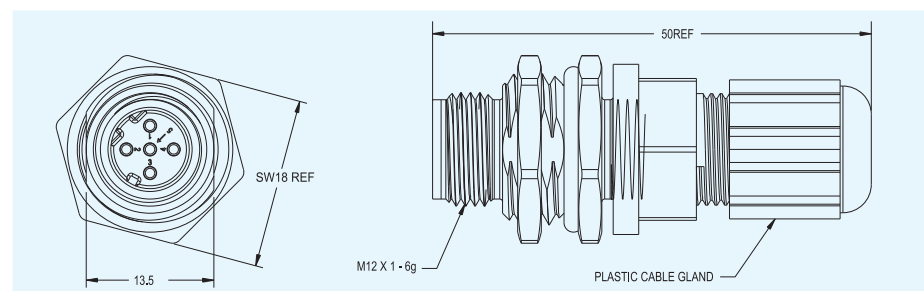
Blank (Gold) ,2,3,4 type contact available

A,B,C,D,P code available

3,4,5,8 position available



### DIMENSIONS (Millimeters)



### RECEPTACLE FRONT LOCK FEMALE SOLDER WITH PLASTIC CABLE GLAND

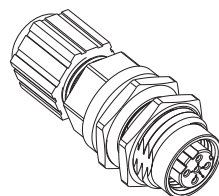
part number

CJE12RST\_SW\_FPCG

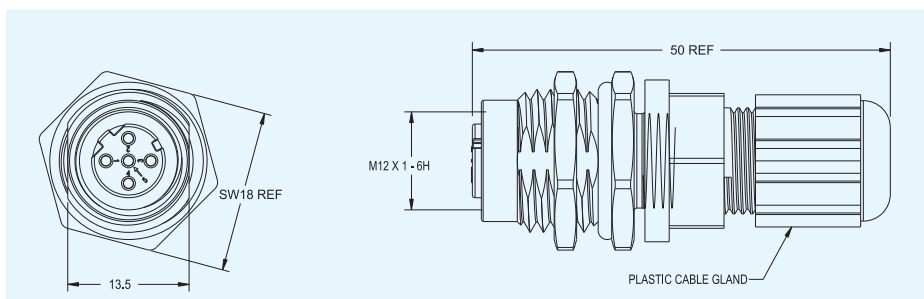
Blank (Gold) ,2,3,4 type contact available

A,B,C,D,P code available

3,4,5,8 position available



### DIMENSIONS (Millimeters)



### RECEPTACLE FRONT LOCK MALE SOLDER WITH METAL CABLE GLAND

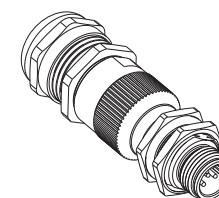
part number

CJE12RST\_PW\_FMCG

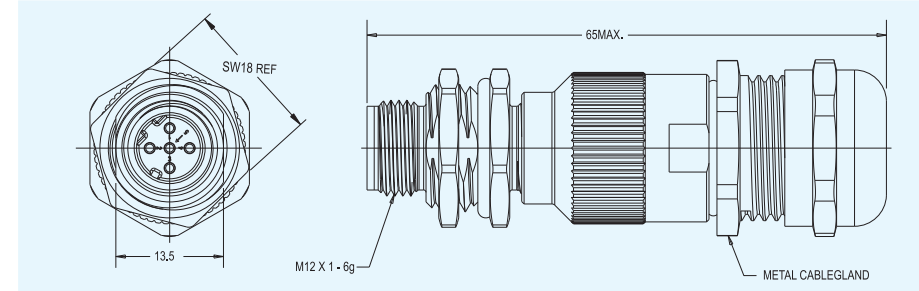
Blank (Gold) ,2,3,4 type contact available

A,B,C,D,P code available

3,4,5,8 position available



### DIMENSIONS (Millimeters)



### RECEPTACLE FRONT LOCK FEMALE SOLDER WITH METAL CABLE GLAND

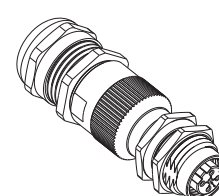
part number

CJE12RST\_SW\_FMCG

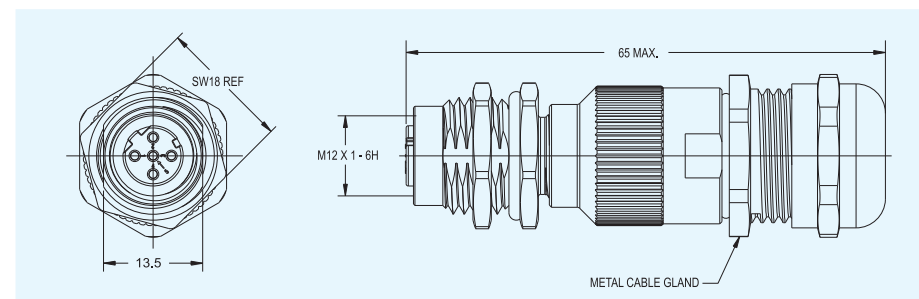
Blank (Gold) ,2,3,4 type contact available

A,B,C,D,P code available

3,4,5,8 position available



### DIMENSIONS (Millimeters)



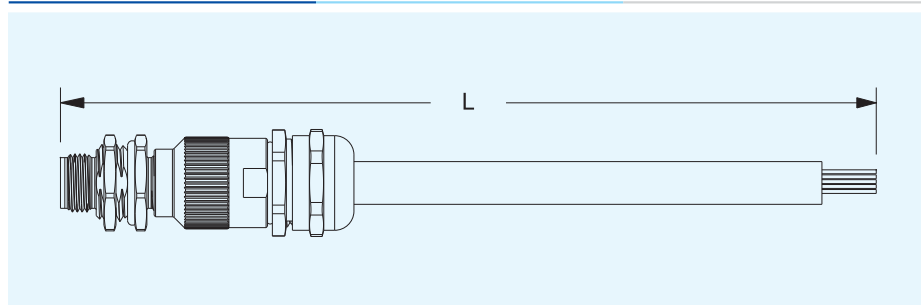
### RECEPTACLE FRONT LOCK MALE WITH METAL CABLE GLAND & CABLE ASSEMBLY

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)



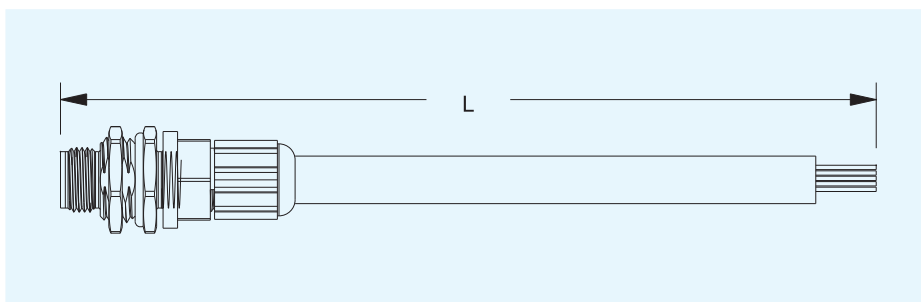
### RECEPTACLE FRONT LOCK MALE WITH PLASTIC CABLE GLAND & CABLE ASSEMBLY

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

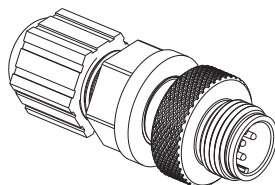
part number

CJE12CPST\_PW\_PCG

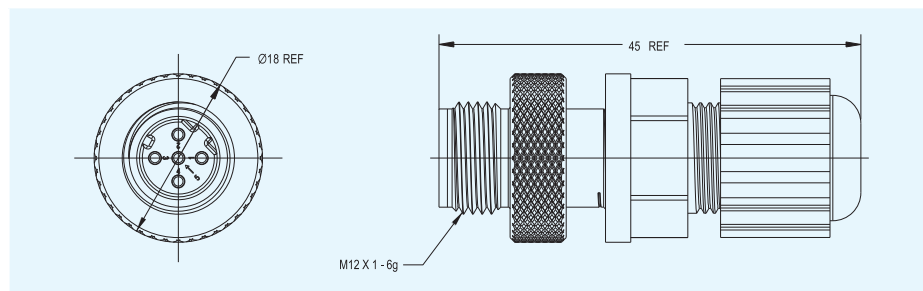
Blank (Gold) ,2,3,4 type contact available

A,B,C,D,P code available

3,4,5,8 position available



### DIMENSIONS (Millimeters)



### PLUG RIGHT ANGLE MALE WITH PLASTIC CABLE GLAND

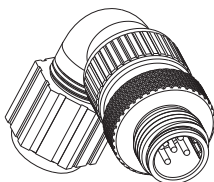
part number

CJE12CPRA\_PW\_PCG

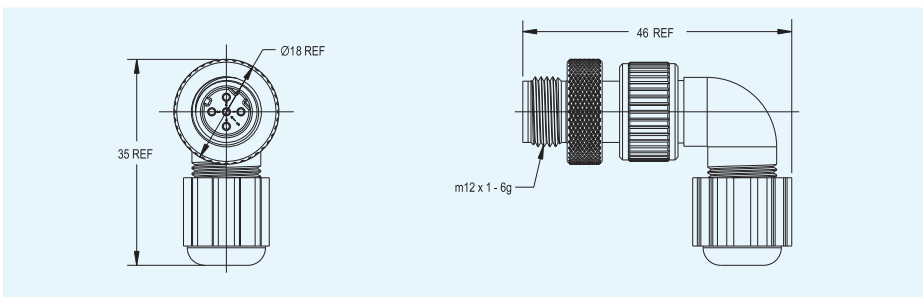
Blank (Gold) ,2,3,4 type contact available

A,B,C,D,P code available

3,4,5,8 position available



### DIMENSIONS (Millimeters)



### PLUG STRAIGHT FEMALE WITH PLASTIC CABLE GLAND

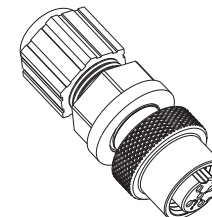
part number

CJE12CPST\_SW\_PCG

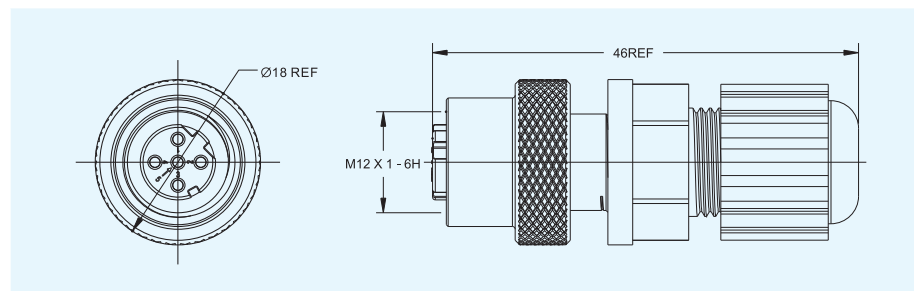
Blank (Gold) ,2,3,4 type contact available

A,B,C,D,P code available

3,4,5,8 position available



### DIMENSIONS (Millimeters)



### PLUG RIGHT ANGLE FEMALE WITH PLASTIC CABLE GLAND

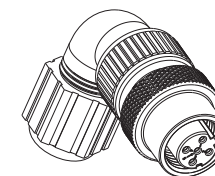
part number

CJE12CPRA\_SW\_PCG

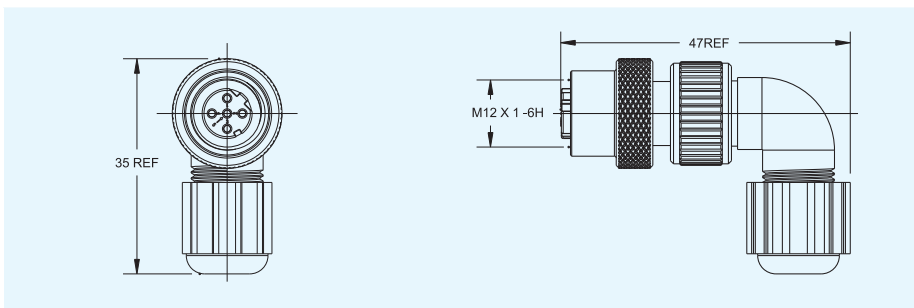
Blank (Gold) ,2,3,4 type contact available

A,B,C,D,P code available

3,4,5,8 position available



### DIMENSIONS (Millimeters)

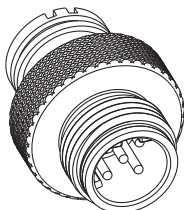


### PLUG MALE

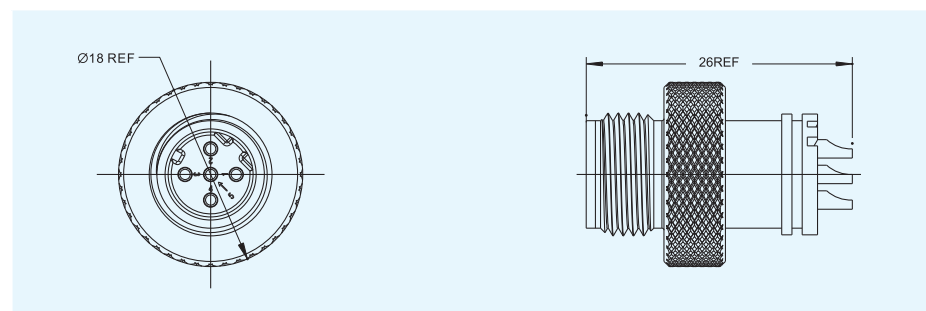
part number

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)

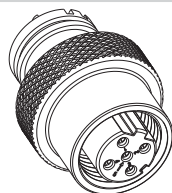


### PLUG FEMALE

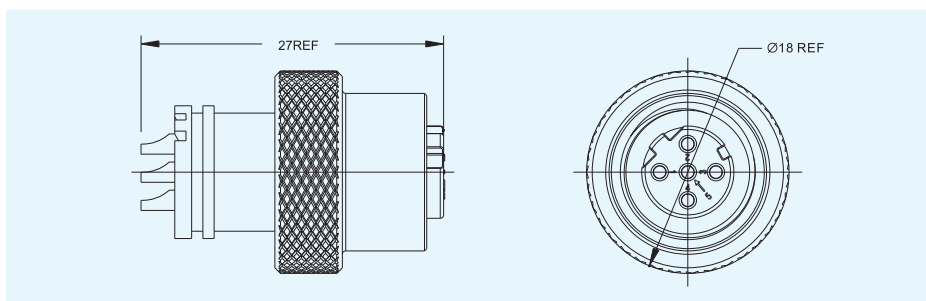
part number

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)



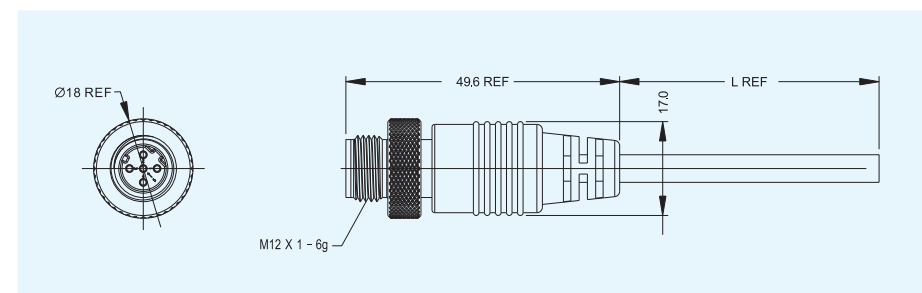
### PLUG STRAIGHT MALE OVERMOLDING CABLE ASSEMBLY

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)



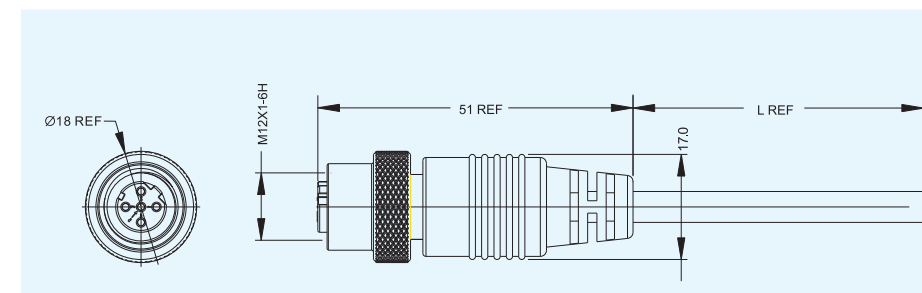
### PLUG STRAIGHT FEMALE OVERMOLDING CABLE ASSEMBLY

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)

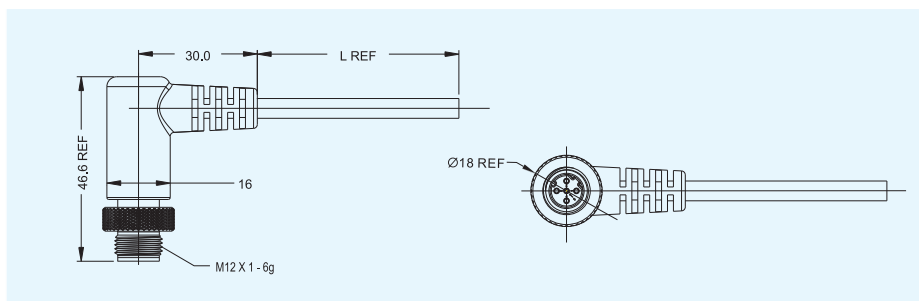


### PLUG RIGHT ANGLE MALE OVERMOLDING CABLE ASSEMBLY

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)

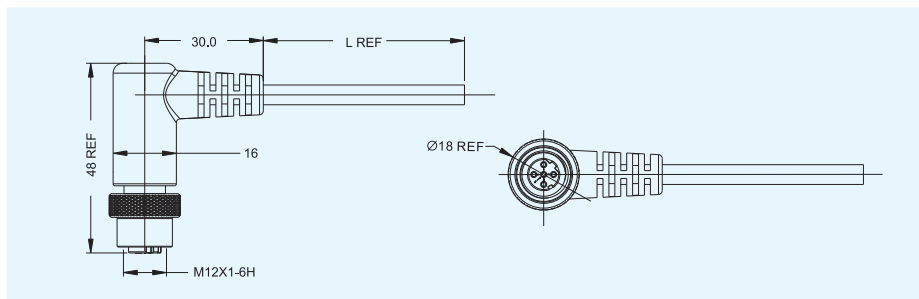


### PLUG RIGHT ANGLE FEMALE OVERMOLDING CABLE ASSEMBLY

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)

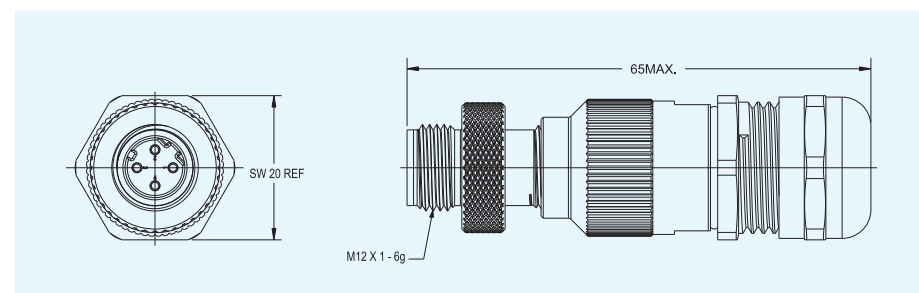


### PLUG STRAIGHT MALE WITH METAL CABLE GLAND TYPE

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)

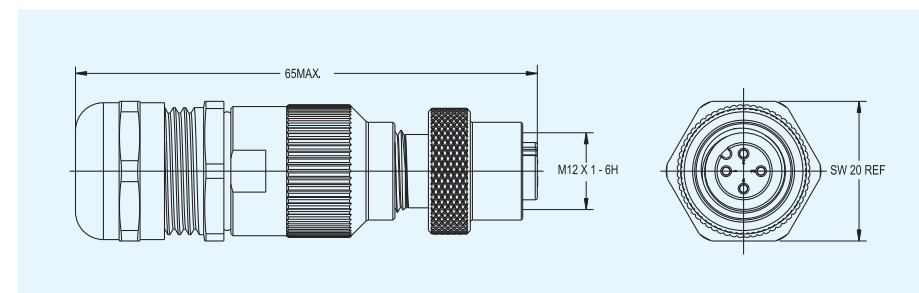


### PLUG STRAIGHT FEMALE WITH METAL CABLE GLAND TYPE

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)

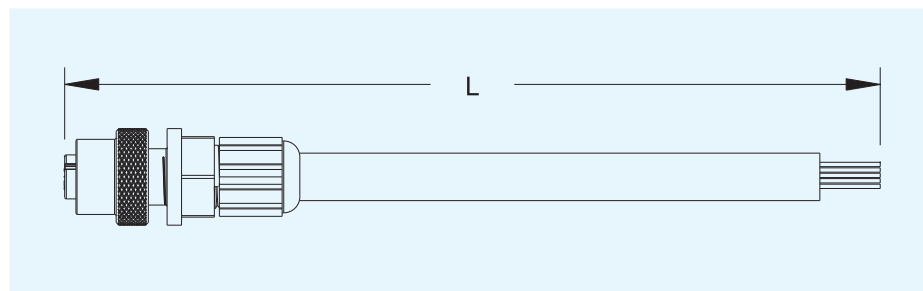


### PLUG STRAIGHT FEMALE WITH PLASTIC CABLE GLAND & CABLE ASSEMBLY

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)

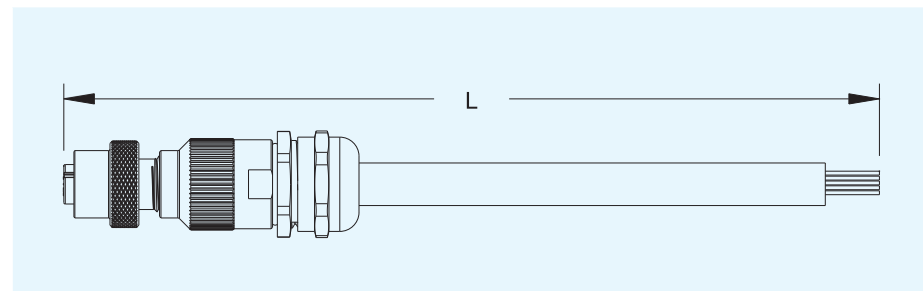


### PLUG STRAIGHT FEMALE WITH METAL CABLE GLAND & CABLE ASSEMBLY

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:

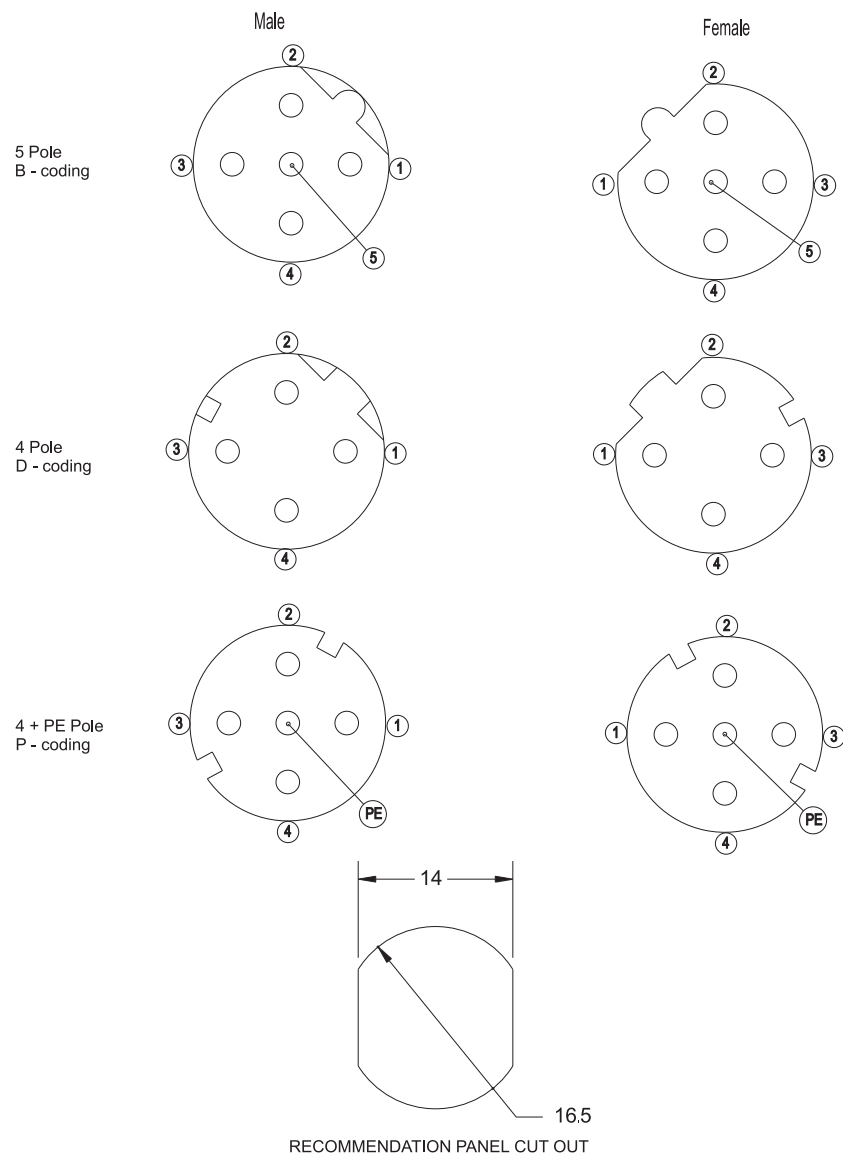
- SAE J 2839 Compliant
- IP 67 & IP 69 K Compliant
- Backward compatible with IEC 61076-2-101 (M12) with higher environmental rating
- Provisions for overall cable shield or drain wire to the connector plug housing
- Connection resistance – maximum millivolt drop of 50 millivolts



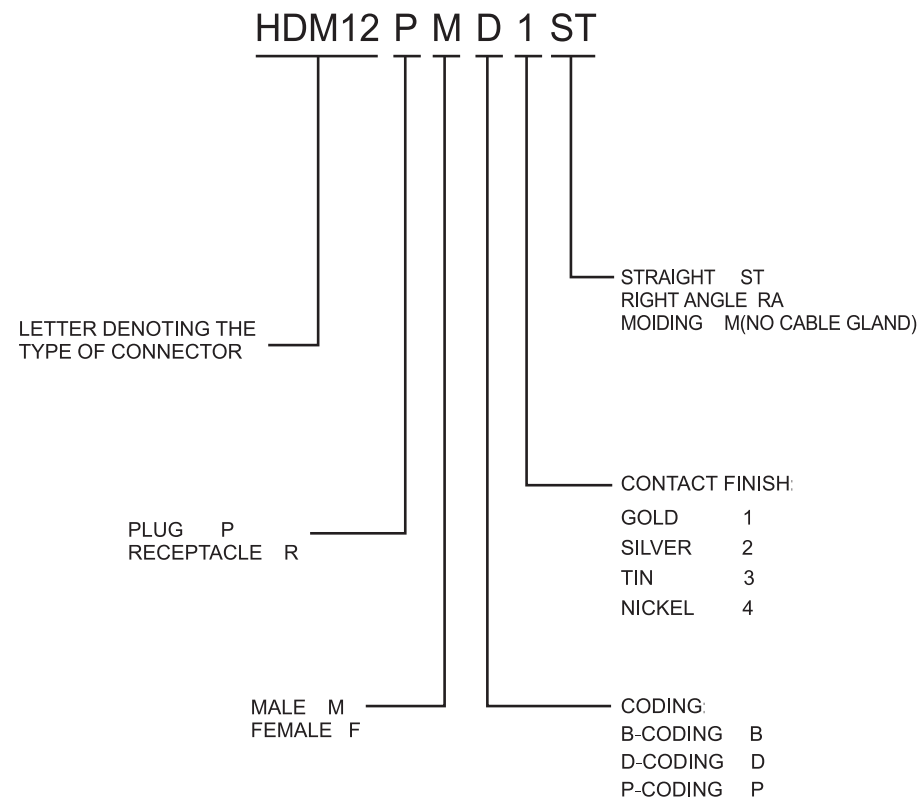
|                                 |                                                 |                      |
|---------------------------------|-------------------------------------------------|----------------------|
| Operating Voltage               | 5 pin - 60V AC/DC<br>4 pin - 250V AC/DC         | IEC 60664            |
| Current Rating                  | 4A MAX.                                         | IEC 60512 TEST 5B    |
| Tempature 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<br>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





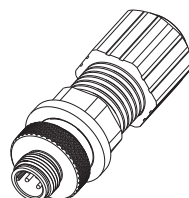
### PLUG STRAIGHT MALE

part number

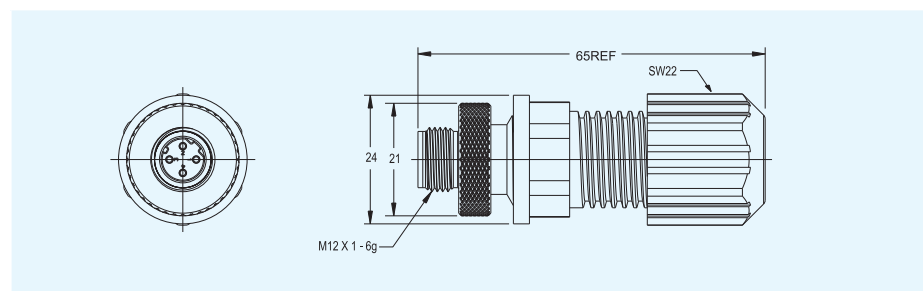
HDM12PM-ST

1,2,3,4 type contact available

B,D,P, code available



### DIMENSIONS (Millimeters)



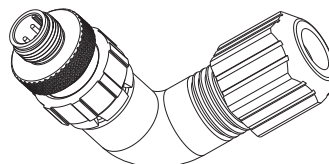
### PLUG RIGHT ANGLE MALE

part number

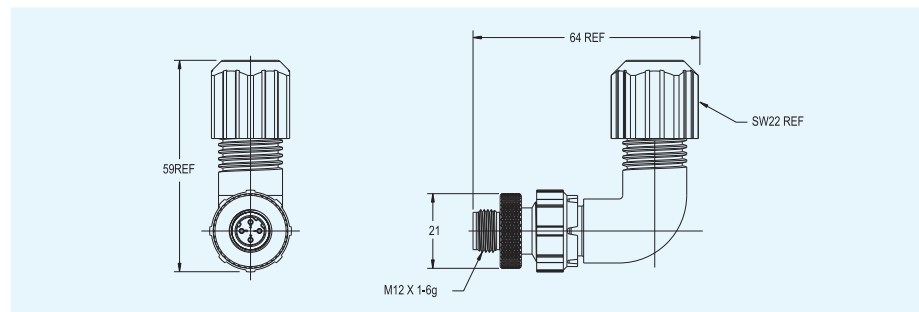
HDM12PM-RA

1,2,3,4 type contact available

B,D,P, code available



### DIMENSIONS (Millimeters)



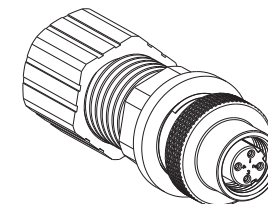
### PLUG STRAIGHT FEMALE

part number

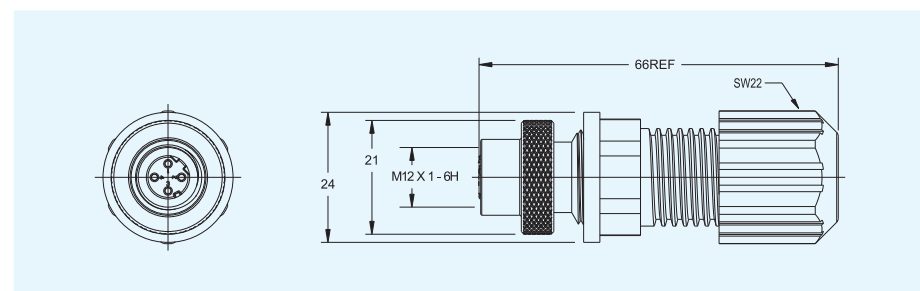
HDM12PF-ST

1,2,3,4 type contact available

B,D,P, code available



### DIMENSIONS (Millimeters)



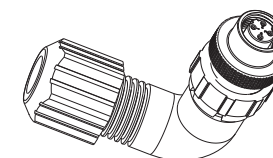
### PLUG RIGHT ANGLE FEMALE

part number

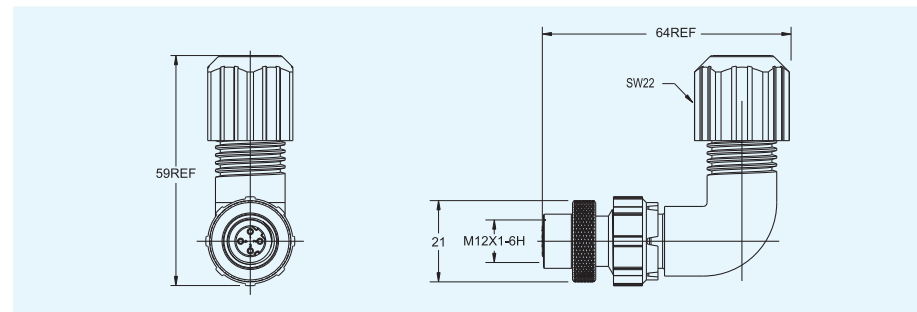
HDM12PF-RA

1,2,3,4 type contact available

B,D,P, code available



### DIMENSIONS (Millimeters)



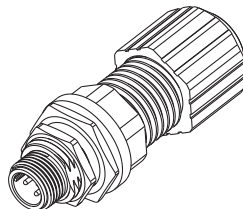
### RECEPTACLE STRAIGHT MALE

part number

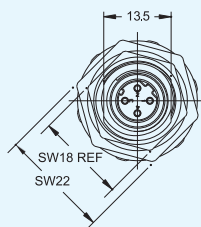
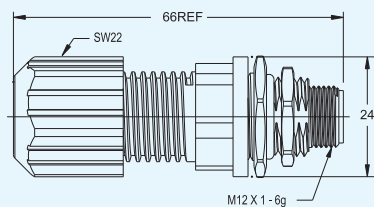
HDM12RM-ST

1,2,3,4 type contact available

B,D,P, code available



### DIMENSIONS (Millimeters)



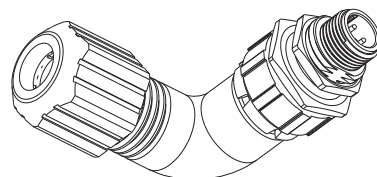
### RECEPTACLE RIGHT ANGLE MALE

part number

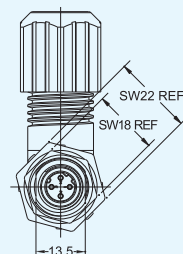
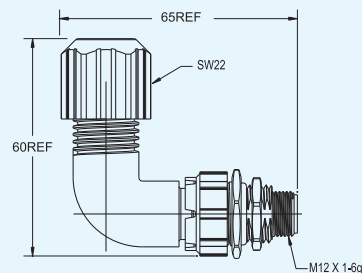
HDM12RM-RA

1,2,3,4 type contact available

B,D,P, code available



### DIMENSIONS (Millimeters)



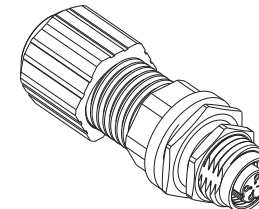
### RECEPTACLE STRAIGHT FEMALE

part number

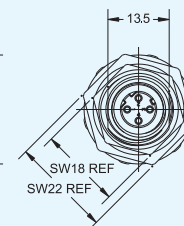
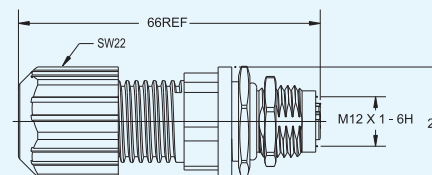
HDM12RF-ST

1,2,3,4 type contact available

B,D,P, code available



### DIMENSIONS (Millimeters)



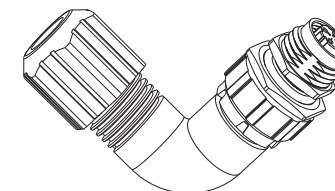
### RECEPTACLE RIGHT ANGLE FEMALE

part number

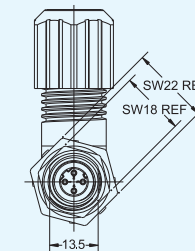
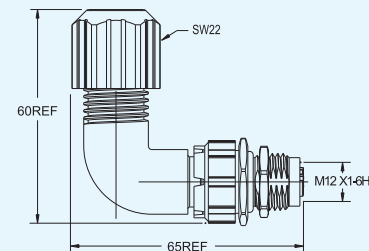
HDM12PF-RA

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

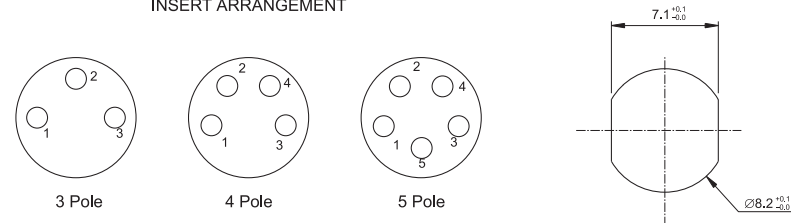
#### Materials:

- 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:

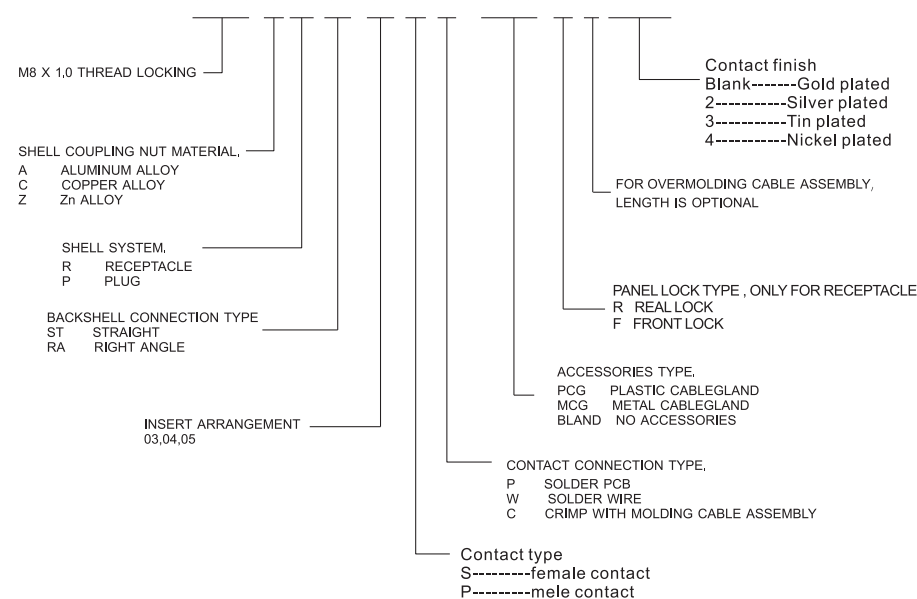
- Material: UL certified PVC or customer requestment
- Cable size: 22AWG-20AWG, 3C, 4C, 5C
- Current rating: 4A
- Voltage rating: 60V AC/DC
- Shielded/unshielded available.
- Heavy-duty application in harsh environments
- Highly resistant against abraion
- Good resistance against oil, lubricants, and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

INSERT ARRANGEMENT



RECOMMENDATION PANELCUT OUT

### CJE8 C R ST 04 S W PCG R L Blank

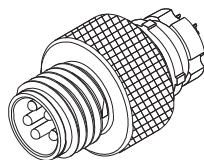


### PLUG STRAIGHT MALE CABLE ASSEMBLY

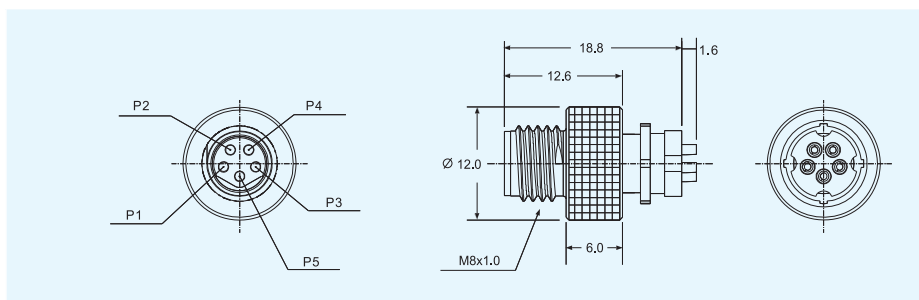
part number

CJE8CPST\_PW

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



### DIMENSIONS (Millimeters)

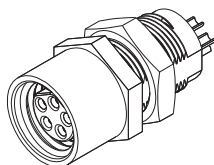


### RECEPTACLE REAL LOCK FEMALE SOLDER TYPE

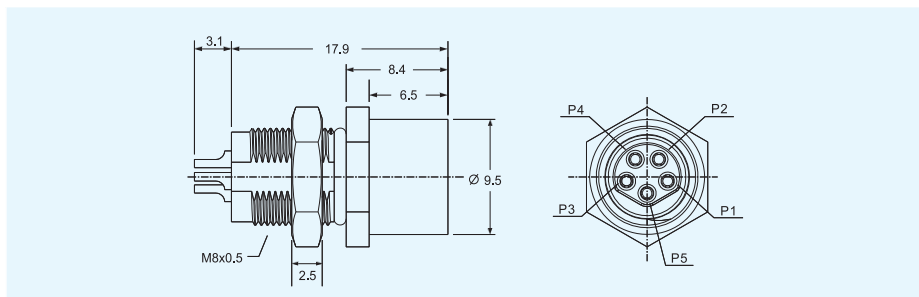
part number

CJE8CRST\_SWR

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



### DIMENSIONS (Millimeters)



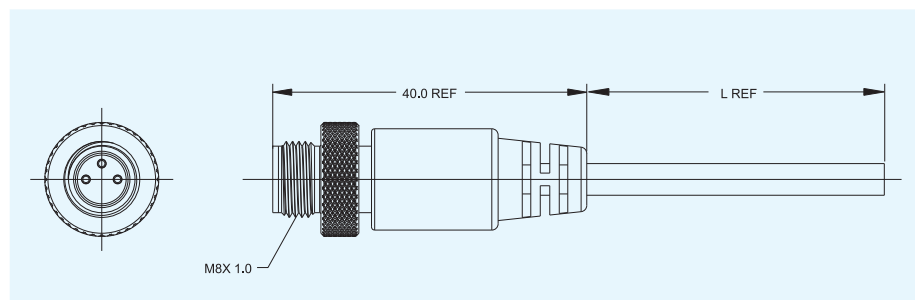
### PLUG STRAIGHT MALE OVERMOLDING CABLE ASSEMBLY

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)



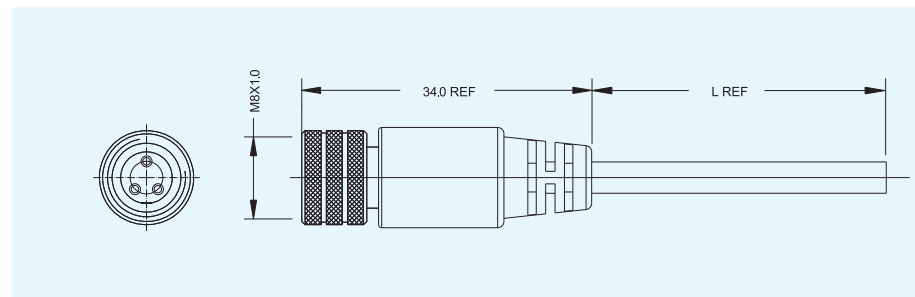
### PLUG STRAIGHT FEMALE OVERMOLDING CABLE ASSEMBLY

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

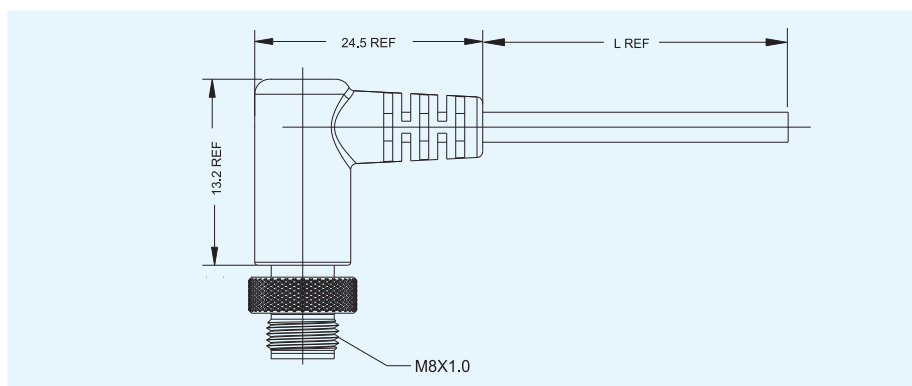
### DIMENSIONS (Millimeters)



### PLUG RIGHT ANGLE MALE OVERMOLDING CABLE ASSEMBLY

part number  
CJE8CPRA\_P L

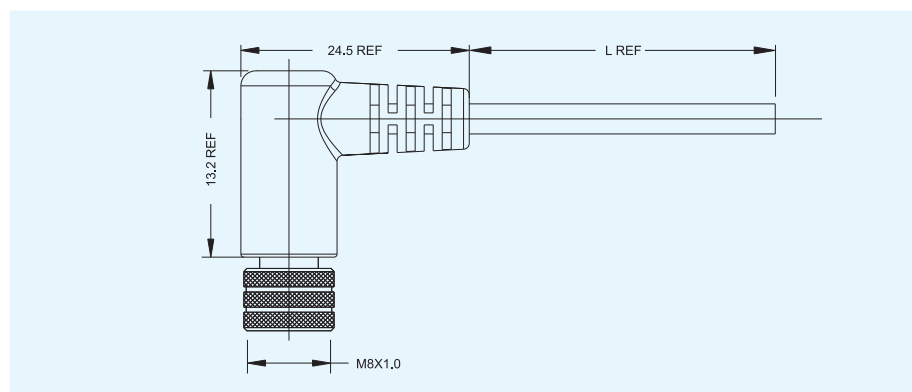
- Blank (Gold) ,2,3,4 type contact available
- Solder wire(W)/crimp(C)type available
- 3,4,5 position available



### 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.



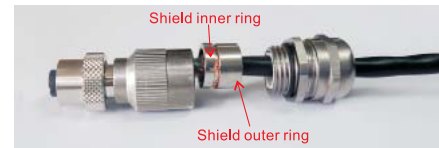
- Strip insulation 5mm, then solder conductor to connector contact cup. Covered the joint with tube.



- 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.

