



Product Overview

- 8-pin X-Code M12 male and M12 female shielded field wireable connectors
- Fully shielded and suitable for up to Ethernet Category 6a applications
- Suitable for 22 AWG to 27 AWG, and 5.5 mm to 9 mm cable diameter

Models

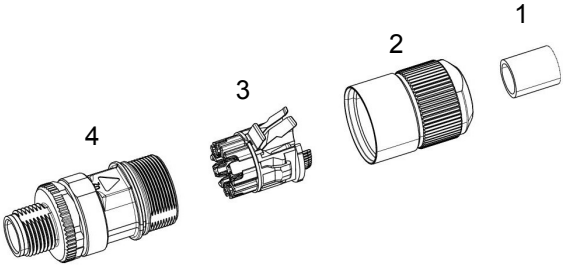
All measurements are listed in millimeters [inches], unless noted otherwise. The measurements provided are subject to change.

| Model         | Dimensions | Gender | Pinout | Wiring and Pinout Key   |
|---------------|------------|--------|--------|---|
| BFW-M12XF8-9X |            | Female |        | <div>1. White-orange</div> <div>2. Orange</div> <div>3. White-green</div> <div>4. Green</div> <div>5. White-brown</div> <div>6. Brown</div> <div>7. White-blue</div> <div>8. Blue</div> <div>Shield is on housing</div> |
| BFW-M12XM8-9X |            | Male   |        |   |

Features

Male shown - female is functionally identical

1. Additional sealing for cable: Ø 5.5 mm to 7.5 mm
2. Pre-mounted pressing screw
3. Wire manager
4. Insert



Appropriate Applications and Limitations

The connector must not be connected or disconnected under load. Non-observance and improper use can result in personal injury.

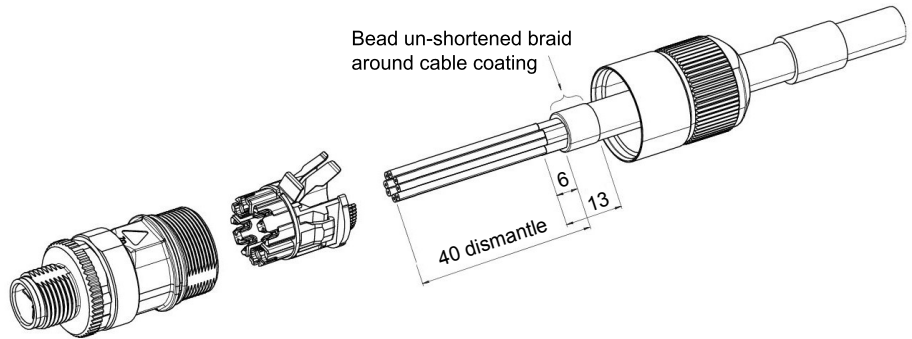
The connectors have been developed for applications in plant engineering, control, and electrical equipment construction. The user is responsible for checking whether the connectors can also be used in other areas of application.



# Assembly Instructions

All measurements are listed in millimeters, unless noted otherwise. The measurements provided are subject to change.

### Female Field Wireable Assembly



### Male Field Wireable Assembly

#### 1 Overall Assembly

Cable sealing assembled for cable Ø > 7.7-9 mm



#### 2 Slide cable gland onto cable.

Select additional cable sealing according to cable Ø.



#### 3 Strip cable to min. 40 mm and fold braid shield backwards.



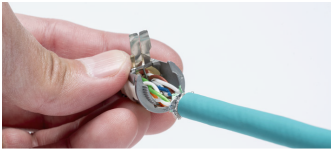
#### 4 Cable Ends

Cable End 1



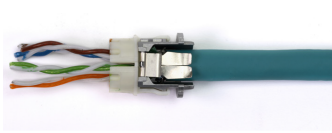
Cable End 2

#### 5 Insert pairs of wires into wire manager.

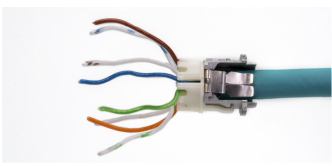


#### 6 Press down on shield cover.

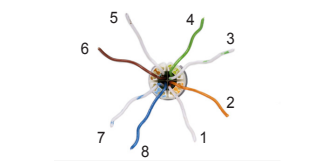
Braid shield must not protrude.



#### 7 Untwist pairs of wires.



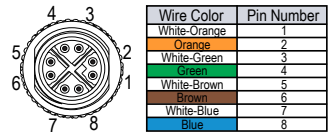
#### 8 Insert wires into wire manager.



#### 9 Cut wires flush, protruding max. 0.3 mm. Keep shield cross clear.



#### 10 Connection

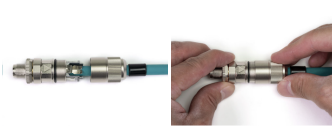


#### 11



#### 12 Locate plug body.

Pay attention to position.



#### 13 Insert wire manager into plug body.

Locate cable gland.



#### 14 Slide flush in cable sealing flush.



#### 15 Tighten cable gland with spanner 17 AF and 15 AF ( approx. 5 Nm) until stop.



**Finished** Male and female field wireable connectors are functionally identical.



# Specifications

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## Supply Voltage

50 V AC / 60 V DC

## Supply Current

0.5 A

## Data Transmission Rate

Ethernet CAT6A

## Connections

Integral 8-pin X-Code M12 female quick-disconnect connector with shield clamping, or integral 8-pin X-Code M12 female quick-disconnect connector with shield clamping, depending on model

## Termination

Insulation-displacement contact (IDC)

## Environmental Rating

IP67

## Construction

Housing material:

Female field wireable: Nickel-plated brass or nickel-plated die-cast zinc

Male field wireable: Nickel-plated die-cast zinc

Contact material:

Female field wireable: Brass

Male field wireable: Bronze

Contact body material: Polyamide nylon

Contact plating: Gold

Locking material: Nickel-plated die-cast zinc

## Connection Cross-Section

AWG 27-22

## Cable Outlet

5.5 mm to 9 mm

## Operating Temperature

−40 °C to +85 °C (−40 °F to +185 °F)

## Mechanical Operation

> 100 mating cycles

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