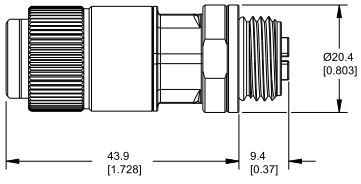
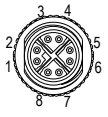
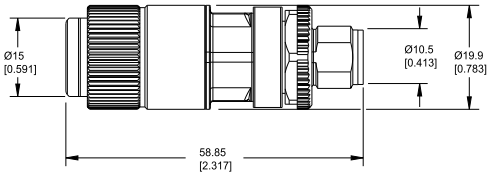
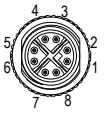
Product Overview

- 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

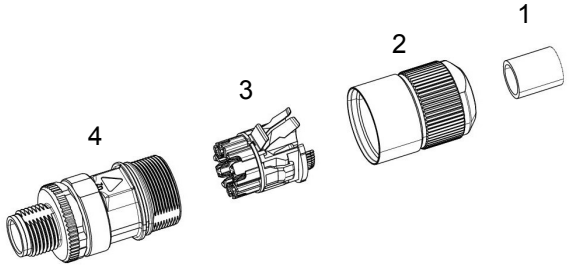
Models

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		1. White-orange 2. Orange 3. White-green 4. Green 5. White-brown 6. Brown 7. White-blue 8. Blue Shield is on housing
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.

Original Instructions
02-Sep-25

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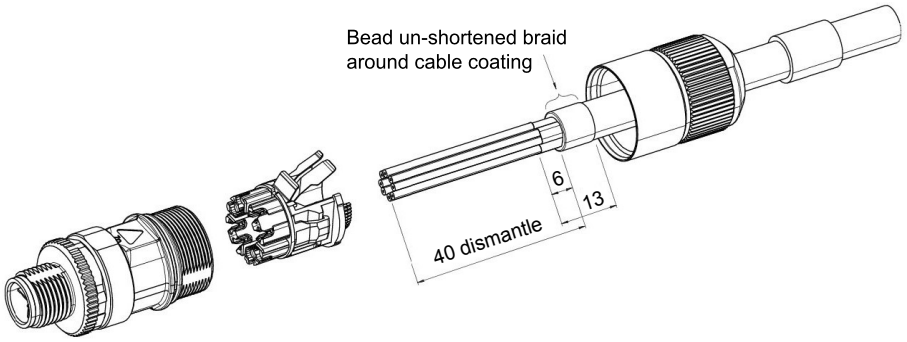
248711
p/n: 248711 Rev. B

ПРОМЭЛЕКТРОНИКА/ sales@prom-elec.com

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



Cable sealings for:

Cable Ø 5.5-6.7 mm

Cable Ø > 6.7-7.7 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.



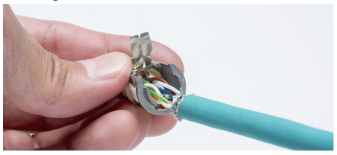
4 Cable Ends

Cable End 1



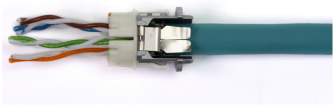
Cable End 2

5 Insert pairs of wires into wire manager.

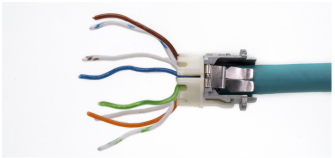


6 Press down on shield cover.

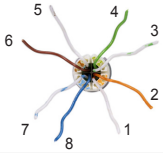
Braid shield must not protrude.



7 Untwist pairs of wires.

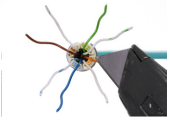


8 Insert wires into wire manager.



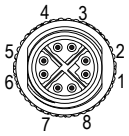
9 Cut wires flush, protruding max. 0.3 mm.

Keep shield cross clear.



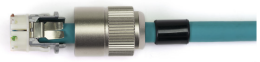


10 Connection



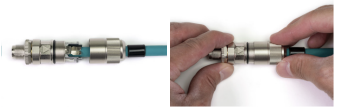
Wire Color	Pin Number
White-Orange	1
Orange	2
White-Green	3
Green	4
White-Brown	5
Brown	6
White-Blue	7
Blue	8

11



12 Locate plug body.

Pay attention to position.



13 Insert wire manager into plug body.

Locate cable gland.



14 Slide fluch 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.



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Specifications

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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