

# Assembly Instruction



## IDC Connection (fast connection technology)

### Model No.

#### ● Plug



- For EtherNet/IP™, EtherCAT and PROFINET
- PCA-1446553

### Preparation

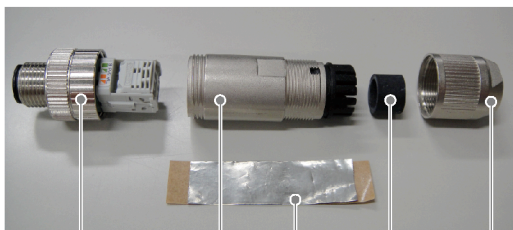
- Strippers for cable sheath  
WIREFOX-D 40 (Phoenix Contact No.1212161) recommended.
- Cutters for cable shield (small)

### Precaution

- All specified lengths are for guidance only and can vary depending on the type of cable.
- The connector can be used for cables with an outside diameter of 4 to 8 mm and a conductor cross-section of AWG 26 to 22.
- The connector can be reconnected up to 10 times.  
The connector can only be reconnected using conductors of the same size or larger.  
For example, if the connector has been used for AWG 26 wire, then it can be re-used for AWG 26 and larger. It will no longer be suitable for smaller conductors.

### Construction

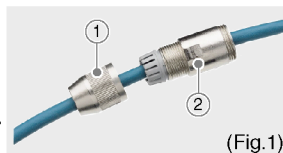
Please check contents.



Male insert    Housing    Shield foil    Gasket    Pressure nut

### Assembly

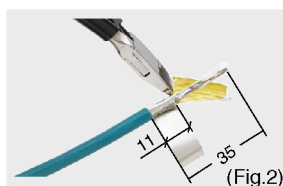
- Push the pressure nut ①, gasket and housing ② over the cable. (Fig.1)



- Strip back the cable sheath 35 mm. Then trim the braided shield to a length of approx. 11 mm. (Fig.2).

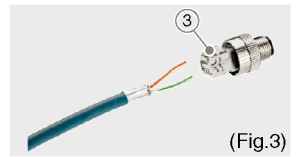
\*: When removing the insulation, do not damage the wires.

Pull the shielding foil away from the paper and wrap the foil around the braided shield to secure it, to provide good shielding (Fig.2)



### Assembly

- Unlock the cover of the terminal block ③.

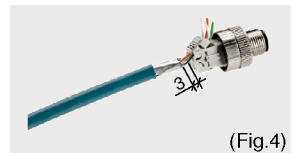


- Guide the individual wires through the feed holes in the cover. (Fig.4)

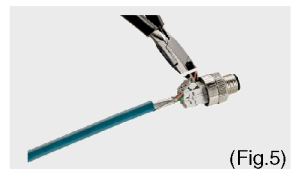
\*: Pay attention to the correct colour sequence when populating the cable ducts and make sure that there is only one wire per chamber.

The wire allocation can be found in the connection table.

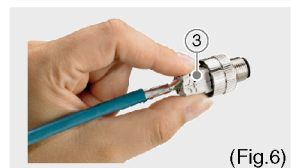
The distance between the connection block and the braided shield must be approximately 3 mm. (Fig.4)



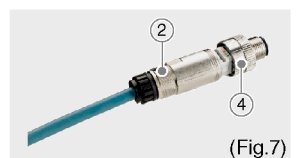
- Cut the protruding wire ends off flush. (Fig.5)



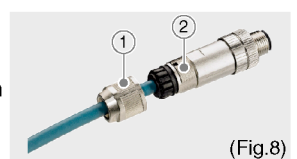
- Contact the wires by pressing the cover on the terminal block ③ against the lower stop. (Fig.6)



- Push the housing ② up to the male insert ④. Hold this tightly, while screwing the male insert ④ to the housing. (Fig.7)



- Screw the pressure nut ① tightly onto the housing. A WAF13 and WAF16 ring wrench can be used. (Fig.8)  
Tightening torque: 2.7 to 3.3 Nm



Ensure the connector is securely tightened.

### Connection table

PIN	Wire colour	Signal
1	YE=yellow or OGWH=orange/white	TD+
2	WH=white or GNWH=green/white	RD+
3	OG=orange	TD-
4	BU=blue or GN=green	RD-

### Application Notes

- Do not use the connector for anything other than its intended purpose.
- Do not connect or disconnect this connector when power is on.
- Operation using wet hands can cause an electric shock.
- Do not attempt to repair the connector.

**SMC Corporation**

URL <http://www.smcworld.com>

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