

# Installation instructions for QUICKON connection system



## Installation instructions

### Conductor connection

Note the following work steps in particular when connecting the cable:

- Remove the insulation from the cable sheath over a length of around 15 mm (Fig. 1) and push the coupling ring (1), crown (2) and rubber seal (3) onto the cable.

- Push the rubber seal up to the edge of the insulation and then the crown onto the rubber seal. Then take the appropriate measures to relieve the strain on the cable (Fig. 2).

- Insert the ends of the wires into the cutout of the splicing ring (Fig. 3). The individual cutouts of the splicing ring are marked with numbers (1, 2, etc.) to ensure that the wires are allocated without any mistakes.

- Cut off the protruding ends of the wires.

Ensure that the ends of the wires are closed off with the splicing ring, they must not be allowed to protrude more than 3 mm, but may not be too short either.

- Plug the connected cable into the QUICKON contact holder (4). Rotate the cable with the splicing ring until the coding protrusions fit exactly into the corresponding guides (Fig. 4).

- Close the screw connection by turning the coupling ring to tighten it. This presses the ends of the wires into the cutting clamps that cut the cable insulation and make the electrical contact.

### Undoing the cable

1. Open the screw connection
2. Remove the cable

- the cable can be released from the clamping point by pulling on the cable,

- Remaining bits of insulation must be removed before connecting again.

Requirements for the cables  
In the case of the »cable-unit« connection its reliability is calibrated with QUICKON if the conditions stated in the technical data for the cable and the tightening torques are complied with.

Flexible cables with cores that are insulated with PVC and PE can be used.

### Note

- A connection can be made again up to 10 times with the same contact system. Note that if the cable is connected several times the core section that had been used for the contacts has already been cut back. The same core cross-section must be processed when using a new cable. Ensure when carrying out this procedure that a gastight contact point is produced again.

- The seal and crown may have to be renewed if the cable has already been connected several times.

Installation and disassembly may only be done when nothing is electrically live, and in any case should only be done by a trained electrician

Comply with the relevant regulations.

## Technical data

Measuring voltage	
M16 3-pole; M20 4-pole → 0.34 - 0.75 mm <sup>2</sup>	160 V AC <sup>1</sup> ) (III/3)
M20 2-pole; M20 3-pole; M25 4-pole → 0.34 - 0.75 mm <sup>2</sup>	250 V AC <sup>1</sup> ) (III/3)
Nominal current up to max. 40°C	M16 3-pole; M20 4-pole → 9A2) M20 2-pole; M20 3-pole; M25 4-pole → 17A <sup>2</sup> )
Protection class	IP 65 / IP 67
Temperature in use	-25°C - +100°C
metric connection thread (to the housing) (mm)	M16 3-pole → M16 x 1.5 M20 4-pole, M20 2-pole, M20 3-pole → M20 x 1.5 M25 4-pole → M25 x 1.5
Tightening torque for the coupling ring (Nm)	M16 3-pole; M20 4-pole; M20 2-pole; M20 3-pole → 2.5 M25 4-pole → 3.3
Tightening torque for the contact holder and locknut (Nm)	M16 3-pole; M20 4-pole; M20 2-pole; M20 3-pole → 3.75 M25 4-pole → 5
Cross-section of the core (mm <sup>2</sup> )	M16 3-pole; M20 4-pole → 0.34 - 0.75 M20 2-pole; M20 3-pole; M25 4-pole → 0.75 - 1.5
Core diameter incl. insulation (mm)	M16 3-pole; M20 4-pole → ≤ 2.5 M20 2-pole; M20 3-pole; M25 4-pole → ≤ 3
Smallest wire diameter of the cores (mm)	M16 3-pole; M20 4-pole → 0,34 mm <sup>2</sup> : 0,1 → 0.5 mm <sup>2</sup> : 0,15 → 0.75 mm <sup>2</sup> : 0,15 M20 4-pole, M20 2-pole, M20 3-pole → 0.2
Removing the insulation of the sheath	M16 3-pole; M20 4-pole; M20 2-pole; M20 3-pole; M25 4-pole → 15 mm ;
Diameter of the cable outer sheath (mm)	M16 3-pole → 4-6 M20 4-pole, M20 2-pole → 4-7.5 M20 3-pole → 5, 6-9 M25 4-pole → 7-10

