

**MQ12 male 90° / M8 female 90° A-cod.**

PUR 3x0.25 bk UL/CSA+drag ch. 1m

Male 90° – female 90°

MQ12 – M8

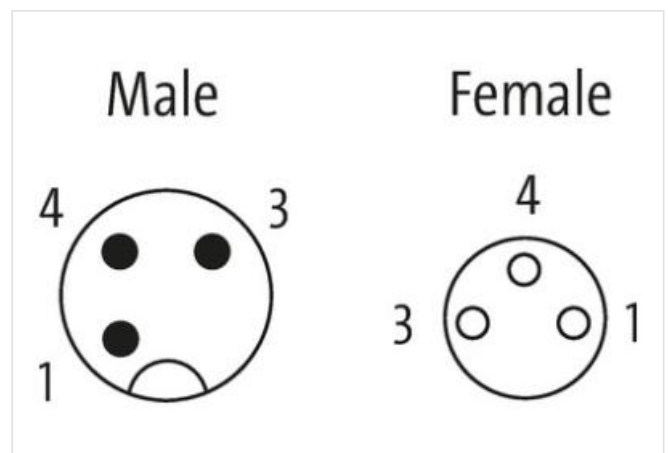
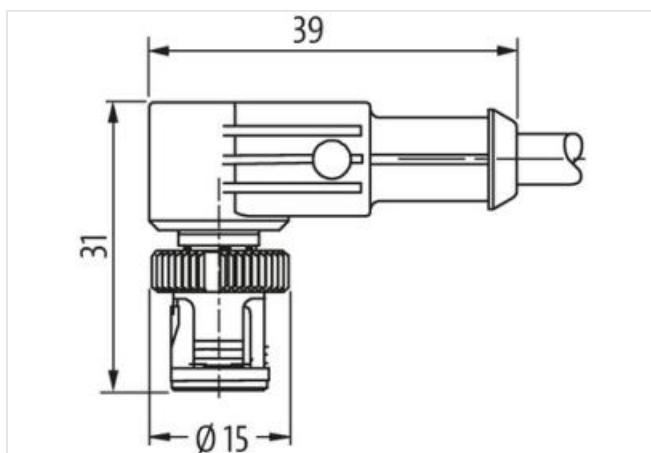
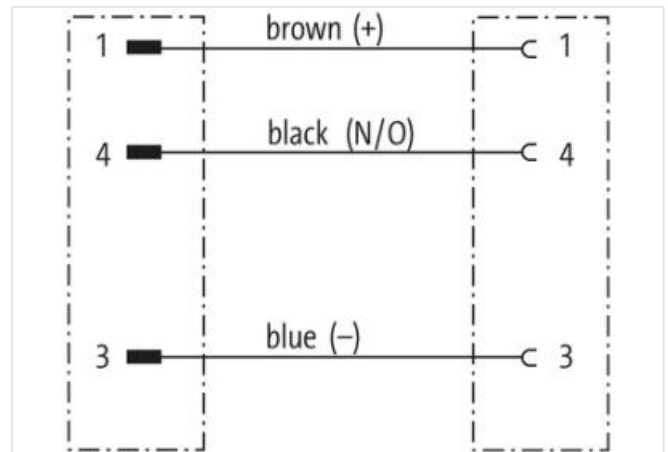
3-pole

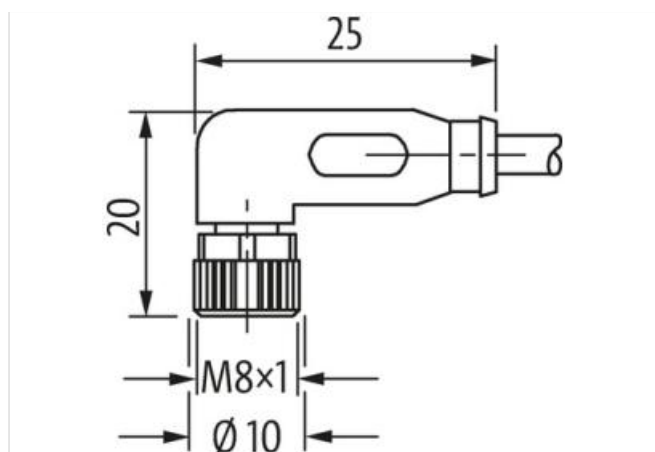
with cable sleeves

Further cable lengths on request.

Plastic housings with good resistance against chemicals and oils.

The resistance to aggressive media should be individually tested for your application. Further details on request.

[Link to Product](#)**Illustration**



Product may differ from Image

**Form**

Form 40681

**Technical Data**

|                                           |                                                                                                  |
|-------------------------------------------|--------------------------------------------------------------------------------------------------|
| Operating voltage                         | max. 60 V AC/DC                                                                                  |
| Rated surge voltage                       | 1.5 kV                                                                                           |
| Operating current per contact             | max. 4 A                                                                                         |
| No. of poles                              | 3                                                                                                |
| Material group                            | IEC 60664-1, category II                                                                         |
| Coding                                    | M12, A-coded                                                                                     |
| LED display                               | no                                                                                               |
| Locking of ports                          | Screw thread (M8×1 mm) recommended torque 0.4 Nm, self-securing; quick connection MQ12, 1/4 turn |
| Protection                                | IP65 and IP67 when plugged and screwed down (EN 60529)                                           |
| Material                                  | PUR                                                                                              |
| Locking material                          | M8 (zinc die casting, matte nickel plated); M12 (PA)                                             |
| suitable for corrugated tube (internal Ø) | M12 (10 mm); M8 (6.5 mm)                                                                         |
| Compression gland                         | M8 (SW9)                                                                                         |

**General data**

|                            |                                          |
|----------------------------|------------------------------------------|
| Standards                  | DIN EN 61076-2-104 (M8)                  |
| Mounting method            | inserted, tightened                      |
| Material (contact)         | Copper alloy                             |
| Material (contact surface) | Au                                       |
| Material (gasket)          | FKM                                      |
| Pollution Degree           | 3                                        |
| Temperature range          | -25...+85 °C, depending on cable quality |

**Cables**

|                                    |                                                   |
|------------------------------------|---------------------------------------------------|
| Cable identification               | 630                                               |
| Cable Type                         | 3 (PUR)                                           |
| Approval (cable)                   | cURus (AWM-Style 20549/10493); CE conform         |
| Cable weight [g/m]                 | 26,4 g                                            |
| Material (wire)                    | Cu wire, bare                                     |
| Resistor (core)                    | max. 79 Ω/km (20 °C)                              |
| Single wire Ø (core)               | 0.1 mm                                            |
| Construction (core)                | 32× 0.1 mm (multi-strand wire class 6)            |
| Diameter (core)                    | 3× 0.25 mm²                                       |
| AWG                                | similar to AWG 24                                 |
| Material (wire isolation)          | PP                                                |
| Material property (wire isolation) | CFC-, halogen-, cadmium-, silicone- and lead-free |
| Shore hardness (wire isolation)    | 70 ±5 D                                           |

The information in this brochure has been compiled with the utmost care.

Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2022-11-14

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|                                        |                                                                                                                                                        |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Wire-Ø incl. isolation                 | 1.25 mm ±5%                                                                                                                                            |
| Color/numbering of wires               | br, bk, bl                                                                                                                                             |
| Stranding combination                  | 3 wires twisted                                                                                                                                        |
| Shield                                 | no                                                                                                                                                     |
| Material (jacket)                      | PUR                                                                                                                                                    |
| Material property (jacket)             | CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistant |
| Shore hardness (jacket)                | 90 ±5 A                                                                                                                                                |
| Outer-Ø (jacket)                       | 4.1 mm ±5%                                                                                                                                             |
| Color (jacket)                         | black                                                                                                                                                  |
| chemical resistance                    | good resistance to oil, gasoline and chemicals (EN 60811-404)                                                                                          |
| thermal resistance                     | flame retardand UL 1581 Section 1090 (H), CSA FT2 / IEC 60332-2-2                                                                                      |
| Nominal voltage                        | 300 V AC                                                                                                                                               |
| Test voltage                           | 2500 V AC                                                                                                                                              |
| Current load capacity                  | to DIN VDE 0298-4                                                                                                                                      |
| Temperature range (fixed)              | -40...+80 °C, (+90 °C at max. 10 000 operating hours)                                                                                                  |
| Temperature range (mobile)             | -25...+80 °C, (+90 °C at max. 10 000 operating hours)                                                                                                  |
| Bend radius (fixed)                    | 5× outer Ø                                                                                                                                             |
| Bend radius (moving)                   | 10× outer Ø                                                                                                                                            |
| No. of bending cycles (C-track)        | max. 10 Mio. (25 °C)                                                                                                                                   |
| Travel speed (C-track)                 | max. 3 m/s                                                                                                                                             |
| Acceleration (C-track)                 | max. 10 m/s²                                                                                                                                           |
| Torsion stress                         | ±180°/m                                                                                                                                                |
| No. of torsion cycles                  | max. 2 Mio. (25 °C)                                                                                                                                    |
| Torsion speed                          | 35 cycles/min                                                                                                                                          |
|                                        |                                                                                                                                                        |
| Product article number of manufacturer | 7050-40681-6300100                                                                                                                                     |
| Cable length                           | 1 m                                                                                                                                                    |