

**M12 male 0° A-cod. / MSUD valve plug BI-11mm**

PUR 3x0.75 bk UL/CSA+drag ch. 6m

**MSUD**

Form BI (11 mm) – M12, male straight

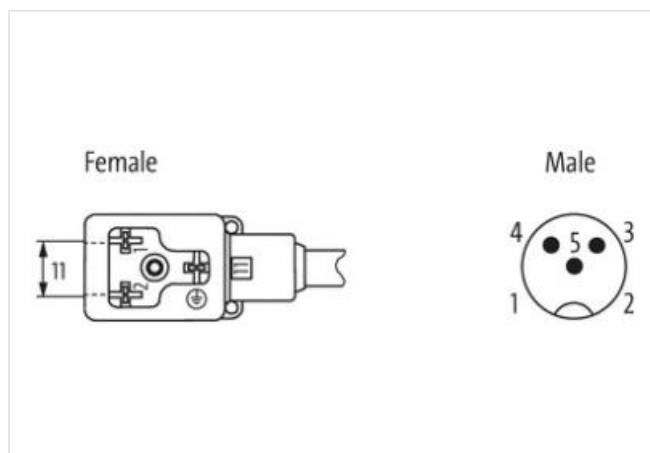
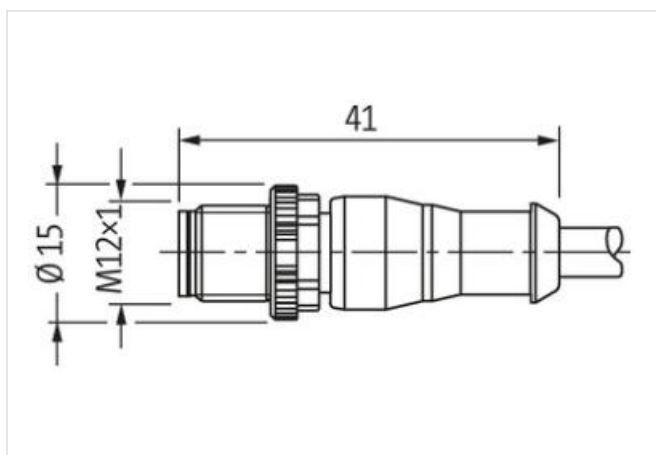
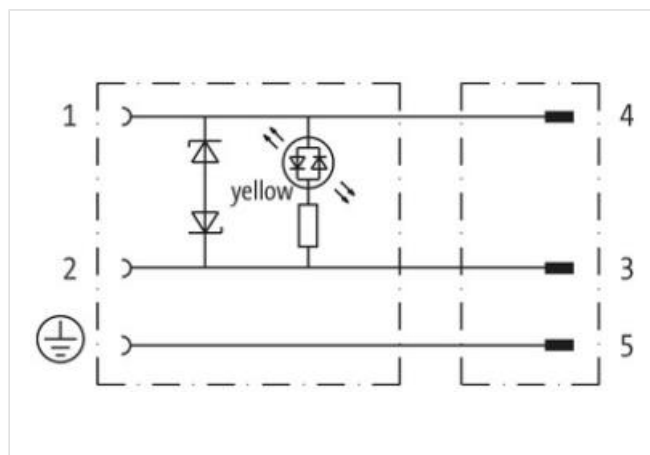
24 V AC  $\pm 20\%$  / DC  $\pm 25\%$ 

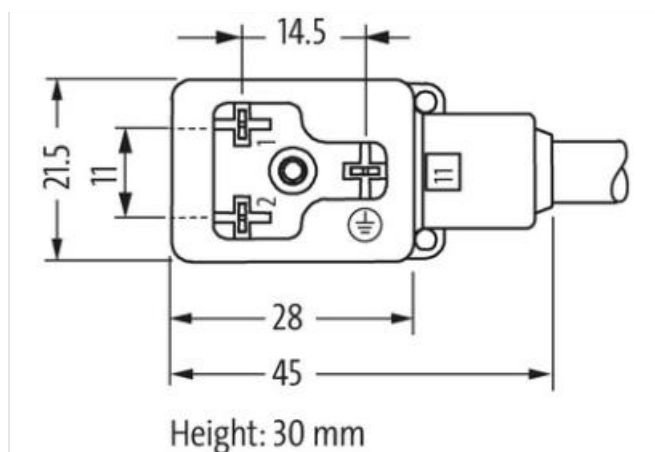
LED and suppression

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



\* only for products with UL/CSA approved cable

#### Form

Form 40961

#### Technical Data

|                               |  |
|-------------------------------|--|
| Operating voltage             | 24 V AC $\pm 20\%$ / DC $\pm 25\%$                   |
| Rated surge voltage           | 0.8 kV   |
| Operating current per contact | max. 4 A   |
| Switch off peak               | max. 55 V  |
| Locking of ports              | M3/M12 $\times$ 1 mm (recommended torque 0.4/0.6 Nm) |
| Protection                    | IP67 inserted and tightened (EN 60529)               |
| Housing                       | Black plastic (gray on request)                      |
| Switch off delay time         | max. 20 ms   |

#### General data

Temperature range -25...+85 °C, depending on cable quality

#### Cables

|                                     |   |
|-------------------------------------|---|
| Cable identification                | 636   |
| Cable Type                          | 3 (PUR)   |
| Approval (cable)                    | cURus (AWM-Style 20549/10493); CE conform         |
| Cable weight [g/m]                  | 56,1 g  |
| Material (wire)                     | Cu wire, bare                                     |
| Resistor (core)                     | max. 26 $\Omega$ /km (20 °C)                      |
| Single wire $\varnothing$ (core)    | 0.15 mm   |
| Construction (core)                 | 42 $\times$ 0.15 mm (multi-strand wire class 6)   |
| Diameter (core)                     | 3 $\times$ 0.75 mm <sup>2</sup>                   |
| AWG                                 | similar to AWG 18                                 |
| Material (wire isolation)           | PP  |
| Material property (wire isolation)  | CFC-, halogen-, cadmium-, silicone- and lead-free |
| Shore hardness (wire isolation)     | 70 $\pm$ 5 D                                      |
| Wire- $\varnothing$ incl. isolation | 1.85 mm $\pm$ 5%                                  |
| Color/numbering of wires            | bk numbered, gnye longitudinally striped          |
| 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)                       | 5.9 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/s <sup>2</sup>   |
| Torsion stress                         | ±180°/m  |
| No. of torsion cycles                  | max. 2 Mio. (25 °C)  |
| Torsion speed                          | 35 cycles/min  |
| Product article number of manufacturer | 7000-40961-6360600   |
| Cable length                           | 6 m  |