

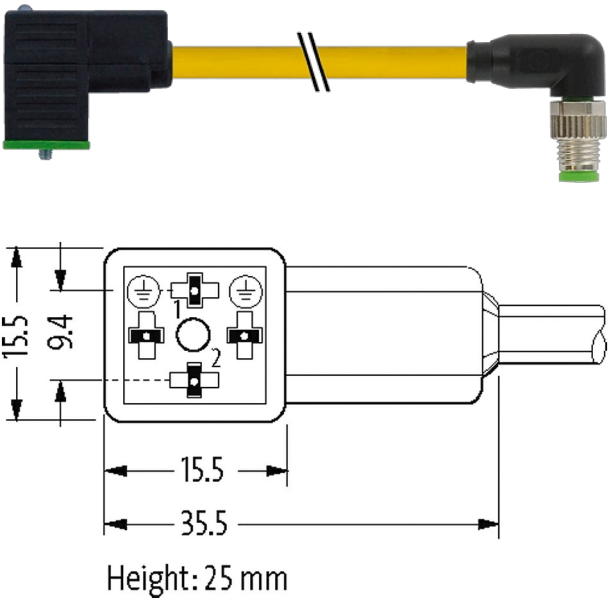
**M8 MALE 90° / MSUD VALVE PLUG 9.4 MM(SMALL)**

PUR 3X0.34 YELLOW, UL/CSA, drag ch 1m

MSUD  
Plastic housings with good resistance against chemicals and oils.  
Form CI (9.4 mm)  
Male M8  
90°  
24 V AC ±20% / DC ±25%  
4-pole  
Z-Diode + LED  
Art-No. 7005 - M8 Lite - (plastic hexagonal screw) on request  
Further cable lengths on request.

[Link to Product](#)

Illustration



Product may differ from Image

| Form                       |                                          |
|----------------------------|------------------------------------------|
| Form                       | 88491                                    |
| General data               |                                          |
| Standards                  | DIN EN 61076-2-104 (M8)                  |
| Mounting method            | inserted, tightened                      |
| Material (contact)         | Copper alloy                             |
| Material (contact surface) | MSUD (Ag); M8 (Au)                       |
| Material (gasket)          | PUR                                      |
| Pollution Degree           | 3                                        |
| Temperature range          | -25...+85 °C, depending on cable quality |
| Cables                     |                                          |
| No./diameter of wires      | 3 × 0.34 mm²                             |
| Wire isolation             | PP (br, bl, bk)                          |

C-track properties 10 Mio.

|                                    |                                                                                                                                                        |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Material (jacket)                  | PUR (UL/CSA)                                                                                                                                           |
| Outer Ø                            | 4.1 mm ±5%                                                                                                                                             |
| Bend radius (moving)               | 10× outer Ø                                                                                                                                            |
| Temperature range (fixed)          | -40...+80 °C                                                                                                                                           |
| Temperature range (mobile)         | -25...+80 °C                                                                                                                                           |
| Cable identification               | 033                                                                                                                                                    |
| Cable Type                         | 3 (PUR)                                                                                                                                                |
| Approval (cable)                   | cURus (AWM-Style 20549/10493); CE conform                                                                                                              |
| Cable weight [g/m]                 | 29,70                                                                                                                                                  |
| Material (wire)                    | Cu wire, bare                                                                                                                                          |
| Resistor (core)                    | max. 57 Ω/km (20 °C)                                                                                                                                   |
| Single wire Ø (core)               | 0.1 mm                                                                                                                                                 |
| Construction (core)                | 42× 0.1 mm (multi-strand wire class 6)                                                                                                                 |
| Diameter (core)                    | 3× 0.34 mm²                                                                                                                                            |
| AWG                                | similar to AWG 22                                                                                                                                      |
| Material (wire isolation)          | PP                                                                                                                                                     |
| Material property (wire isolation) | CFC-, halogen-, cadmium-, silicone- and lead-free                                                                                                      |
| Shore hardness (wire isolation)    | 70 ±5 D                                                                                                                                                |
| 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)                     | yellow                                                                                                                                                 |
| chemical resistance                | good resistance to oil, gasoline and chemicals (EN 60811-404)                                                                                          |
| thermal resistance                 | flame retardant UL 1581 VW1 / CSA FT1 / IEC 60332-1, 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)                                                                                                                                   |
| Traversing distance (C-track)      | max. 5 m (horizontal)                                                                                                                                  |
| 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                                                                                                                                          |
| Jacket Color                       | yellow                                                                                                                                                 |

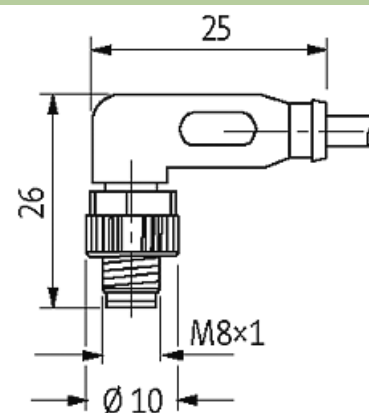
**Technical Data**

Operating voltage 24 V AC ±20% / DC ±25%

|                                           |                                                        |
|-------------------------------------------|--------------------------------------------------------|
| Rated surge voltage                       | 0.8 kV                                                 |
| Operating current per contact             | max. 4 A                                               |
| No. of poles                              | 4                                                      |
| Current consumption                       | 15 mA                                                  |
| Material group                            | IEC 60664-1, category I                                |
| Switch off peak                           | max. 55 V                                              |
| LED display                               | yellow                                                 |
| Locking of ports                          | M3/M8 (recommended torque 0.4 Nm)                      |
| Compression gland                         | M8 (SW9)                                               |
| Protection                                | IP65 and IP67 when plugged and screwed down (EN 60529) |
| Material                                  | MSUD (PBT); M8 (PUR)                                   |
| Locking material                          | Zinc die casting, matte nickel plated                  |
| suitable for corrugated tube (internal Ø) | 6.5 mm                                                 |
| Housing                                   | Black plastic (gray on request)                        |
| Additional suppressor                     | Diode/Z-Diode                                          |

**Commercial data**

|                       |               |
|-----------------------|---------------|
| country of origin     | CZ            |
| customs tariff number | 85444290      |
| EAN                   | 4048879118675 |
| eClass                | 27279218      |
| Packaging unit        | 1             |

**Sketch**

Product may differ from Image