

**M12 male 0° / M12 female 0° A-cod.**

PUR 12x0.25 gy UL/CSA+robot+drag ch. 8.5m

Male straight – female straight

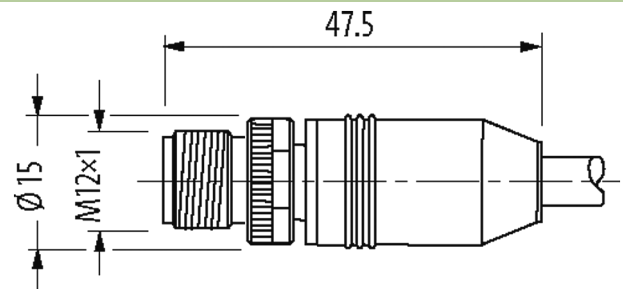
M12 – M12, 12-pole

Art-No. 7005 - M12 Lite - (plastic hexagonal screw) 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.

Further cable lengths on request.

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

|    |   |           |   |      |
|----|---|-----------|---|------|
| 1  | ■ | brown     | ↔ | C 1  |
| 2  | ■ | blue      | ↔ | C 2  |
| 3  | ■ | white     | ↔ | C 3  |
| 4  | ■ | green     | ↔ | C 4  |
| 5  | ■ | pink      | ↔ | C 5  |
| 6  | ■ | yellow    | ↔ | C 6  |
| 7  | ■ | black     | ↔ | C 7  |
| 8  | ■ | gray      | ↔ | C 8  |
| 9  | ■ | red       | ↔ | C 9  |
| 10 | ■ | violet    | ↔ | C 10 |
| 11 | ■ | gray/pink | ↔ | C 11 |
| 12 | ■ | red/blue  | ↔ | C 12 |

**Male****Female**

Product may differ from image

\* only for products with UL/CSA approved cable

**Form**

Form

53001

**Technical Data**

|                               |                                                                  |
|-------------------------------|------------------------------------------------------------------|
| Operating voltage             | max. 30 V AC/DC                                                  |
| Rated surge voltage           | 0.8 kV                                                           |
| Operating current per contact | max. 1.5 A                                                       |
| Locking of ports              | Screw thread (M12×1 mm) recommended torque 0.6 Nm, self-securing |
| Compression gland             | M12 (SW13)                                                       |
| Protection                    | IP65, IP66K, IP67 inserted and tightened (EN 60529)              |
| Locking material              | Zinc die casting, matte nickel plated                            |

#### General data

|                   |                                          |
|-------------------|------------------------------------------|
| Standards         | DIN EN 61076-2-101 (M12)                 |
| Temperature range | -25...+85 °C, depending on cable quality |

#### Cables

|                                    |                                                                                                                                                                         |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| No./diameter of wires              | 12× 0.25 mm <sup>2</sup>                                                                                                                                                |
| Wire isolation                     | PP (br, bl, wh, gn, pk, ye, bk, gr, rd, vi, grpk, rdbl)                                                                                                                 |
| C-track properties                 | 5 Mio.                                                                                                                                                                  |
| Material (jacket)                  | PUR (UL/CSA), welding spark                                                                                                                                             |
| Outer Ø                            | 6.9 mm ±5%                                                                                                                                                              |
| Bend radius (moving)               | 10× outer Ø                                                                                                                                                             |
| Temperature range (fixed)          | -40...+80 °C                                                                                                                                                            |
| Temperature range (mobile)         | -25...+80 °C                                                                                                                                                            |
| Cable identification               | 302                                                                                                                                                                     |
| Cable Type                         | 5 (PUR schweißfunkenbeständig)                                                                                                                                          |
| Approval (cable)                   | cURus (AWM-Style 20549/10493); CE conform                                                                                                                               |
| Cable weight [g/m]                 | 71,50                                                                                                                                                                   |
| 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)                    | 12× 0.25 mm <sup>2</sup>                                                                                                                                                |
| AWG                                | similar to AWG 24                                                                                                                                                       |
| Material (wire isolation)          | PP                                                                                                                                                                      |
| Material property (wire isolation) | CFC-, halogen-, cadmium-, silicone- and lead-free                                                                                                                       |
| Shore hardness (wire isolation)    | 74 ±3 D                                                                                                                                                                 |
| Wire-Ø incl. isolation             | 1.25 mm ±5%                                                                                                                                                             |
| Color/numbering of wires           | br, rd, gr, bk, ye, pk, gn, wh, bl, rdbl, grpk, vi                                                                                                                      |
| Stranding combination              | Twisted wires rdbl, grpk and vi, over it all other wires are 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-, microbial- and welding spark resistant |
| Shore hardness (jacket)            | 58 ±3 D                                                                                                                                                                 |
| Outer-Ø (jacket)                   | 6.9 mm ±5%                                                                                                                                                              |
| Color (jacket)                     | gray                                                                                                                                                                    |
| chemical resistance                | good resistance to oil, gasoline and chemicals (VDE 0472 Teil 803 Test B)                                                                                               |
| thermal resistance                 | flame retardant UL, FT2, IEC 60332-1, IEC 60332-2-2, welding spark resistant                                                                                            |
| 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. 5 Mio. (25 °C)                                                                                                                                                     |
| Traversing distance (C-track)      | max. 5 m (horizontal)                                                                                                                                                   |
| Travel speed (C-track)             | max. 3.3 m/s                                                                                                                                                            |

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

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|                        |                         |
|------------------------|-------------------------|
| Acceleration (C-track) | max. 5 m/s <sup>2</sup> |
| Torsion stress         | ±180°/m                 |
| No. of torsion cycles  | max. 1 Mio. (25 °C)     |
| Torsion speed          | 35 cycles/min           |
| Jacket Color           | gray                    |
| <b>Commercial data</b> |                         |
| country of origin      | DE                      |
| customs tariff number  | 85444290                |
| EAN                    | 4048879683845           |
| eClass                 | 27279218                |
| Packaging unit         | 1                       |