

**M12 male 90° / M12 female 90° A-cod.**

PUR 12x0.25 gy UL/CSA+drag ch. 0.5m

Male 90° – female 90°

M12 – M12, 12-pole

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

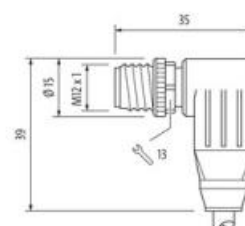
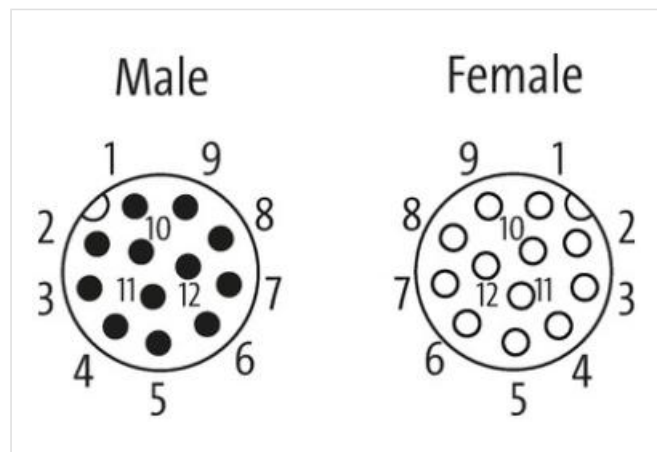
Plastic housings with good resistance against chemicals and oils.

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





Product may differ from Image



|                                     |                   |
|-------------------------------------|-------------------|
| Cable length                        | 0,5 m             |
| Side 1                              |                   |
| Tightening torque                   | 0,6 Nm            |
| Mounting method                     | inserted, screwed |
| Family construction form            | M12               |
| Thread                              | M12 x 1           |
| Coding                              | A                 |
| Width across flats                  | SW13              |
| Degree of protection (EN IEC 60529) | IP67              |
| Side 2                              |                   |
| Tightening torque                   | 0,6 Nm            |
| Mounting method                     | inserted, screwed |
| Family construction form            | M12               |
| Thread                              | M12 x 1           |
| Coding                              | A                 |
| Commercial data                     |                   |
| ECLASS-6.0                          | 27279218          |
| ECLASS-6.1                          | 27279218          |
| ECLASS-7.0                          | 27279218          |
| ECLASS-8.0                          | 27279218          |
| ECLASS-9.0                          | 27060311          |
| ECLASS-10.1                         | 27060311          |
| ECLASS-11.1                         | 27060311          |
| ECLASS-12.0                         | 27060311          |
| ETIM-5.0                            | EC001855          |
| customs tariff number               | 85444290          |
| GTIN                                | 4048879777087     |
| Packaging unit                      | 1                 |
| Electrical data   Supply            |                   |
| Operating voltage AC max.           | 30 V              |
| Operating voltage DC max.           | 30 V              |
| Operating voltage AC (UL-listed)    | 30 V              |

|                                          |                                                                                                                                                       |
|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating voltage DC (UL-listed)         | 30 V                                                                                                                                                  |
| Current operating per contact max.       | 1,5 A                                                                                                                                                 |
| <b>Device protection   Electrical</b>    |                                                                                                                                                       |
| Degree of protection (ISO 20653:2013)    | IP66K                                                                                                                                                 |
| Additional condition protection degree   | inserted, screwed                                                                                                                                     |
| Pollution Degree                         | 3                                                                                                                                                     |
| Rated surge voltage                      | 0,8 kV                                                                                                                                                |
| Material group (IEC 60664-1)             | II                                                                                                                                                    |
| <b>Mechanical data   Material data</b>   |                                                                                                                                                       |
| Coating locking                          | Nickeled                                                                                                                                              |
| Locking material                         | Zinc die-casting                                                                                                                                      |
| <b>Mechanical data   Mounting data</b>   |                                                                                                                                                       |
| Mounting method                          | inserted, screwed, Shaking protection                                                                                                                 |
| <b>Important installation notes</b>      |                                                                                                                                                       |
| Note on strain relief                    | Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.                                                   |
| Note on bending radius                   | <b>Attention:</b> Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces. |
| <b>Conformity</b>                        |                                                                                                                                                       |
| Product standard                         | DIN EN 61076-2-101 (M12)                                                                                                                              |
| <b>Installation   Cable</b>              |                                                                                                                                                       |
| Cable identification                     | 301                                                                                                                                                   |
| Jacket Color                             | gray                                                                                                                                                  |
| Type of Certificate                      | cURus                                                                                                                                                 |
| Amount stranding                         | 1                                                                                                                                                     |
| Stranding                                | 3 wires twisted                                                                                                                                       |
| Amount stranding (type 2)                | 1                                                                                                                                                     |
| Stranding (type 2)                       | 9 wires around Stranding combination twisted                                                                                                          |
| Banding                                  | Fleece                                                                                                                                                |
| wire arrangement                         | gray-pink, violet, red-blue, brown, red, gray, black, yellow, pink, green, white, blue                                                                |
| Traversing distance (C-track)            | 5 m @ 25 °C   horizontal                                                                                                                              |
| Cable weight                             | 69,3 g/m                                                                                                                                              |
| Material jacket                          | PUR                                                                                                                                                   |
| Shore hardness jacket                    | 85 ± 5 Shore A                                                                                                                                        |
| Freedom from ingredients (jacket)        | lead-free, cadmium-free, CFC-free, halogen-free, silicone-free                                                                                        |
| Outer-diameter (jacket)                  | 7 mm                                                                                                                                                  |
| Tolerance outer diameter (sheath)        | ± 5 %                                                                                                                                                 |
| Material wire insulation                 | PP                                                                                                                                                    |
| Amount wires                             | 12                                                                                                                                                    |
| Outer diameter insulation                | 1,25 mm                                                                                                                                               |
| Outer diameter tolerance core insulation | ± 5 %                                                                                                                                                 |
| Shore hardness wire insulation           | 50 ± 5 Shore D                                                                                                                                        |
| Ingredient freeness wire insulation      | lead-free, cadmium-free, CFC-free, halogen-free, silicone-free                                                                                        |
| Amount strands (wire)                    | 32                                                                                                                                                    |
| Diameter of single wires                 | 0,1 mm                                                                                                                                                |
| Conductor crosssection (wire)            | 0,25 mm²                                                                                                                                              |
| Material conductor wire                  | Stranded copper wire, bare                                                                                                                            |
| Conductor type (wire)                    | strand class 6                                                                                                                                        |
| Nominal voltage AC max.                  | 300 V                                                                                                                                                 |
| Current load capacity (standard)         | to DIN VDE 0298-4                                                                                                                                     |
| Current load capacity min. wire          | 3 A                                                                                                                                                   |
| Electrical resistance line constant wire | 76 Ω/km @ 20 °C                                                                                                                                       |
| AC withstand voltage (wire - wire)       | 1,5 kV @ 60 s                                                                                                                                         |

|                                                   |                                                      |
|---------------------------------------------------|------------------------------------------------------|
| Electric capacitance                              | 80000 pF/km                                          |
| Power frequency withstand voltage (wire - jacket) | 1,5 kV @ 60 s                                        |
| Min. operating temperature (static)               | -40 °C                                               |
| Max. operating temperature (fixed)                | 80 °C                                                |
| Operating temperature min. (dynamic)              | -20 °C                                               |
| Operating temperature max. (dynamic)              | 80 °C                                                |
| Flame resistance                                  | UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2  |
| chemical resistance                               | Good, application-related testing                    |
| Gasoline resistance                               | Good, application-related testing                    |
| Oil resistance                                    | Good, application-related testing   DIN EN 60811-404 |
| Bending radius (fixed)                            | 10 x Outer diameter                                  |
| Bending radius (dynamic)                          | 15 x Outer diameter                                  |
| Travel speed (C-track)                            | 3 Mio. @ 25 °C                                       |