

## M12 male 0° / M12 female 90° A-cod. LED

PUR 3x0.34 bk UL/CSA+drag ch. 15m

Male straight – female 90° M12 – M12, 3-pole 2× LED (PNP), (NPN) on request

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

Plastic housings with good resistance against chemicals and oils.

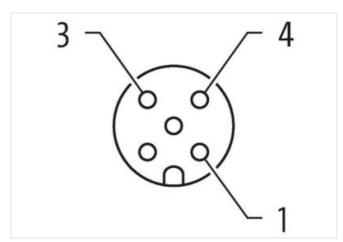
The resistance to aggressive media should be individually tested for your application. Further details on request.

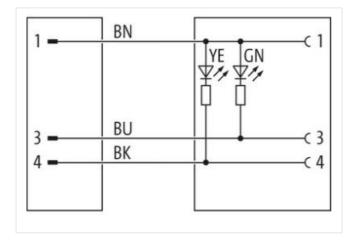
Further cable lengths on request.

## **Link to Product**

## Illustration





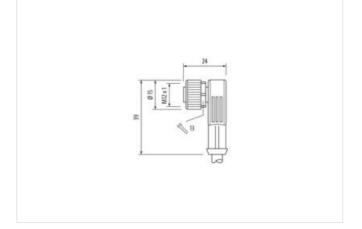






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Product may differ from Image











| Cable length                              | 15 m              |
|---|-------------------|
| Side 1                                    |                   |
| Tightening torque                         | 0,6 Nm            |
| Mounting method                           | inserted, screwed |
| Family construction form                  | M12               |
| Thread                                    | M12 x 1           |
| suitable for corrugated tube (internal Ø) | 10 mm             |
| Material                                  | PUR               |
| Width across flats                        | SW13              |
| Degree of protection (EN IEC 60529)       | IP65, IP66K, IP67 |
| Side 2                                    |                   |
| Tightening torque                         | 0,6 Nm            |
| Mounting method                           | inserted, screwed |
| Family construction form                  | M12               |
| Thread                                    | M12 x 1           |
| suitable for corrugated tube (internal Ø) | 10 mm             |
| Material                                  | PUR               |
| Width across flats                        | SW13              |
| Commercial data                           |                   |
| ECLASS-6.0                                | 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                                      | 4048879303774     |
| Packaging unit                            | 1                 |
| Electrical data   Supply                  |                   |
| Operating voltage DC                      | 24 V              |



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| Operating voltage DC min.  | 18 V   |
|--|--|
| Operating voltage DC max.  | 30 V   |
| Operating voltage DC max. (UL-listed)  | 30 V   |
| Current operating per contact max.   | 4 A  |
| Diagnostics  |  |
| Status indication LED  | groop vallou   |
|  | green, yellow  |
| Installation   Connection  |  |
| Mounting set   | M12 x 1  |
| Device protection   Electrical   |  |
| Additional condition protection degree   | inserted, screwed  |
| Pollution Degree   | 3  |
| Rated surge voltage  | 0,8 kV   |
| Material group (IEC 60664-1)   | ı  |
| Mechanical data   Material data  |  |
| Coating locking  | Nickeled   |
| Coating of fitting   | nickel plated  |
| Locking material   | Zinc die-casting   |
| Material screw connection  | Zinc die-casting   |
| Mechanical data   Mounting data  |  |
| Mounting method  | inserted, screwed, Shaking protection  |
| Environmental characteristics   Climatic   |  |
| Operating temperature min.   | -25 °C   |
| Operating temperature max.   | 85 °C  |
| Additional condition temperature range   | depending on cable quality   |
| Conformity   |  |
| Product standard   | DIN EN 61076-2-101 (M12)   |
| Installation   Cable   | DIVERSION E TOT (WILE)   |
|  | 699  |
| Cable identification  Cable Type   | 633<br>3   |
| Jacket Color   | black  |
| Type of Certificate  | cURus  |
| Amount stranding   | 1  |
| Stranding  | 3 wires twisted  |
| wire arrangement   | brown, black, blue   |
| No. of bending cycles (C-track)  | 10 Mio. @ 25 °C  |
| Cable weigth   | 29,7 g/m   |
| Material jacket  | PUR  |
| Shore hardness jacket  | 90 ± 5 Shore A   |
| Freedom from ingredients (jacket)  | lead-free, cadmium-free, CFC-free, halogen-free, silicone-free   |
|  |  |
| Outer-diameter (jacket)  | 4,1 mm   |
| Outer-diameter (jacket)  Tolerance outer diameter (sheath)   | 4,1 mm<br>± 5 %  |
|  | ·  |
| Tolerance outer diameter (sheath)  Material wire insulation  Amount wires  | ±5% PP 3   |
| Tolerance outer diameter (sheath)  Material wire insulation  | ± 5 % PP  3  1,25 mm   |
| Tolerance outer diameter (sheath)  Material wire insulation  Amount wires  Outer diameter insulation  Outer diameter tolerance core insulation   | ± 5 %  PP  3  1,25 mm  ± 5 %   |
| Tolerance outer diameter (sheath)  Material wire insulation  Amount wires  Outer diameter insulation  Outer diameter tolerance core insulation  Shore hardness wire insulation   | ± 5 %  PP  3  1,25 mm  ± 5 %  70 ± 5 Shore D   |
| Tolerance outer diameter (sheath)  Material wire insulation  Amount wires  Outer diameter insulation  Outer diameter tolerance core insulation  Shore hardness wire insulation  Ingredient freeness wire insulation  | ± 5 %  PP  3  1,25 mm  ± 5 %  70 ± 5 Shore D  lead-free, cadmium-free, CFC-free, halogen-free                    |
| Tolerance outer diameter (sheath)  Material wire insulation  Amount wires  Outer diameter insulation  Outer diameter tolerance core insulation  Shore hardness wire insulation  Ingredient freeness wire insulation  Amount strands (wire)                           | ± 5 %  PP  3  1,25 mm  ± 5 %  70 ± 5 Shore D  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  42 |
| Tolerance outer diameter (sheath)  Material wire insulation  Amount wires  Outer diameter insulation  Outer diameter tolerance core insulation  Shore hardness wire insulation  Ingredient freeness wire insulation  Amount strands (wire)  Diameter of single wires | ± 5 %  PP  3  1,25 mm  ± 5 %  70 ± 5 Shore D  lead-free, cadmium-free, CFC-free, halogen-free 42  0,1 mm         |
| Tolerance outer diameter (sheath)  Material wire insulation  Amount wires  Outer diameter insulation  Outer diameter tolerance core insulation  Shore hardness wire insulation  Ingredient freeness wire insulation  Amount strands (wire)                           | ± 5 %  PP  3  1,25 mm  ± 5 %  70 ± 5 Shore D  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  42 |

Torsion stress



| Conductor type (wire)                                   | strand class 6                                       |
|---|--|
| Traversing distance (C-track)                           | 10 m @ 25 °C   horizontal                            |
| Current load capacity (standard)                        | to DIN VDE 0298-4                                    |
| Current load capacity min. wire                         | 6 A  |
| Electrical resistance line constant wire                | 57 Ω/km @ 20 °C                                      |
| Nominal voltage power AC max.                           | 300 V  |
| Power frequency withstand voltage power (wire - jacket) | 2,5 kV @ 60 s  |
| AC withstand voltage power (wire - wire)                | 2,5 kV @ 60 s  |
| Min. operating temperature (static)                     | -40 °C   |
| Max. operating temperature (fixed)                      | 80 °C / 90 °C @ 10000 h Operation                    |
| Operating temperature min. (dynamic)                    | -25 °C   |
| Operating temperature max. (dynamic)                    | 80 °C / 90 °C @ 10000 h Operation                    |
| UV resistance   | DIN EN ISO 4892-2 A                                  |
| 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)                                  | 5 x Outer diameter                                   |
| Bending radius (dynamic)                                | 10 x Outer diameter                                  |
| No. of torsion cycles                                   | 2 Mio.   |
| Torsion speed   | 35 cycles/min  |

± 180 °/m