

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

PUR 3x0.34 bk UL/CSA+drag ch. 20m

Male straight - female 90°

M12 - M12, 3-pole

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

Plastic housings with good resistance against chemicals and oils.

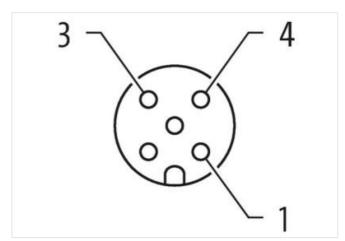
The resistance to aggressive media should be individually tested for your application. Further details on request.

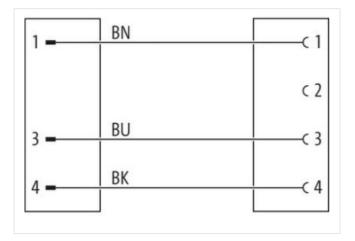
Further cable lengths on request.

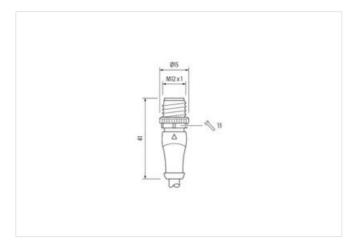
## **Link to Product**

## Illustration



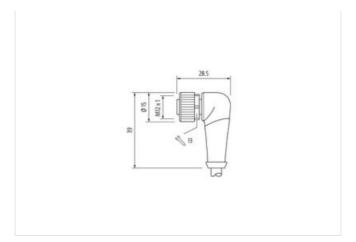


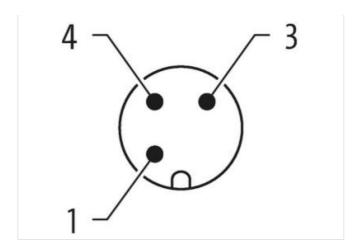






stay connected





Product may differ from Image



Cable length





20 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             |
| Coding                                    | A                 |
| 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             |
| Coding                                    | A                 |
| Material                                  | PUR               |
| Width across flats                        | SW13              |
| Degree of protection (EN IEC 60529)       | IP65, IP66K, IP67 |
| 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                                      | 4048879178860     |
| Packaging unit                            | 1                 |

The information in this Product-PDF has been compiled with the utmost care. Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2024-05-06



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| Electrical data   Supply  |   |
|---|---|
|   | 250.1/  |
| Operating voltage AC max.  Operating voltage DC max.  | 250 V<br>250 V  |
| Operating voltage AC (UL-listed)  | 30 V  |
| Operating voltage AC (UL-listed)  Operating voltage DC (UL-listed)  | 30 V  |
| Current operating per contact max.  | 4 A   |
|   | TO  |
| Installation   Connection   |   |
| Mounting set  | M12 x 1   |
| Device protection   Electrical  |   |
| Additional condition protection degree  | inserted, screwed   |
| Pollution Degree  | 3   |
| Rated surge voltage   | 2,5 kV  |
| Material group (IEC 60664-1)  | I   |
| 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   |
|   | inserted, Sciewed, Graning protection   |
| Environmental characteristics   Climatic  |   |
| Operating temperature min.  | -25 °C  |
| Operating temperature max.  | 85 °C   |
| Additional condition temperature range  | depending on cable quality  |
| Important installation notes  |   |
| 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.                                     |
| Conformity  |   |
| Product standard  | DIN EN 61076-2-101 (M12)  |
| Installation   Cable  |   |
|   |   |
| Cable identification  | 633   |
|   | 633   |
| Cable Type  | 3   |
| Cable Type<br>Jacket Color  | 3<br>black  |
| Cable Type<br>Jacket Color<br>Type of Certificate   | 3   |
| Cable Type Jacket Color Type of Certificate Amount stranding  | 3<br>black<br>cURus   |
| Cable Type Jacket Color Type of Certificate Amount stranding Stranding  | 3 black cURus 1   |
| Cable Type  Jacket Color  Type of Certificate  Amount stranding  Stranding  wire arrangement  | 3 black cURus 1 3 wires twisted brown, black, blue  |
| Cable Type  Jacket Color  Type of Certificate  Amount stranding  Stranding  wire arrangement  Traversing distance (C-track)   | 3 black cURus 1 3 wires twisted   |
| Cable Type  Jacket Color  Type of Certificate  Amount stranding  Stranding wire arrangement  Traversing distance (C-track)  Cable weigth  | 3 black cURus 1 3 wires twisted brown, black, blue 10 m @ 25 °C   horizontal  |
| Cable Type  Jacket Color  Type of Certificate  Amount stranding  Stranding  wire arrangement  Traversing distance (C-track)  Cable weigth  Material jacket  | 3 black cURus 1 3 wires twisted brown, black, blue 10 m @ 25 °C   horizontal 29,7 g/m   |
| Cable Type  Jacket Color Type of Certificate  Amount stranding  Stranding wire arrangement  Traversing distance (C-track)  Cable weigth  Material jacket  Shore hardness jacket   | 3 black cURus 1 3 wires twisted brown, black, blue 10 m @ 25 °C   horizontal 29,7 g/m PUR   |
| Cable Type  Jacket Color  Type of Certificate  Amount stranding  Stranding  wire arrangement  Traversing distance (C-track)  Cable weigth  Material jacket  Shore hardness jacket  Freedom from ingredients (jacket)  | 3 black cURus 1 3 wires twisted brown, black, blue 10 m @ 25 °C   horizontal 29,7 g/m PUR 90 ± 5 Shore A  |
| Cable Type  Jacket Color  Type of Certificate  Amount stranding  Stranding  wire arrangement  Traversing distance (C-track)  Cable weigth  Material jacket  Shore hardness jacket  Freedom from ingredients (jacket)  Outer-diameter (jacket)   | black cURus  1 3 wires twisted brown, black, blue 10 m @ 25 °C   horizontal 29,7 g/m PUR 90 ± 5 Shore A lead-free, cadmium-free, CFC-free, halogen-free, silicone-free                    |
| Cable Type  Jacket Color Type of Certificate  Amount stranding Stranding wire arrangement Traversing distance (C-track)  Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket)  Outer-diameter (jacket) Tolerance outer diameter (sheath)  | 3 black cURus 1 3 wires twisted brown, black, blue 10 m @ 25 °C   horizontal 29,7 g/m PUR 90 ± 5 Shore A lead-free, cadmium-free, CFC-free, halogen-free 4,1 mm                           |
| Cable Type  Jacket Color  Type of Certificate  Amount stranding  Stranding  wire arrangement  Traversing distance (C-track)  Cable weigth  Material jacket  Shore hardness jacket  Freedom from ingredients (jacket)  Outer-diameter (jacket)  Tolerance outer diameter (sheath)  Material wire insulation  | black cURus  1 3 wires twisted brown, black, blue 10 m @ 25 °C   horizontal 29,7 g/m PUR 90 ± 5 Shore A lead-free, cadmium-free, CFC-free, halogen-free 4,1 mm ± 5 %                      |
| Cable Type  Jacket Color  Type of Certificate  Amount stranding  Stranding  wire arrangement  Traversing distance (C-track)  Cable weigth  Material jacket  Shore hardness jacket  Freedom from ingredients (jacket)  Outer-diameter (jacket)  Tolerance outer diameter (sheath)  Material wire insulation  Amount wires  | black cURus  1 3 wires twisted brown, black, blue 10 m @ 25 °C   horizontal  29,7 g/m PUR 90 ± 5 Shore A lead-free, cadmium-free, CFC-free, halogen-free 4,1 mm ± 5 % PP                  |
| Cable identification  Cable Type  Jacket Color  Type of Certificate  Amount stranding  Stranding  wire arrangement  Traversing distance (C-track)  Cable weigth  Material jacket  Shore hardness jacket  Freedom from ingredients (jacket)  Outer-diameter (jacket)  Tolerance outer diameter (sheath)  Material wire insulation  Amount wires  Outer diameter insulation  Outer diameter tolerance core insulation | black cURus  1 3 wires twisted brown, black, blue 10 m @ 25 °C   horizontal 29,7 g/m PUR 90 ± 5 Shore A lead-free, cadmium-free, CFC-free, halogen-free, silicone-free 4,1 mm ± 5 % PP    |
| Cable Type  Jacket Color  Type of Certificate  Amount stranding  Stranding  wire arrangement  Traversing distance (C-track)  Cable weigth  Material jacket  Shore hardness jacket  Freedom from ingredients (jacket)  Outer-diameter (jacket)  Tolerance outer diameter (sheath)  Material wire insulation  Amount wires  Outer diameter insulation   | black cURus  1 3 wires twisted brown, black, blue  10 m @ 25 °C   horizontal  29,7 g/m  PUR  90 ± 5 Shore A  lead-free, cadmium-free, CFC-free, halogen-free 4,1 mm ± 5 %  PP  3  1,25 mm |



| Amount strands (wire)                             | 42   |
|---|--|
| Diameter of single wires                          | 0,1 mm   |
| Conductor crosssection (wire)                     | 0,34 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                   | 6 A  |
| Electrical resistance line constant wire          | 57 Ω/km @ 20 °C                                      |
| AC withstand voltage (wire - wire)                | 2,5 kV @ 60 s  |
| Power frequency withstand voltage (wire - jacket) | 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                                  |
| Travel speed (C-track)                            | 10 Mio. @ 25 °C                                      |
| No. of torsion cycles                             | 2 Mio.   |
| Torsion stress                                    | ± 180 °/m  |
| Torsion speed                                     | 35 cycles/min  |