

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

PUR 4x0.34+1x0.5 or UL/CSA+robot+drag ch. 2m

Male straight - female 90°

M12 - M12, 5-pole

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

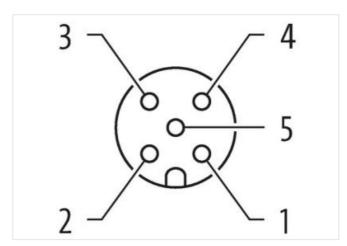
Plastic housings with good resistance against chemicals and oils.

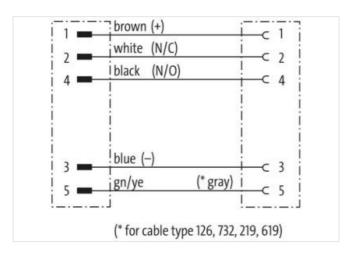
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

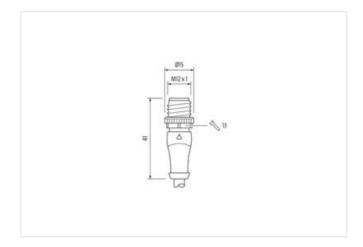
## **Link to Product**

## Illustration



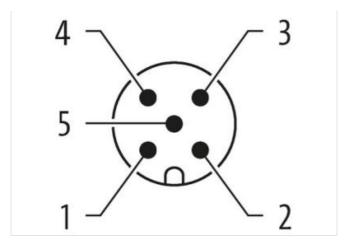


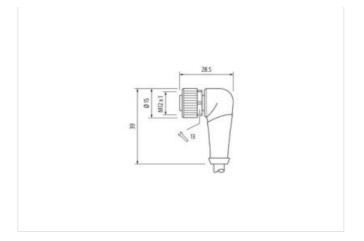






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Product may differ from Image



Cable length





2 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                                      | 4048879408042     |
| 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: 2024-05-20



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| Operating voltage AC max.  | 125 V   |
|--|---|
| Operating voltage DC max.  | 125 V   |
| Operating voltage AC (UL-listed)   | 30 V  |
| Operating voltage DC (UL-listed)   | 30 V  |
| Current operating per contact max.   | 4 A   |
|  | 7/1   |
| Installation   Connection  |   |
| Nounting set   | M12 x 1   |
| Device protection   Electrical   |   |
| dditional condition protection degree  | inserted, screwed   |
| Pollution Degree   | 3   |
| Rated surge voltage  | 1,5 kV  |
| faterial group (IEC 60664-1)   | I   |
| Mechanical data   Material data  |   |
| Coating locking  | safe-cover coated   |
| Coating of fitting   | nickel plated   |
| ocking material  | Zinc die-casting  |
| Material screw connection  | Zinc die-casting  |
| Mechanical data   Mounting data  |   |
| Mounting method  | inserted, screwed, Shaking protection   |
|  | - · · · · · · · · · · · · · · · · · · ·   |
| Environmental characteristics   Climatic   |   |
| perating temperature min.  | -25 °C  |
| perating temperature max.  | 85 °C   |
| dditional condition temperature range  | depending on cable quality  |
| Important installation notes   |   |
| lote on strain relief  | Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.   |
| lote 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   |   |
|  | brown black blue white groop vellow   |
| vire arrangement Cable identification  | brown, black, blue, white, green-yellow  852  |
| Cable Type   | 5   |
| function cable   | Hybrid, Signal, Power   |
| acket Color  | orange  |
| ype of Certificate   | cURus   |
| amount stranding   | 1   |
| Stranding  | 5 wires around Core filler twisted  |
| iller  | yes   |
| rire arrangement   | brown, black, blue, white, green-yellow   |
| Cable weigth   | 46,2 g/m  |
| - J-   | PUR   |
| Material jacket  |   |
| Material jacket<br>Shore hardness jacket   | 58 ± 3 Shore D  |
| Shore hardness jacket  |   |
| shore hardness jacket<br>freedom from ingredients (jacket)   | lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  |
| Shore hardness jacket  (reedom from ingredients (jacket)  Outer-diameter (jacket)  |   |
| chore hardness jacket freedom from ingredients (jacket) Outer-diameter (jacket) Folerance outer diameter (sheath)                          | lead-free, cadmium-free, CFC-free, halogen-free, silicone-free 5,2 mm   |
| Shore hardness jacket  (reedom from ingredients (jacket)  Outer-diameter (jacket)  | lead-free, cadmium-free, CFC-free, halogen-free, silicone-free 5,2 mm ± 5 %   |
| chore hardness jacket freedom from ingredients (jacket) Duter-diameter (jacket) Folerance outer diameter (sheath) Material wire insulation | lead-free, cadmium-free, CFC-free, halogen-free, silicone-free 5,2 mm ± 5 % PP  |



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| Shore hardness wire insulation                    | 74 ± 3 Shore D   |
|---|--|
| Ingredient freeness wire insulation               | lead-free, cadmium-free, CFC-free, halogen-free, silicone-free |
| 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   |
| Material wire insulation (Power)                  | PP   |
| Outer diameter wire insulation (Power)            | 1,4 mm   |
| Tolerance outer diameter wire insulation (Power)  | ±5 %   |
| Shore hardness wire insulation (Power)            | 74±3 Shore D   |
| Ingredient freeness wire insulation (Power)       | lead-free, cadmium-free, CFC-free, halogen-free, silicone-free |
| Amount wires (Power)                              | 1  |
| Amount strands wire (Power)                       | 16   |
| Diameter of single wires (Power)                  | 0,2 mm   |
| Wire conductor cross section (Power)              | 0,5 mm²  |
| Material conductor wire (Power)                   | Stranded copper wire, bare                                     |
| Conductor type wire (Power)                       | Strand class 5   |
| Nominal voltage AC max.                           | 300 V  |
| Current load capacity (standard)                  | to DIN VDE 0298-4  |
| Current load capacity min. wire                   | 4,5 A  |
| Current carrying capacity min. wire (Power)       | 6,8 A  |
| Electrical resistance line constant wire          | 60 Ω/km @ 20 °C  |
| Electrical resistance coating wire (Power)        | 39 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                              |
| Flame resistance                                  | UL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2            |
| 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 bending cycles (C-track)                   | 10 Mio. @ 25 °C  |
| Traversing distance (C-track)                     | 5 m @ 25 °C   horizontal                                       |
| Travel speed (C-track)                            | 3,3 m/s @ 25 °C  |
| No. of torsion cycles                             | 1 Mio.   |
| Torsion stress                                    | ± 360 °/m  |
| Torsion speed                                     | 35 cycles/min  |