

## M12 male 0° / M12 female 0° A-cod.

PUR 4x0.34 bk UL/CSA+drag ch. 1.9m

Male straight - female straight

M12 - M12, 4-pole

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

Plastic housings with good resistance against chemicals and oils.

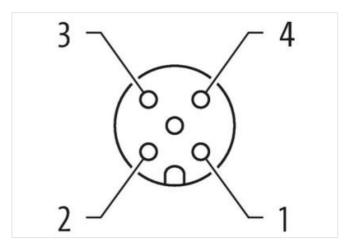
The resistance to aggressive media should be individually tested for your application. Further details on request.

Further cable lengths on request.

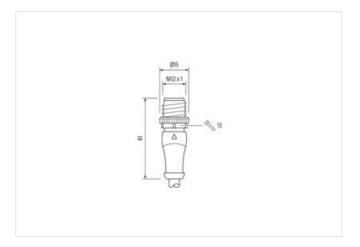
## **Link to Product**

## Illustration



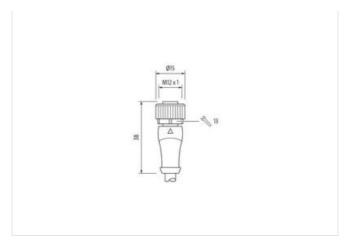


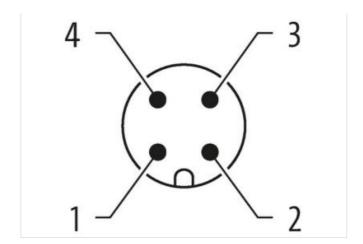






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Product may differ from Image













| 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)         IP66K, IP67           Side 2         Family construction (EN IEC 60529)         IP67           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           Commercial data         ECLASS-6.0           ECLASS-6.1         27279218           ECLASS-6.2         27279218           ECLASS-9.0         27060311           ECLASS-10.1         27060311           ECLASS-12.0         27060311           ECLASS-12.0         27060311           ECLASS-12.0         27060311           ECTASS-12.0         27060311 | Cable length                              | 1,9 m             |
|---|---|-------------------|
| Mounting method   inserted, screwed   | Side 1                                    |                   |
| 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           Meterial         PUR           Width across flats         SW13           Commercial data           ECLASS-6.0         27279218           ECLASS-6.1         27279218           ECLASS-7.0         27279218           ECLASS-9.0         27060311           ECLASS-11.1         27060311           ECLASS-12.0         27060311           ECLASS-12.0         27060311           ECLASS-12.0         27060311           ECLASS-12.0         E001855           customs tariff number         85444290                                      | Tightening torque                         | 0,6 Nm            |
| M12 x 1   | Mounting method                           | inserted, screwed |
| 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           Commercial data           ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27060311           ECLASS-10.1         27060311           ECLASS-12.0         27060311           ECLASS-12.0         EC01855           customs tariff number         85444290  | Family construction form                  | M12               |
| 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           Undersial         PUR           Width across flats         SW13           Commercial data           ECLASS-6.0         27279218           ECLASS-6.1         27279218           ECLASS-7.0         27279218           ECLASS-9.0         27060311           ECLASS-9.0         27060311           ECLASS-11.1         27060311           ECLASS-12.0         27060311           ECLASS-12.0         27060311           ECLASS-12.0         27060311           ECLASS-12.0         ECO01855           Counts tariff number         85444290  | Thread                                    | M12 x 1           |
| 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           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  | suitable for corrugated tube (internal Ø) | 10 mm             |
| Width across flats         SW13           Degree of protection (EN IEC 60529)         IP65, IP66K, IP67           Side 2         Protection (EN IEC 60529)           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           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   | Coding                                    | A                 |
| 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           Commercial data           ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-7.0         27279218           ECLASS-9.0         277060311           ECLASS-9.0         27060311           ECLASS-11.1         27060311           ECLASS-12.0         27060311           ECLASS-12.0         27060311           ETIM-5.0         EC001855           customs tariff number         85444290  | Material                                  | PUR               |
| 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           Commercial data           ECLASS-6.0         27279218           ECLASS-6.1         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27060311           ECLASS-9.0         27060311           ECLASS-11.1         27060311           ECLASS-12.0         27060311           ECLASS-12.0         ECO1855           customs tariff number         85444290  | Width across flats                        | SW13              |
| 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           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           ECLASS-12.0         27060311           ECLASS-10.1         27060311           ECLASS-10.2         27060311           ECLASS-10.3         27060311           ECLASS-12.0         ECUNBS5           Coustoms tariff number         85444290   | Degree of protection (EN IEC 60529)       | IP65, IP66K, IP67 |
| 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           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           ECLASS-12.0         27060311           ECLASS-11.1         27060311           ECLASS-12.0         280811           ECLASS-11.1         27060311           ECLASS-12.0         27060311           ECLASS-12.0         280811           ECLASS-12.0         280811           ECLASS-12.0         280811           ECLASS-12.0         280811           ECLASS-12.0         280811           ECLASS-12.0         280811           ECLASS-12.0   | Side 2                                    |                   |
| Family construction form M12  Thread M12 x 1  suitable for corrugated tube (internal Ø) 10 mm  Coding A  Material PUR  Width across flats SW13  Commercial data  ECLASS-6.0 27279218  ECLASS-7.0 27279218  ECLASS-8.0 27279218  ECLASS-9.0 27279218  ECLASS-9.0 27060311  ECLASS-11.1 27060311  ECLASS-11.1 27060311  ECLASS-12.0 27060311  | Tightening torque                         | 0,6 Nm            |
| Thread       M12 x 1         suitable for corrugated tube (internal Ø)       10 mm         Coding       A         Material       PUR         Width across flats       SW13         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         ECLASS-12.0       27060311         ETIM-5.0       EC001855         customs tariff number       85444290   | Mounting method                           | inserted, screwed |
| suitable for corrugated tube (internal ∅)       10 mm         Coding       A         Material       PUR         Width across flats       SW13         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         ECLASS-12.0       27060311         ECLASS-12.0       EC01855         customs tariff number       85444290  | Family construction form                  | M12               |
| Coding         A           Material         PUR           Width across flats         SW13           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   | Thread                                    | M12 x 1           |
| Material         PUR           Width across flats         SW13           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           ECLASS-12.0         85444290  | suitable for corrugated tube (internal Ø) | 10 mm             |
| Width across flats         SW13           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           ECLASS-12.0         85444290   | 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   | Material                                  | PUR               |
| 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-11.1 27060311 ECLASS-12.0 27060311 ECLASS-12.0 27060311 ECLASS-12.0 27060311 ECLASS-12.0 27060311  | Width across flats                        | SW13              |
| 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 ECLASS-12.0 EC001855 Customs tariff number 85444290  | Commercial data                           |                   |
| 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  | ECLASS-6.0                                | 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   | ECLASS-6.1                                | 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  | ECLASS-7.0                                | 27279218          |
| ECLASS-10.1 27060311  ECLASS-11.1 27060311  ECLASS-12.0 27060311  ETIM-5.0 EC001855  customs tariff number 85444290   | ECLASS-8.0                                | 27279218          |
| ECLASS-11.1 27060311  ECLASS-12.0 27060311  ETIM-5.0 EC001855  customs tariff number 85444290   | ECLASS-9.0                                | 27060311          |
| ECLASS-12.0 27060311  ETIM-5.0 EC001855  customs tariff number 85444290   | ECLASS-10.1                               | 27060311          |
| ETIM-5.0 EC001855 customs tariff number 85444290  | ECLASS-11.1                               | 27060311          |
| customs tariff number 85444290  | ECLASS-12.0                               | 27060311          |
|   | ETIM-5.0                                  | EC001855          |
| GTIN 4065909083703  | customs tariff number                     | 85444290          |
|   | GTIN                                      | 4065909083703     |



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| Packaging unit                           | 1   |
|--|---|
| Electrical data   Supply                 |   |
| Operating voltage AC max.                | 250 V   |
| Operating voltage DC max.                | 250 V   |
| Operating voltage AC (UL-listed)         | 30 V  |
| Operating voltage DC (UL-listed)         | 30 V  |
| Current operating per contact max.       | 4 A   |
| Installation   Connection                |   |
|  | M12 x 1   |
| 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)             |   |
| 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  |
| 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                     |   |
| wire arrangement                         | brown, black, blue, white   |
| Cable identification                     | 634   |
| Cable Type                               | 3   |
| Jacket Color                             | black   |
| Type of Certificate                      | cURus   |
| Amount stranding                         | 1   |
| Stranding                                | 4 wires twisted   |
| wire arrangement                         | brown, black, blue, white   |
| Cable weigth                             | 36,3 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)                  | 4,5 mm  |
| Tolerance outer diameter (sheath)        | ±5%   |
| Material wire insulation                 | PP  |
| Amount wires                             | 4   |
| Outer diameter insulation                | 1,25 mm   |
| Outer diameter tolerance core insulation | ±5%   |
| Shore hardness wire insulation           | 70 ± 5 Shore D  |
|  |   |

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: 2024-05-19



| 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   |
| Nominal voltage AC max.                           | 300 V  |
| Current load capacity (standard)                  | to DIN VDE 0298-4  |
| Current load capacity min. wire                   | 4,8 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   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)                     | 10 m @ 25 °C   horizontal                                      |
| Travel speed (C-track)                            | 3 m/s @ 25 °C  |
| No. of torsion cycles                             | 2 Mio.   |
| Torsion stress                                    | ± 180 °/m  |
| Torsion speed                                     | 35 cycles/min  |