

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

PUR 3x0.34 bk UL/CSA+drag ch. 0.9m

$$\label{eq:male_straight} \begin{split} &\text{Male straight} - \text{female } 90^{\circ} \\ &\text{M12} - \text{M12, 3-pole} \\ &2\times \text{ LED (PNP), (NPN) on request} \end{split}$$

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

Plastic housings with good resistance against chemicals and oils.

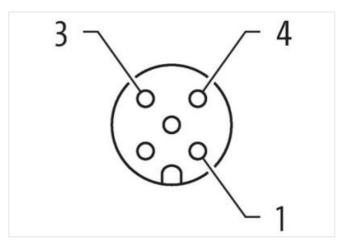
The resistance to aggressive media should be individually tested for your application. Further details on request.

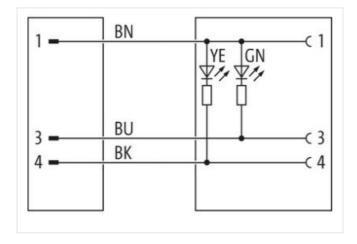
Further cable lengths on request.

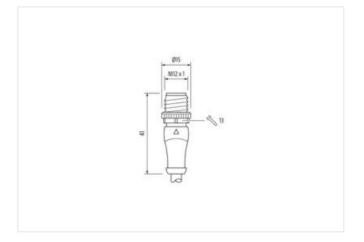
## **Link to Product**

## Illustration



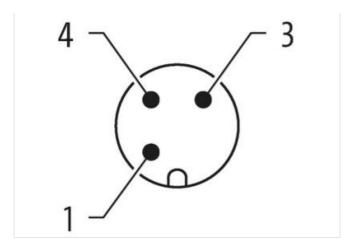


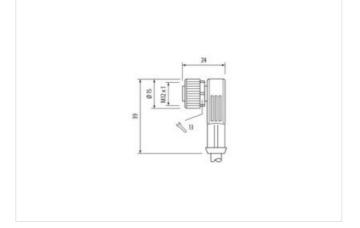






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Product may differ from Image











| Mounting method inserted, screwed Family construction form M12 Thread M12 x 1 suitable for corrugated tube (internal Ø) 10 mm 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 EC001855 customs flats IN 10 M 10   | Cable length                              | 0,9 m             |
|--|---|-------------------|
| 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 EC001855 customs flats IN 10 M 10   | Side 1                                    |                   |
| 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 ECLASS-12.0 27060311 ECLASS-12.0 ECO01855 Customer and M12 AV 1 SUITABLE AV 1 S | Tightening torque                         | 0,6 Nm            |
| 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 2709311 ECLASS-9.0 27060311 ECLASS-11.1 27060311 ECLASS-12.0 27060311 ECLASS-12.0 27060311 ECLASS-10.0 EC001855 customs tariff number 8544290 GTIN 4048879738262 Packaging unit 1  Electrical data   Supply  | Mounting method                           | inserted, screwed |
| 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           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-9.0         27060311           ECLASS-9.0         27060311           ECLASS-10.1         27060311           ECLASS-12.0         27060311           ECLASS-12.0         27060311           ECLASS-12.0         EC001855           customs tariff number         8544290           GTIN         4048879738262           Packaging unit         1           Electrical data   Supply  | Family construction form                  | M12               |
| 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-9.0         27060311           ECLASS-9.0         27060311           ECLASS-1.1         27060311           ECLASS-11.1         27060311           ECLASS-12.0         27060311           ECLASS-10.0         EC001855           customs tariff number         85444290           GTIN         4048879738262           Packaging unit         1           Electrical data   Supply   | Thread                                    | M12 x 1           |
| 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         22729218           ECLASS-7.0         22729218           ECLASS-9.0         27060311           ECLASS-9.0         27060311           ECLASS-10.1         27060311           ECLASS-12.0         27060311           ETIM-5.0         ECM855           coustoms tariff number         85444290           GTIN         4048879738262           Packaging unit         1           Electrical data   Supply  | suitable for corrugated tube (internal Ø) | 10 mm             |
| Degree of protection (EN IEC 60529)  Fightening torque  0,6 Nm  Mounting method  inserted, screwed  Family construction form  M12  Thread  M12 x 1  suitable for corrugated tube (internal Ø)  Midterial  PUR  Width across flats  SW13  Commercial data  ECLASS-6.0  27279218  ECLASS-7.0  27279218  ECLASS-9.0  27060311  ECLASS-10.1  27060311  ECLASS-11.1  27060311  ECLASS-12.0  27060311  ETIM-5.0  ECMS SCHARD  ECLASS-10.1  ETIM-5.0  ECOMBES  COUNTIES SCHARD  ECLASS-10.1  ECL | 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           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           ECLASS-12.0         27060311           ECLASS-12.0         27060311           ECTASS-10.1         27060311           ECLASS-12.0         25001855           customs tariff number         85444290           GTIN         4048879738262           Packaging unit         1           Electrical data   Supply  | 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  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 27279218  ECLASS-9.0 27279218  ECLASS-10.1 27060311  ECLASS-10.1 27060311  ECLASS-11.1 27060311  ECLASS-12.0 2  | 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           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         4048879738262           Packaging unit         1           Electrical data   Supply  | Side 2                                    |                   |
| 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         4048879738262           Packaging unit         1           Electrical data   Supply  | Tightening torque                         | 0,6 Nm            |
| 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         4048879738262           Packaging unit         1           Electrical data   Supply   | Mounting method                           | inserted, screwed |
| 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       4048879738262         Packaging unit       1         Electrical data   Supply  | Family construction form                  | M12               |
| 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         4048879738262           Packaging unit         1           Electrical data   Supply  | Thread                                    | M12 x 1           |
| 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         4048879738262           Packaging unit         1           Electrical data   Supply   | suitable for corrugated tube (internal Ø) | 10 mm             |
| 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         4048879738262           Packaging unit         1           Electrical data   Supply   | Material                                  | PUR               |
| 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-11.1 27060311 ECLASS-11.0 27060311 ECLASS-12.0 27060311 ETIM-5.0 EC001855 customs tariff number 85444290 GTIN 4048879738262 Packaging unit 1  Electrical data   Supply  | Width across flats                        | SW13              |
| 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 4048879738262  Packaging unit 1  Electrical data   Supply   | Commercial data                           |                   |
| 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 4048879738262  Packaging unit 1  Electrical data   Supply  | ECLASS-6.0                                | 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 4048879738262  Packaging unit 1  Electrical data   Supply   | ECLASS-7.0                                | 27279218          |
| ECLASS-10.1 27060311  ECLASS-11.1 27060311  ECLASS-12.0 27060311  ETIM-5.0 EC001855 customs tariff number 85444290  GTIN 4048879738262  Packaging unit 1  Electrical data   Supply   | ECLASS-8.0                                | 27279218          |
| ECLASS-11.1 27060311  ECLASS-12.0 27060311  ETIM-5.0 EC001855 customs tariff number 85444290  GTIN 4048879738262  Packaging unit 1  Electrical data   Supply   | ECLASS-9.0                                | 27060311          |
| ECLASS-12.0 27060311  ETIM-5.0 EC001855  customs tariff number 85444290  GTIN 4048879738262  Packaging unit 1  Electrical data   Supply  | ECLASS-10.1                               | 27060311          |
| ETIM-5.0 EC001855 customs tariff number 85444290 GTIN 4048879738262 Packaging unit 1  Electrical data   Supply   | ECLASS-11.1                               | 27060311          |
| customs tariff number 85444290 GTIN 4048879738262 Packaging unit 1  Electrical data   Supply   | ECLASS-12.0                               | 27060311          |
| GTIN 4048879738262 Packaging unit 1  Electrical data   Supply  | ETIM-5.0                                  | EC001855          |
| Packaging unit 1  Electrical data   Supply   | customs tariff number                     | 85444290          |
| Electrical data   Supply   | GTIN                                      | 4048879738262     |
|  | Packaging unit                            | 1                 |
| Operating voltage DC 24 V  | 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                                  | green, yellow  |
| Installation   Connection                              | g.co.ii, your  |
|  | 140.   |
| 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)                           | 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                          |
| Environmental characteristics   Climatic               |  |
| ·  | -25 °C   |
| Operating temperature min.  Operating temperature max. | 85 °C  |
| Additional condition temperature range                 | depending on cable quality                                     |
|  | depending on cable quality                                     |
| Conformity   |  |
| Product standard                                       | DIN EN 61076-2-101 (M12)                                       |
| Installation   Cable                                   |  |
| Cable identification                                   | 633  |
| Cable Type   | 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   |
| Tolerance outer diameter (sheath)                      | ± 5 %  |
| Material wire insulation                               | PP   |
| Amount wires   | 3<br>1.05 mm   |
| Outer diameter insulation                              | 1,25 mm  |
| Outer diameter tolerance core insulation               | ± 5 %  |
| Shore hardness wire insulation                         | 70 ± 5 Shore D   |
| Ingredient freeness wire insulation                    | lead-free, cadmium-free, CFC-free, halogen-free, silicone-free |
| Amount strands (wire)  Diameter of single wires        | 42<br>0,1 mm   |
| Conductor crosssection (wire)                          | 0,34 mm <sup>2</sup>   |
| Material conductor wire                                | Stranded copper wire, bare                                     |
| a.onar oonaaotor wiro                                  |  |



| 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  |
| Torsion stress  | ± 180 °/m  |