

## M12 female 0° A-cod. with cable shielded

PUR 5x0.34 shielded bk UL/CSA+drag ch. 50m

M12, 5-pole Female straight shielded

with cable sleeves

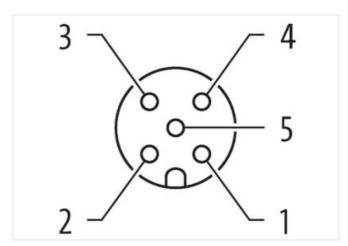
Plastic housings with good resistance against chemicals and oils.

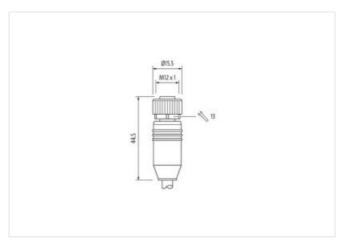
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

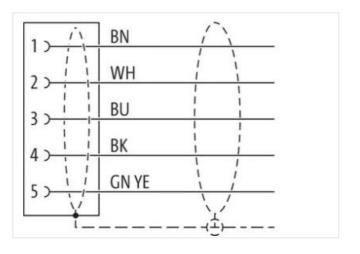
## **Link to Product**

## Illustration









Product may differ from Image













Cable length

50 m

Side 1

Tightening torque

0,6 Nm



stay connected

| Family construction form  M12 Trinead  M13 Trinead  M14 Trinead  M15 Trinead  M16 A Makerial  PUR  PUR  PUR  PUR  PUR  PUR  PUR  PU  | Mounting method           | inserted, screwed |
|--|---------------------------|-------------------|
| Tread  |                           |                   |
| Code of the Code   |                           |                   |
| Decision    |                           |                   |
| Meered         PUR           Wirdin across Teates         SW13           Subregare of protection (EN IEC 80529)         IP55, IP66K, IP67           Subregare of protection (EN IEC 80529)         IP55, IP66K, IP67           Subregare of protection (EN IEC 80529)         SUB SW15           Commercial data         Commercial data           ECLASS 6.0         27278218           ECLASS 7.0         27278218           ECLASS 8.0         27278218           ECLASS 9.0         27060311           ECLASS 1.1         27060311           ECLASS 1.2.0         27060311           ECLASS 1.2.0         27060311           ECLASS 1.2.0         27060311           ETIMS 5.0         E001835           sustains suffil number         8544239           STIN         404877846301           Packagarg unit         1           Electrical data   Supply           Operating voltage AC max.         60 V           Operating voltage AC max.         60 V           Operating voltage AC (UL-stead)         30 V           Current operating port contact max.         4 A           Mounting set         M12 x 1           Gender         female           Device protection   Electrical   |                           | <del>-</del>      |
| Width across flate         SW13           Degree of procesion (EN ICC 60529)         IPBS, IPG6K, IPS7           Stripping length (jacker)         20 mm           Commercial date           ECLASS 6.0         27279218           ECLASS 7.0         27279218           ECLASS 8.0         27290311           ECLASS 9.1         27080311           ECLASS 1.1         27080311           ECLASS 1.2.0         27080311 <td></td> <td></td>   |                           |                   |
| Degree of protection (EN IEC 60529)         IP65, IP66K, IP67           Sible 2         Sible 2           Sible 2         Sible 3           Sible 3         Sible 3           Stripping length (jacker)         20 mm           Commercial data         Commercial data           ECLASS 7.0         27279218           ECLASS 8.0         27900311           ECLASS 1.1         27000311           ECLASS 1.2.1         27000311           ECLASS 1.2.0         27000311           ECLASS 1.2.0         27000311           ECLASS 1.2.0         27000311           ETIM 5.0         EC001855           SUBJOINT STRIP MINIOR         4048678943001           Packagong unit         1           Electrical data (Supply)           Operating voltage AC max.         60 V           Operating voltage AC max.         60 V           Operating voltage AC (ILL sisted)         30 V           Operating  |                           |                   |
| Side 2           Sifting ing langth (sacken)         20 mm           Commercial data         Commercial data           ECLASS-7.0         2779218           ECLASS-7.0         2779218           ECLASS-8.0         2779218           ECLASS-9.0         277060311           ECLASS-10.1         27060311           ECLASS-11.1         27060311           ECLASS-12.0         27060311           Eclassian Commender of the Commen  |                           |                   |
| Stripping langth (lackval)   |                           | IP65, IP66K, IP67 |
| Commercial data           ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27050311           ECLASS-1.1         27060311           ECLASS-11.1         27060311           ECLASS-12.0         27060311           ECLASS-11.1         27060311           ECLASS-12.0         27060311           ETIM-5.0         EC001855           sustoms staff number         85444290           GTIN         404887846301           Packaging unit         1           Electrical data   Supply         Electrical data   Supply           Operating voltage AC max.         60 V           Operating voltage AC max.         60 V           Operating voltage AC (max.         60 V           Operating voltage AC (U-lised)         30 V           Geride Geride         Inserted, socrewed           Follution Degree   | Side 2                    |                   |
| ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-8.0.1         27000311           ECLASS-10.1         27000311           ECLASS-11.1         27000311           ECLASS-12.0         27000311           ECLASS-13.0         EC01855           sustoms farif number         85444290           OTTN         4048879846301           Packaging unit         1           Electrical datal Suppty           Operating voltage AC max.         60 V           Operating voltage AC (U-listed)         30 V           Operating voltage DC (U-listed)         30 V           Operating voltage DC (U-listed)         30 V           Operating softing pc contact max.         4 A           Installation [Connection         Simpling length (isckel)           Simpling length (isckel)         20 mm           Mounting sot         M12 x 1           Gender         female           Device protection   Electrical           Additional condition protection degree         inserted, screwed           Pollution Degree         1,5 kV           Additional for protection degree         without           Contact of tax   | Stripping length (jacket) | 20 mm             |
| ECLASS-7.0 27279218  ECLASS-8.0 27279218  ECLASS-10.1 27060311  ECLASS-11.1 27060311  ECLASS-11.1 27060311  ECLASS-11.1 27060311  ETM-5.0 ECDASS-11.1 27060311  ETM-5.0 ECDASS-11.1 27060311  ETM-5.0 ECDASS-12.0 27060311  ELECTICAL STAIR TUMBER B5444290  GTIN 404887984301  Packaging unit 1.1  ELECTICAL STAIR TUMBER B5444290  GTIN 404887984301  ELECTICAL STAIR TUMBER B5444290  GTIN 404887984301  ELECTICAL STAIR TUMBER B5444290  GTIN 404887984301  ELECTICAL STAIR TUMBER B5444290  GOPERATING VOITED ACT B5444290  GOTTON  | Commercial data           |                   |
| ECLASS-8.0 27279218  ECLASS-9.0 27060311  ECLASS-1.1 27060311  ECLASS-1.2 27060311  ELECTIM-5 5 EC01855  austoms tariff rumber 85444290  GTITN 404887846301  FERCITIM-5 6 60 V  Operating voltage AC max. 60 V  Operating voltage DC (UL-listed) 30 V  Operating voltage Inserted Screwed Pollution Degree 3 Reted screwed Inserted Screwed | ECLASS-6.0                | 27279218          |
| ECLASS-9.0 27060311 ECLASS-10.1 27060311 ECLASS-11.1 27060311 ECLASS-12.0 27080311 ECLASS-12.0 27080311 ECLASS-12.0 ECO01855 ECLASS-12.0 ECO01855 ECLASS-12.0 ECO01855 ECLASS-12.0 ECCO01855 ECLASS-12.0 ECCO0185 ECLASS-12.0 ECCO01855 ECLASS-12.0 ECCO01855 ECLASS-12.0 ECCO0185 ECLASS-12.0 ECCO01855 ECLASS-12.0 ECCO01855 ECLASS-12.0 ECCO0185 ECLASS-12.0 ECCO01855 ECCASS-12.0 ECCO01855 ECCASS-12.0 EC | ECLASS-7.0                | 27279218          |
| ECLASS-10.1 27060311 ECLASS-11.2 27060311 ECLASS-12.0 27060311 ETIM-5.0 EC001855  uustoms tariff number 85444290 GTIN 404887846801 Packaging unit 1  Electrical data   Suppty  Operating voltage AC max. 60 V Operating voltage AC max. 60 V Operating voltage AC (UL-listed) 30 V Operating voltage AC (UL-listed) 41 V Operating voltage AC (U | ECLASS-8.0                | 27279218          |
| EGLASS-1.1.1         27060311           EGLASS-12.0         27060311           EGLASS-12.0         27060311           ETIMI-5.0         ECO01855           customs tariff number         85444290           GTIN         40488738463011           Packaging unit         1           Electrical data   Suppty           Operating voltage AC max.           Operating voltage DC max.         60 V           Operating voltage DC WL-listed)         30 V           Operating voltage DC (UL-listed)         30 V           Operating voltage DC (UL-listed)           Siripping length (packet)           Unitstallation   Connection           Siripping length (packet)           Unitstallation   Connection           Siripping length (packet)           Device protection   Electrical           Additional condition protection degree           Installation protection (Electrical           Additional condition protection degree           Installational Condition protection degree           Installational Condition protection (Electrical           Additional condition protection (Electrical           Additi  | ECLASS-9.0                | 27060311          |
| ECILAS-12.0         27060311           ETIM-5.0         EC001855           usustoms tarif number         85444290           GTIN         4046879846301           Packaging unit         1           Electrical data   Supply         Departing voltage AC max.           Operating voltage DC max.         60 V           Operating voltage DC (UL-listed)         30 V           Operating voltage DC (UL-listed)         30 V           Operating voltage DC (UL-listed)         30 V           Operating porting per contact max.         4 A           Installation   Connection         Stripping length (jacket)           Stripping length (jacket)         20 mm           Mounting set         M12 x 1           Gender         female           Device protection   Electrical           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Rated surge voltage         1,5 kV           Material group (IEC 60664-1)         1           Mechanical data         Without           Mechanical data   Material data         Control or for corrugate hose without           Mechanical data   Material data         Zinc die-casting           Material screw connection         Zinc die-c   | ECLASS-10.1               | 27060311          |
| ETIM-5.0         EC001855           customs tariff number         85444290           GTIN         4048879848301           Packaging unit         1           Electrical data   Supply         Voperating voltage AC max.         60 V           Operating voltage AC (UL-listed)         30 V           Operating voltage DC (UL-listed)         30 V           Operating per contact max.         4 A           Installation   Connection         Installation   Connection           Stripping length (jacket)         20 mm           Mounting set         M12 x 1           Gender         female           Device protection   Electrical           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Rated surge voltage         1,5 kV           Material group (IEC 60664-1)         I           Mechanical data         I           Control for corrugated hose         without           Mechanical data   Meterial data         I           Coating folking         Nickeled           Coating of fitting         nickel plated           Locking material         Zinc die-casting           Meterial screw connection         zinc die-casting  | ECLASS-11.1               | 27060311          |
| customs tariff number         85444290           GTIN         4048879846301           Packaging put         1           Electrical data   Supply           Operating voltage AC max.         60 V           Operating voltage DC max.         60 V           Operating voltage DC (UL-listed)         30 V           Operating portage DC (UL-listed)         30 V           Current operating per contact max.         4 A           Institution   Connection           Stripping length (jacket)         20 mm           Moduring set           Medicinal condition   Electrical         M12 x 1           Additional condition   Electrical         inserted, screwed           Pollution Degree         3           Read surge voltage         1,5 kV           Material group (IEC 60664-1)         1           Mechanical data           Mechanical data   Material data           Contain gokking         Nickeled           Coating locking         Nickelpal           Coating of fitting         nickel plated           Locking material         Zinc die-casting           Mechanical data   Mounting data         inserted, screwed, Shaking protection   |                           |                   |

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: 2024-06-03



stay connected

| 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, green-yellow   |
| Cable identification                             | 642   |
| Cable Type                                       | 3   |
| Jacket Color                                     | black   |
| Type of Certificate                              | cURus   |
| Amount stranding                                 | 1   |
| Stranding  | 5 wires around Core filler twisted  |
| Cable shielding (type)                           | copper braid, tinned  |
| Cable shielding (coverage)                       | 80 %  |
| Banding  | Fleece, Foil  |
| Filler   | yes   |
| wire arrangement                                 | brown, black, blue, white, green-yellow   |
| Cable weigth                                     | 57,2 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)                          | 5,6 mm  |
| Tolerance outer diameter (sheath)                | ± 5 %   |
| Material wire insulation                         | PP  |
| Amount wires                                     | 5   |
| Outer diameter insulation                        | 1,25 mm   |
|  | ± 5 %   |
| Outer diameter tolerance core insulation         | 70 ± 5 Shore D  |
| Shore hardness wire insulation                   |   |
| 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 mm <sup>2</sup>  |
| 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                  | 4,5 A   |
| Electrical resistance line constant wire         | 57 Ω/km @ 20 °C   |
| AC withstand voltage (wire - wire)               | 2 kV @ 60 s   |
| Power frequency withstand voltage (wire - acket) | 2 kV @ 60 s   |
| AC withstand voltage (wire - shield)             | 2 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   |
| JV 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                                   | DIN EN 60811-404   Good, application-related testing  |
| Bending radius (fixed)                           | 5 x Outer diameter  |
| Bending radius (dynamic)                         | 10 x Outer diameter   |



| No. of bending cycles (C-track) | 5 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           | 2 Mio.                   |
| Torsion stress                  | ± 30 °/m                 |
| Torsion speed                   | 35 cycles/min            |