

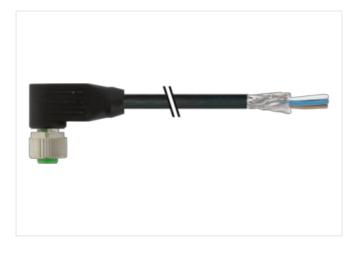
## M12 female 90° A-cod. with cable shielded

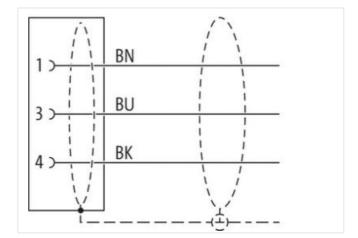
PUR 3x0.34 shielded bk UL/CSA+drag ch. 5m

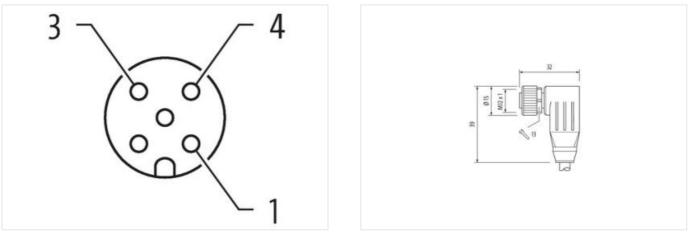
Female 90° M12, 3-pole shielded A-coded Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

## Link to Product

Illustration







Product may differ from Image



Cable length

Side 1

Tightening torque

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5 m

0,6 Nm

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| Mounting method                          | inserted, screwed                     |
|--|---------------------------------------|
| Family construction form                 | M12                                   |
| Thread                                   | M12 x 1                               |
| Coding                                   | A                                     |
| Material                                 | PUR                                   |
| Width across flats                       | SW13                                  |
| Degree of protection (EN IEC 60529)      | IP65, IP66K, IP67                     |
| Side 2                                   |                                       |
| Stripping length (jacket)                | 20 mm                                 |
| 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                              |
| GTIN                                     | 4048879657624                         |
| Packaging unit                           | 1                                     |
| Electrical data   Supply                 |                                       |
| Operating voltage AC max.                | 60 V                                  |
| Operating voltage DC max.                | 60 V                                  |
| Operating voltage AC (UL-listed)         | 30 V                                  |
| Operating voltage DC (UL-listed)         | 30 V                                  |
| Current operating per contact max.       | 4 A                                   |
| Installation   Connection                |                                       |
| Stripping length (jacket)                | 20 mm                                 |
| Mounting set                             | M12 x 1                               |
| 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   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            |
| Conformity                               |                                       |
| Product standard                         | DIN EN 61076-2-101 (M12)              |
|  |                                       |
| Installation   Cable                     |                                       |

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| Cable identification   | 640  |
|--|--|
| Cable Type   | 3  |
| Jacket Color   | black  |
| Type of Certificate  | cURus  |
| Amount stranding   | 1  |
| Stranding  | 3 wires twisted  |
| Cable shielding (type)   | copper braid, tinned   |
| Cable shielding (coverage)   | 80 %   |
| Banding  | Fleece, Foil   |
| <u> </u>   | brown, black, blue   |
| wire arrangement<br>Cable weigth   |  |
| Material jacket  | 44 g/m<br>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 mm   |
| Tolerance outer diameter (sheath)  | ± 5 %  |
| Material wire insulation   | PP   |
| Amount wires   | 3  |
| 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)  | 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   |
| Traversing distance (C-track)  | 5 m @ 25 °C   horizontal   |
| Travel speed (C-track)   | 5 Mio. @ 25 °C   |
|  |  |
| Nominal voltage AC max.  | 300 V  |
|  | 300 V<br>to DIN VDE 0298-4   |
| Nominal voltage AC max.<br>Current load capacity (standard)  |  |
| Nominal voltage AC max.<br>Current load capacity (standard)<br>Current load capacity min. wire   | to DIN VDE 0298-4<br>6 A   |
| Nominal voltage AC max.<br>Current load capacity (standard)<br>Current load capacity min. wire<br>Electrical resistance line constant wire   | to DIN VDE 0298-4<br>6 A<br>57 Ω/km @ 20 °C  |
| Nominal voltage AC max.   Current load capacity (standard)   Current load capacity min. wire   Electrical resistance line constant wire   AC withstand voltage (wire - wire)   Power frequency withstand voltage (wire -   | to DIN VDE 0298-4<br>6 A   |
| Nominal voltage AC max.   Current load capacity (standard)   Current load capacity min. wire   Electrical resistance line constant wire   AC withstand voltage (wire - wire)   Power frequency withstand voltage (wire - jacket)   | to DIN VDE 0298-4<br>6 A<br>57 Ω/km @ 20 °C<br>2 kV @ 60 s<br>2 kV @ 60 s  |
| Nominal voltage AC max.   Current load capacity (standard)   Current load capacity min. wire   Electrical resistance line constant wire   AC withstand voltage (wire - wire)   Power frequency withstand voltage (wire - jacket)   AC withstand voltage (wire - shield)  | to DIN VDE 0298-4<br>6 A<br>57 Ω/km @ 20 °C<br>2 kV @ 60 s<br>2 kV @ 60 s<br>2 kV @ 60 s   |
| Nominal voltage AC max.   Current load capacity (standard)   Current load capacity min. wire   Electrical resistance line constant wire   AC withstand voltage (wire - wire)   Power frequency withstand voltage (wire - jacket)   AC withstand voltage (wire - shield)   Min. operating temperature (static)  | to DIN VDE 0298-4<br>6 A<br>57 Ω/km @ 20 °C<br>2 kV @ 60 s<br>2 kV @ 60 s<br>2 kV @ 60 s<br>-40 °C   |
| Nominal voltage AC max.   Current load capacity (standard)   Current load capacity min. wire   Electrical resistance line constant wire   AC withstand voltage (wire - wire)   Power frequency withstand voltage (wire - jacket)   AC withstand voltage (wire - shield)   Min. operating temperature (static)   Max. operating temperature (fixed)   | to DIN VDE 0298-4   6 A   57 Ω/km @ 20 °C   2 kV @ 60 s   -40 °C   80 °C / 90 °C @ 10000 h Operation   |
| Nominal voltage AC max.   Current load capacity (standard)   Current load capacity min. wire   Electrical resistance line constant wire   AC withstand voltage (wire - wire)   Power frequency withstand voltage (wire - jacket)   AC withstand voltage (wire - shield)   Min. operating temperature (static)   Max. operating temperature (fixed)   Operating temperature min. (dynamic)  | to DIN VDE 0298-4   6 A   57 Ω/km @ 20 °C   2 kV @ 60 s   -40 °C   80 °C / 90 °C @ 10000 h Operation   -25 °C  |
| Nominal voltage AC max.   Current load capacity (standard)   Current load capacity min. wire   Electrical resistance line constant wire   AC withstand voltage (wire - wire)   Power frequency withstand voltage (wire - jacket)   AC withstand voltage (wire - shield)   Min. operating temperature (static)   Max. operating temperature (fixed)   Operating temperature min. (dynamic)   Operating temperature max. (dynamic)   | to DIN VDE 0298-4   6 A   57 Ω/km @ 20 °C   2 kV @ 60 s   -40 °C   80 °C / 90 °C @ 10000 h Operation   -25 °C   80 °C / 90 °C @ 10000 h Operation  |
| Nominal voltage AC max.   Current load capacity (standard)   Current load capacity min. wire   Electrical resistance line constant wire   AC withstand voltage (wire - wire)   Power frequency withstand voltage (wire - jacket)   AC withstand voltage (wire - shield)   Min. operating temperature (static)   Max. operating temperature min. (dynamic)   Operating temperature max. (dynamic)   UV resistance   | to DIN VDE 0298-4   6 A   57 Ω/km @ 20 °C   2 kV @ 60 s   -40 °C   80 °C / 90 °C @ 10000 h Operation   -25 °C   80 °C / 90 °C @ 10000 h Operation   DIN EN ISO 4892-2 A  |
| Nominal voltage AC max.   Current load capacity (standard)   Current load capacity min. wire   Electrical resistance line constant wire   AC withstand voltage (wire - wire)   Power frequency withstand voltage (wire - jacket)   AC withstand voltage (wire - shield)   Min. operating temperature (static)   Max. operating temperature (fixed)   Operating temperature min. (dynamic)   UV resistance   Flame resistance   | to DIN VDE 0298-4   6 A   57 Ω/km @ 20 °C   2 kV @ 60 s   2 kV @ 60 s   2 kV @ 60 s   -40 °C   80 °C / 90 °C @ 10000 h Operation   -25 °C   80 °C / 90 °C @ 10000 h Operation   DIN EN ISO 4892-2 A   UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2  |
| Nominal voltage AC max.   Current load capacity (standard)   Current load capacity min. wire   Electrical resistance line constant wire   AC withstand voltage (wire - wire)   Power frequency withstand voltage (wire - jacket)   AC withstand voltage (wire - shield)   Min. operating temperature (static)   Max. operating temperature (fixed)   Operating temperature min. (dynamic)   Operating temperature max. (dynamic)   UV resistance   Flame resistance   chemical resistance  | to DIN VDE 0298-4   6 A   57 Ω/km @ 20 °C   2 kV @ 60 s   -40 °C   80 °C / 90 °C @ 10000 h Operation   -25 °C   80 °C / 90 °C @ 10000 h Operation   DIN EN ISO 4892-2 A   UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2   Good, application-related testing  |
| Nominal voltage AC max.   Current load capacity (standard)   Current load capacity min. wire   Electrical resistance line constant wire   AC withstand voltage (wire - wire)   Power frequency withstand voltage (wire - jacket)   AC withstand voltage (wire - shield)   Min. operating temperature (static)   Max. operating temperature (fixed)   Operating temperature max. (dynamic)   UV resistance   Flame resistance   chemical resistance   Gasoline resistance   | to DIN VDE 0298-4   6 A   57 Ω/km @ 20 °C   2 kV @ 60 s   2 kV @ 60 s   2 kV @ 60 s   -40 °C   80 °C / 90 °C @ 10000 h Operation   -25 °C   80 °C / 90 °C @ 10000 h Operation   DIN EN ISO 4892-2 A   UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2   Good, application-related testing   Good, application-related testing  |
| Nominal voltage AC max.   Current load capacity (standard)   Current load capacity min. wire   Electrical resistance line constant wire   AC withstand voltage (wire - wire)   Power frequency withstand voltage (wire - jacket)   AC withstand voltage (wire - shield)   Min. operating temperature (static)   Max. operating temperature min. (dynamic)   Operating temperature max. (dynamic)   UV resistance   Flame resistance   chemical resistance   Oil resistance   | to DIN VDE 0298-4   6 A   57 Ω/km @ 20 °C   2 kV @ 60 s   2 kV @ 60 s   2 kV @ 60 s   -40 °C   80 °C / 90 °C @ 10000 h Operation   -25 °C   80 °C / 90 °C @ 10000 h Operation   DIN EN ISO 4892-2 A   UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2   Good, application-related testing   Good, application-related testing   Good, application-related testing  |
| Nominal voltage AC max.   Current load capacity (standard)   Current load capacity min. wire   Electrical resistance line constant wire   AC withstand voltage (wire - wire)   Power frequency withstand voltage (wire - jacket)   AC withstand voltage (wire - shield)   Min. operating temperature (static)   Max. operating temperature (fixed)   Operating temperature min. (dynamic)   UV resistance   Flame resistance   chemical resistance   Oil resistance   Oil resistance   Bending radius (fixed)  | to DIN VDE 0298-4   6 A   57 Ω/km @ 20 °C   2 kV @ 60 s   2 kV @ 60 s   2 kV @ 60 s   -40 °C   80 °C / 90 °C @ 10000 h Operation   -25 °C   80 °C / 90 °C @ 10000 h Operation   DIN EN ISO 4892-2 A   UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2   Good, application-related testing   Good, application-related testing   Good, application-related testing   S × Outer diameter                                 |
| Nominal voltage AC max.   Current load capacity (standard)   Current load capacity min. wire   Electrical resistance line constant wire   AC withstand voltage (wire - wire)   Power frequency withstand voltage (wire - jacket)   AC withstand voltage (wire - shield)   Min. operating temperature (static)   Max. operating temperature min. (dynamic)   Operating temperature max. (dynamic)   UV resistance   Flame resistance   chemical resistance   Oil resistance   Dil resistance   Bending radius (fixed)   Bending radius (dynamic)        | to DIN VDE 0298-4   6 A   57 Ω/km @ 20 °C   2 kV @ 60 s   2 kV @ 60 s   2 kV @ 60 s   -40 °C   80 °C / 90 °C @ 10000 h Operation   -25 °C   80 °C / 90 °C @ 10000 h Operation   DIN EN ISO 4892-2 A   UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2   Good, application-related testing   Good, application-related testing   Good, application-related testing   I 0 x Outer diameter   10 x Outer diameter         |
| Nominal voltage AC max.   Current load capacity (standard)   Current load capacity min. wire   Electrical resistance line constant wire   AC withstand voltage (wire - wire)   Power frequency withstand voltage (wire - jacket)   AC withstand voltage (wire - shield)   Min. operating temperature (static)   Max. operating temperature min. (dynamic)   Operating temperature max. (dynamic)   UV resistance   Flame resistance   chemical resistance   Oil resistance   Bending radius (fixed)   Bending radius (dynamic)   No. of torsion cycles | to DIN VDE 0298-4   6 A   57 Ω/km @ 20 °C   2 kV @ 60 s   2 kV @ 60 s   2 kV @ 60 s   -40 °C   80 °C / 90 °C @ 10000 h Operation   -25 °C   80 °C / 90 °C @ 10000 h Operation   DIN EN ISO 4892-2 A   UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2   Good, application-related testing   Good, application-related testing   Good, application-related testing   10 x Outer diameter   10 x Outer diameter   2 Mio. |
| Nominal voltage AC max.   Current load capacity (standard)   Current load capacity min. wire   Electrical resistance line constant wire   AC withstand voltage (wire - wire)   Power frequency withstand voltage (wire - jacket)   AC withstand voltage (wire - shield)   Min. operating temperature (static)   Max. operating temperature min. (dynamic)   Operating temperature max. (dynamic)   UV resistance   Flame resistance   chemical resistance   Oil resistance   Dil resistance   Bending radius (fixed)   Bending radius (dynamic)        | to DIN VDE 0298-4   6 A   57 Ω/km @ 20 °C   2 kV @ 60 s   2 kV @ 60 s   2 kV @ 60 s   -40 °C   80 °C / 90 °C @ 10000 h Operation   -25 °C   80 °C / 90 °C @ 10000 h Operation   DIN EN ISO 4892-2 A   UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2   Good, application-related testing   Good, application-related testing   Good, application-related testing   I 0 x Outer diameter   10 x Outer diameter         |

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