

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

PUR 4x0.34 shielded bk UL/CSA+drag ch. 20m

Male straight  
M12, 4-pole  
A-coded  
shielded

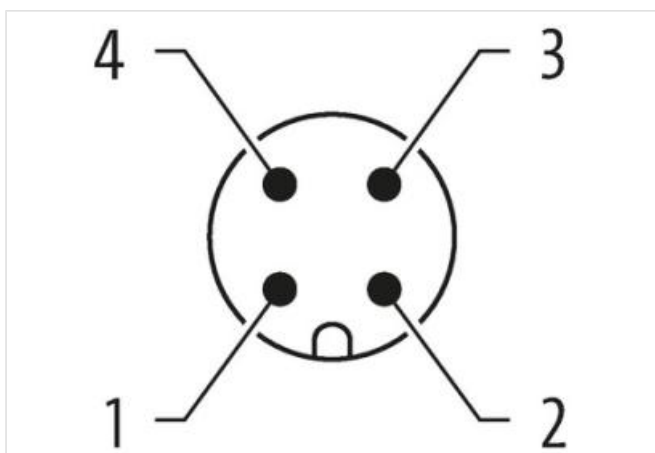
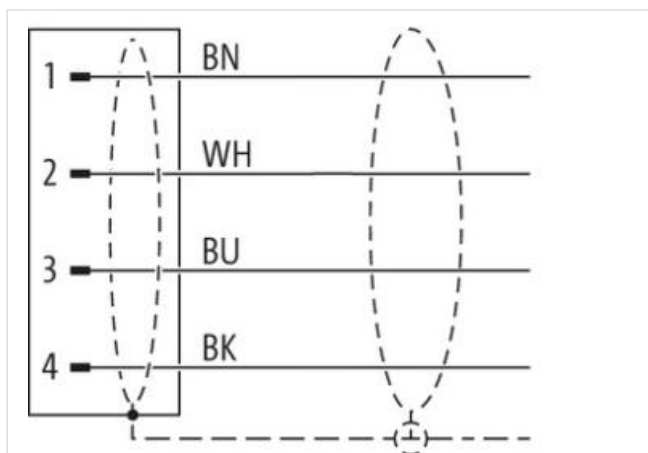
Plastic housings with good resistance against chemicals and oils.

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

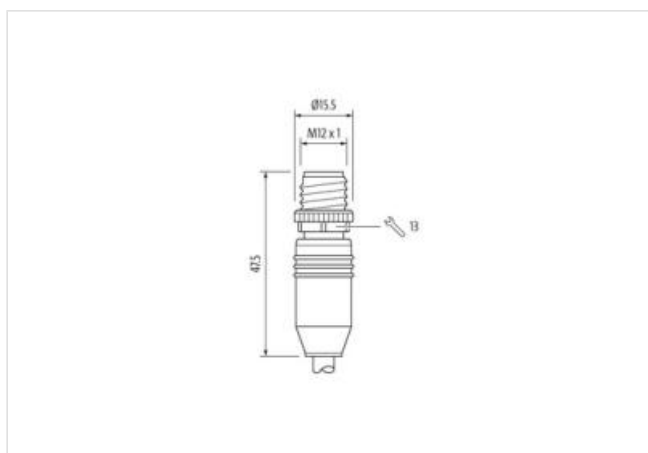
Further cable lengths on request.

## Linkki tuotteeseen

### Kuvat



Tuote voi erota kuvassa olevasta



Cable length 20 m

### Side 1

Tightening torque 0,6 Nm

Tämän tietolomakkeen tiedot on laadittu suurimmalla mahdollisella huolellisuudella.  
Vahingonkorvausvastuu koskien tietojen oikeellisuutta, laajuutta ja ajankohtaisuutta kattaa ainoastaan törkeän laiminlyönnin. Versio: 30.04.2024

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|                                     |                   |
|-------------------------------------|-------------------|
| Mounting method                     | inserted, screwed |
| Coating contact                     | gold plated       |
| Family construction form            | M12               |
| Thread                              | M12 x 1           |
| Coding                              | A                 |
| Material contact                    | Copper alloy      |
| Material                            | PUR               |
| No. of poles                        | 4                 |
| Width across flats                  | SW13              |
| Degree of protection (EN IEC 60529) | IP65, IP66K, IP67 |

**Side 2**

|                           |             |
|---------------------------|-------------|
| Stripping length (jacket) | 20 mm       |
| Coating contact           | gold plated |

**Kaupalliset tiedot**

|             |               |
|-------------|---------------|
| 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      |
| GTIN        | 4048879503068 |
| Pakkauskoko | 1             |
| Tullinumero | 85444290      |

**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  |

**Diagnostics**

|                       |    |
|-----------------------|----|
| Status indication LED | no |
|-----------------------|----|

**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                                                                                                                            |
| 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                                    |                                                                                                                                                       |
| Cable identification                                    | 641                                                                                                                                                   |
| Cable Type                                              | 3                                                                                                                                                     |
| Jacket Color                                            | black                                                                                                                                                 |
| Type of Certificate                                     | cURus                                                                                                                                                 |
| Amount stranding                                        | 1                                                                                                                                                     |
| Stranding                                               | 4 wires twisted                                                                                                                                       |
| Cable shielding (type)                                  | copper braid, tinned                                                                                                                                  |
| Cable shielding (coverage)                              | 80 %                                                                                                                                                  |
| Banding                                                 | Fleece, Foil                                                                                                                                          |
| wire arrangement                                        | brown, black, blue, white                                                                                                                             |
| Cable weigth                                            | 50,6 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)                                 | 5,3 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                                                                                                                                        |
| 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 crossection (wire)                            | 0,34 mm²                                                                                                                                              |
| Material conductor wire                                 | Stranded copper wire, bare                                                                                                                            |
| Conductor type (wire)                                   | strand class 6                                                                                                                                        |
| Traversing distance (C-track)                           | 5 m @ 25 °C   horizontal                                                                                                                              |
| 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                                                                                                                                       |
| Nominal voltage power AC max.                           | 300 V                                                                                                                                                 |
| AC withstand voltage power (wire - shield)              | 2 kV @ 60 s                                                                                                                                           |
| Power frequency withstand voltage power (wire - jacket) | 2 kV @ 60 s                                                                                                                                           |
| AC withstand voltage power (wire - wire)                | 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                                                                                                                     |
| UV resistance                                           | DIN EN ISO 4892-2 A                                                                                                                                   |
| Flame resistance                                        | IEC 60332-2-2   UL 1581 § 1090   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 |
| No. of bending cycles (C-track) | 5 Mio. @ 25 °C                                       |
| 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                  | ± 30 °/m                                             |