

# M12 male 90° X-cod. with cable shielded

PUR 4x2xAWG26 shielded gn UL/CSA 10m

Ethernet CAT6A

Male 90°

M12, 8-pole

shielded

Product fulfills requirements according to UN/ECE R118

Transmission properties with channel transmission up to 50 m

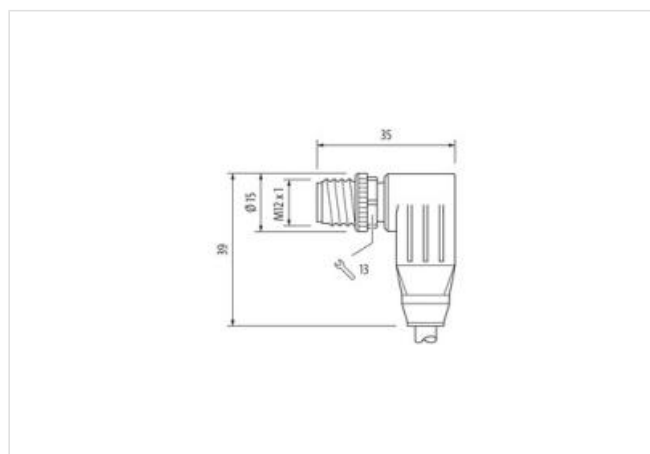
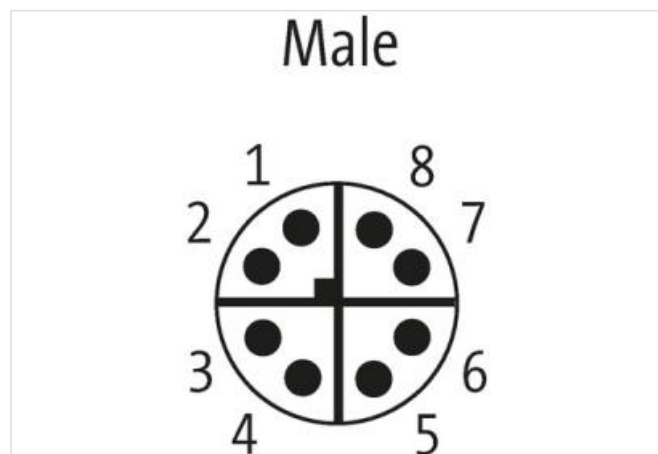
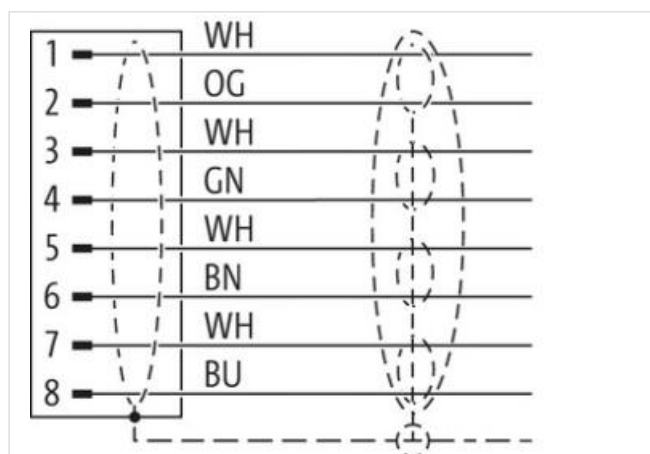
Further cable lengths on request.

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.

## [Linkki tuotteeseen](#)

### Kuvat



Tuote voi erota kuvassa olevasta



Cable length

10 m

|                                                 |                                                   |
|-------------------------------------------------|---------------------------------------------------|
| <b>Side 1</b>                                   |                                                   |
| Tightening torque                               | 0,6 Nm                                            |
| Mounting method                                 | inserted, screwed                                 |
| Family construction form                        | M12                                               |
| Thread                                          | M12 x 1                                           |
| Cable outlet                                    | angled                                            |
| Coding                                          | X                                                 |
| Material                                        | PUR                                               |
| No. of poles                                    | 8                                                 |
| Width across flats                              | SW13                                              |
| Degree of protection (EN IEC 60529)             | IP65, IP67                                        |
| <b>Side 2</b>                                   |                                                   |
| Family construction form                        | free cable end                                    |
| <b>Kaupalliset tiedot</b>                       |                                                   |
| ECLASS-6.0                                      | 27061801                                          |
| ECLASS-7.0                                      | 27061801                                          |
| ECLASS-8.0                                      | 27061801                                          |
| ECLASS-9.0                                      | 27061801                                          |
| ECLASS-10.1                                     | 27060307                                          |
| ECLASS-11.1                                     | 27060307                                          |
| ECLASS-12.0                                     | 27060307                                          |
| ETIM-5.0                                        | EC001855                                          |
| GTIN                                            | 4048879716659                                     |
| Pakkauskoko                                     | 1                                                 |
| Tullinumero                                     | 85444290                                          |
| <b>Electrical data   Supply</b>                 |                                                   |
| Operating voltage AC max.                       | 50 V                                              |
| Operating voltage DC max.                       | 60 V                                              |
| Current operating per contact max.              | 0,5 A                                             |
| <b>Industrial communication</b>                 |                                                   |
| Transfer parameters                             | CAT6, Class EA (ISO/IEC 11801:2002), (EN 50173-1) |
| Data transmission rate max.                     | 10 GBit/s                                         |
| <b>Installation   Connection</b>                |                                                   |
| Mounting set                                    | M12 x 1                                           |
| <b>Device protection   Electrical</b>           |                                                   |
| Additional condition protection degree          | inserted, screwed                                 |
| Pollution Degree                                | 3                                                 |
| Rated surge voltage                             | 1,5 kV                                            |
| Material group (IEC 60664-1)                    | I                                                 |
| <b>Mechanical data</b>                          |                                                   |
| Contour for corrugated hose                     | without                                           |
| <b>Mechanical data   Material data</b>          |                                                   |
| Coating locking                                 | Nickel                                            |
| Coating of fitting                              | nickel plated                                     |
| Locking material                                | Zinc die-casting                                  |
| Material screw connection                       | Zinc die-casting                                  |
| <b>Mechanical data   Mounting data</b>          |                                                   |
| Mounting method                                 | inserted, screwed, Shaking protection             |
| <b>Environmental characteristics   Climatic</b> |                                                   |
| 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 61076-2-109 (M12) |
|------------------|--------------------------|

#### Installation | Cable

|                                                   |                                                                |
|---------------------------------------------------|----------------------------------------------------------------|
| Cable identification                              | 790                                                            |
| Jacket Color                                      | green                                                          |
| Type of Certificate                               | cURus                                                          |
| Amount stranding                                  | 4                                                              |
| Stranding                                         | 2 wires twisted                                                |
| Amount stranding (type 2)                         | 1                                                              |
| Stranding (type 2)                                | 4 Stranded joints twisted                                      |
| Cable shielding (type)                            | copper braid, tinned                                           |
| Cable shielding (coverage)                        | 65 %                                                           |
| Banding                                           | Foil                                                           |
| wire arrangement                                  | (white, orange), (white, blue), (white, brown), (white, green) |
| Cable weight                                      | 52,8 g/m                                                       |
| Material jacket                                   | PUR                                                            |
| Shore hardness jacket                             | 89 Shore A                                                     |
| Freedom from ingredients (jacket)                 | lead-free, CFC-free, halogen-free                              |
| Outer-diameter (jacket)                           | 6,4 mm                                                         |
| Tolerance outer diameter (sheath)                 | ± 5 %                                                          |
| Material wire insulation                          | PE                                                             |
| Amount wires                                      | 8                                                              |
| Outer diameter insulation                         | 1,05 mm                                                        |
| Outer diameter tolerance core insulation          | ± 5 %                                                          |
| Shore hardness wire insulation                    | 65 Shore D                                                     |
| Ingredient freeness wire insulation               | lead-free, CFC-free, halogen-free                              |
| Amount strands (wire)                             | 7                                                              |
| Diameter of single wires                          | 26 AWG                                                         |
| Conductor crosssection (wire)                     | 26 AWG                                                         |
| Material conductor wire                           | Stranded copper wire, bare                                     |
| Nominal voltage AC max.                           | 125 V                                                          |
| Current load capacity (standard)                  | to DIN VDE 0298-4                                              |
| Current load capacity min. wire                   | 2 A                                                            |
| Electrical resistance line constant wire          | 140 Ω/km @ 20 °C                                               |
| AC withstand voltage (wire - wire)                | 2 kV @ 60 s                                                    |
| Electrical capacity line constant (wire - wire)   | 44000 pF/km                                                    |
| Power frequency withstand voltage (wire - jacket) | 2 kV @ 60 s                                                    |
| AC withstand voltage (wire - shield)              | 2 kV @ 60 s                                                    |
| Loop resistance                                   | 5000 MΩ × km                                                   |
| Min. operating temperature (static)               | -40 °C                                                         |
| Max. operating temperature (fixed)                | 80 °C                                                          |
| Operating temperature min. (dynamic)              | -30 °C                                                         |
| Operating temperature max. (dynamic)              | 70 °C                                                          |
| Flame resistance                                  | IEC 60332-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090            |
| chemical resistance                               | Good, application-related testing                              |
| Gasoline resistance                               | Good, application-related testing                              |
| Oil resistance                                    | Good, application-related testing   DIN EN 60811-404           |

Tämän tietolomakkeen tiedot on laadittu suurimmalla mahdollisella huolellisuudella.  
Vahingonkorvausvastuu koskien tietojen oikeellisuutta, laajuutta ja ajankohtaisuutta kattaa ainoastaan törkeän laiminlyönnin. Versio: 18.05.2024

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|                          |                     |
|--------------------------|---------------------|
| Bending radius (fixed)   | 8 x Outer diameter  |
| Bending radius (dynamic) | 10 x Outer diameter |