

**M12 male 0° X-cod. with cable shielded**

PUR 4x2xAWG26 shielded gn UL/CSA 20m

Ethernet CAT6A

Male straight

M12, 8-pole

shielded

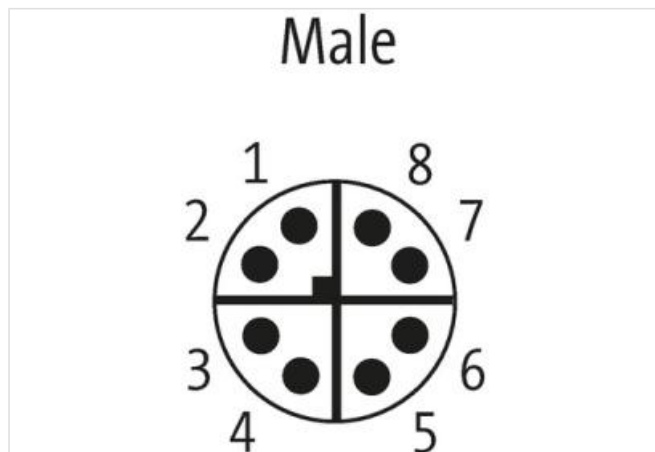
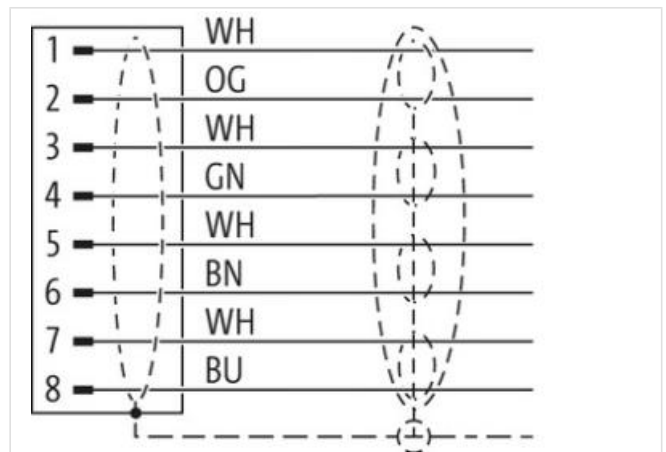
Product fulfills requirements according to UN/ECE R118

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

20 m

**Side 1**

|                                     |                   |
|-------------------------------------|-------------------|
| Tightening torque                   | 0,6 Nm            |
| Mounting method                     | inserted, screwed |
| Family construction form            | M12               |
| Thread                              | M12 x 1           |
| Cable outlet                        | straight          |
| Coding                              | X                 |
| Material                            | PUR               |
| No. of poles                        | 8                 |
| Width across flats                  | SW13              |
| Degree of protection (EN IEC 60529) | IP65, IP67        |

**Side 2**

|                          |                |
|--------------------------|----------------|
| Family construction form | free cable end |
|--------------------------|----------------|

**Kaupalliset tiedot**

|             |               |
|-------------|---------------|
| 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        | 4048879794794 |
| Pakkauskoko | 1             |
| Tullinumero | 85444290      |

**Electrical data | Supply**

|                                    |       |
|------------------------------------|-------|
| Operating voltage AC max.          | 50 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. | 0,5 A |

**Industrial communication**

|                             |                                                   |
|-----------------------------|---------------------------------------------------|
| Transfer parameters         | CAT6, Class EA (ISO/IEC 11801:2002), (EN 50173-1) |
| Data transmission rate max. | 10 GBit/s                                         |

**Installation | Connection**

|              |         |
|--------------|---------|
| 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**

|                             |         |
|-----------------------------|---------|
| Contour for corrugated hose | without |
|-----------------------------|---------|

**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                                                                                                                            |
| <b>Important installation notes</b>               |                                                                                                                                                       |
| 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. |
| <b>Conformity</b>                                 |                                                                                                                                                       |
| Product standard                                  | DIN EN 61076-2-109 (M12)                                                                                                                              |
| <b>Installation   Cable</b>                       |                                                                                                                                                       |
| 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 |
| Bending radius (fixed)   | 8 x Outer diameter                                   |
| Bending radius (dynamic) | 10 x Outer diameter                                  |