

**M12 male 90° / M12 male 90° X-cod. shielded**

PUR 4x2xAWG26 shielded gn UL/CSA 15m

Ethernet CAT6A

M12 – M12, 8-pole

Male 90° – male 90°

X-coded

shielded

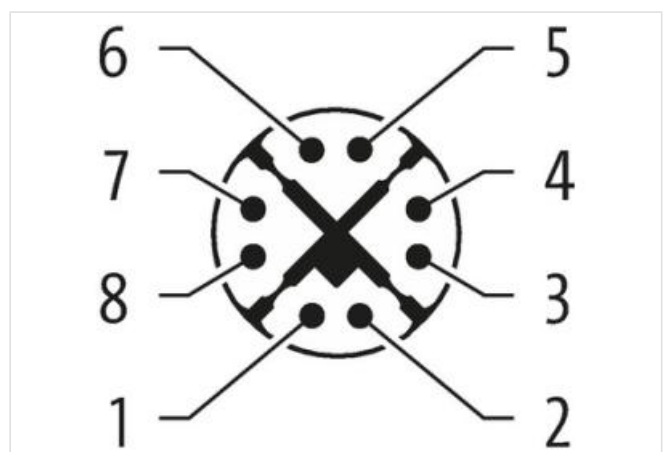
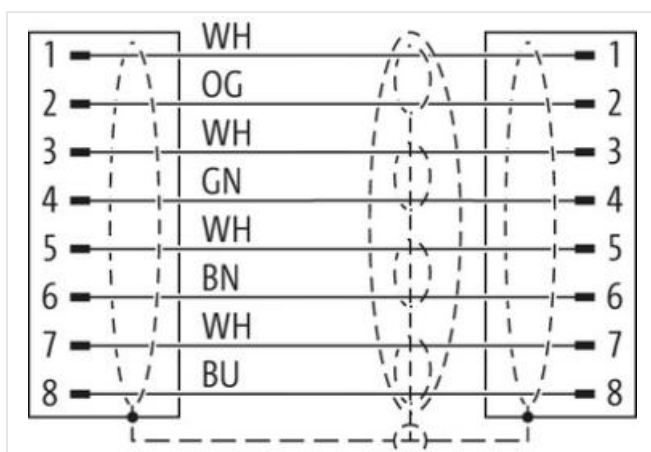
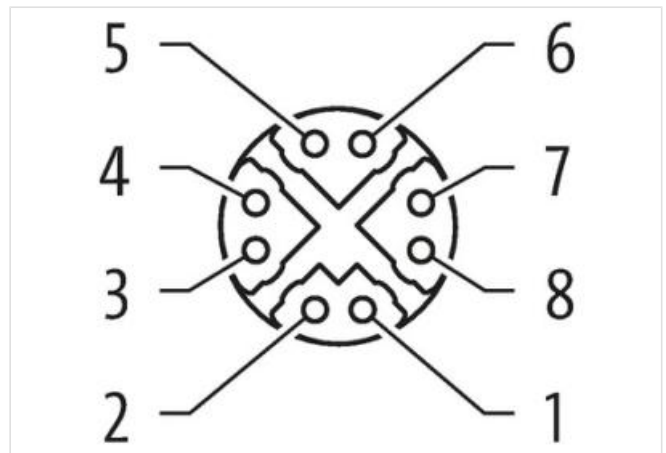
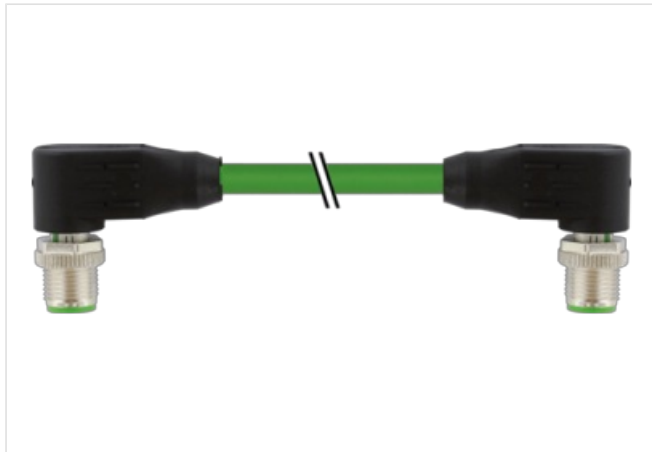
Product fulfills requirements according to UN/ECE R118

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.

[Link to Product](#)**Illustration**



Product may differ from Image



|                                     |                    |
|-------------------------------------|--------------------|
| Cable length                        | 15 m               |
| Side 1                              |                    |
| Tightening torque                   | 0,6 Nm             |
| Mounting method                     | screwed, pluggable |
| Family construction form            | M12                |
| Thread                              | M12 x 1            |
| Cable outlet                        | angled             |
| Coding                              | X                  |
| Material contact                    | Copper alloy       |
| Material                            | PUR                |
| No. of poles                        | 8                  |
| Width across flats                  | SW13               |
| Degree of protection (EN IEC 60529) | IP65, IP67         |
| Side 2                              |                    |
| Tightening torque                   | 0,6 Nm             |
| Mounting method                     | screwed, pluggable |
| Family construction form            | M12                |
| Thread                              | M12 x 1            |
| Cable outlet                        | angled             |
| Coding                              | X                  |
| Material contact                    | Copper alloy       |
| Material                            | PUR                |
| No. of poles                        | 8                  |
| Width across flats                  | SW13               |
| Degree of protection (EN IEC 60529) | IP65, IP67         |
| Commercial data                     |                    |
| ECLASS-6.0                          | 27061801           |
| ECLASS-6.1                          | 27060307           |
| ECLASS-7.0                          | 27060307           |
| ECLASS-8.0                          | 27060307           |
| ECLASS-9.0                          | 27060307           |
| ECLASS-10.1                         | 27060307           |

|                                                 |                                                                                                                                                       |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| ECLASS-11.1                                     | 27060307                                                                                                                                              |
| ECLASS-12.0                                     | 27060307                                                                                                                                              |
| ETIM-5.0                                        | EC001855                                                                                                                                              |
| customs tariff number                           | 85444290                                                                                                                                              |
| GTIN                                            | 4048879841986                                                                                                                                         |
| Packaging unit                                  | 1                                                                                                                                                     |
| <b>Electrical data   Supply</b>                 |                                                                                                                                                       |
| 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                                                                                                                                                 |
| <b>Industrial communication</b>                 |                                                                                                                                                       |
| Transfer parameters                             | CAT6, Class EA (ISO/IEC 11801:2002), (EN 50173-1)                                                                                                     |
| Data transmission rate max.                     | 10 GBit/s                                                                                                                                             |
| <b>Diagnostics</b>                              |                                                                                                                                                       |
| Status indication LED                           | no                                                                                                                                                    |
| <b>Device protection   Electrical</b>           |                                                                                                                                                       |
| Degree of protection (EN IEC 60529)             | IP65, IP67                                                                                                                                            |
| Additional condition protection degree          | inserted, screwed                                                                                                                                     |
| Rated surge voltage                             | 1,5 kV                                                                                                                                                |
| <b>Mechanical data   Material data</b>          |                                                                                                                                                       |
| Coating locking                                 | Nickeled                                                                                                                                              |
| Locking material                                | 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                                                                                                                            |
| <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                                                                                                                                    |
| <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                                  |