

**M12 female 0° D-cod. / RJ45 male 0° shielded**

PUR 1x4xAWG22 shielded gn UL/CSA+drag ch. 30.5m

Product fulfills requirements according to UN/ECE R118

Ethernet CAT5

Female straight – male straight

M12 – RJ45, 4-pole

D-coded

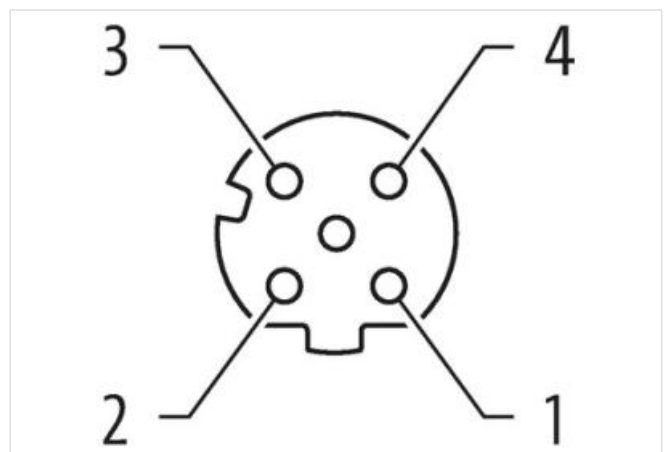
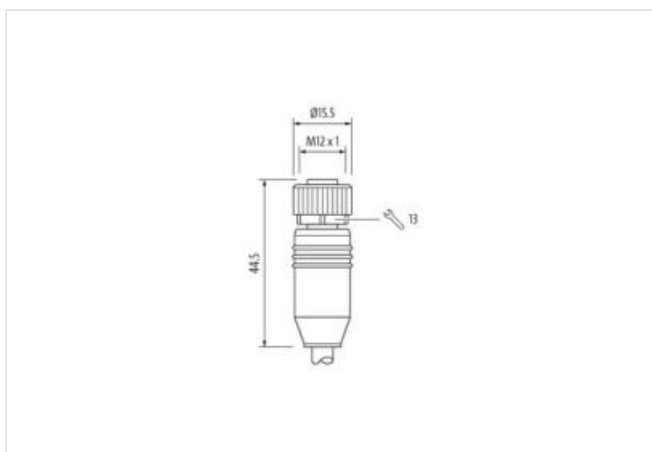
shielded

Transmission properties with channel transmission up to 100 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                        | 30,5 m            |
| Side 1                              |                   |
| Tightening torque                   | 0,6 Nm            |
| Mounting method                     | inserted, screwed |
| Family construction form            | M12               |
| Thread                              | M12 x 1           |
| Coding                              | D                 |
| Material                            | PUR               |
| No. of poles                        | 4                 |
| Width across flats                  | SW13              |
| Degree of protection (EN IEC 60529) | IP67              |
| Side 2                              |                   |
| Mounting method                     | pluggable         |
| Family construction form            | RJ45              |
| Material                            | PUR               |
| No. of poles                        | 4                 |
| Degree of protection (EN IEC 60529) | IP20              |
| 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                            | EC002599          |
| customs tariff number               | 85444290          |
| GTIN                                | 4048879692540     |
| Packaging unit                      | 1                 |
| Electrical data   Supply            |                   |
| Operating voltage DC max.           | 60 V              |

Current operating per contact max. 1,5 A

#### Industrial communication

Transfer parameters CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1)  
 Data transmission rate max. 100 MBit/s

#### Industrial communication | Ethernet functionality

duplex Full duplex

#### Diagnostics

Status indication LED no

#### Device protection | Electrical

Pollution Degree 3  
 Rated surge voltage 1 kV  
 Material group (IEC 60664-1) I

#### Mechanical data

Contour for corrugated hose without

#### Mechanical data | Material data

Coating locking Nickeled  
 Material gasket FKM  
 Locking material 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 **Attention:** 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 796  
 Jacket Color green  
 Type of Certificate cURus  
 Amount stranding 1  
 Stranding 4 wires around Core filler twisted  
 Cable shielding (type) copper braid, tinned  
 Cable shielding (coverage) 85 %  
 Banding Fleece, Foil  
 Filler yes  
 wire arrangement white, yellow, blue, orange  
 Cable weight 69,3 g/m  
 Material jacket PUR  
 Shore hardness jacket 89 Shore A  
 Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  
 Outer-diameter (jacket) 6,7 mm  
 Tolerance outer diameter (sheath) ± 5 %  
 Material inner jacket FRNC  
 Color (inner jacket) natur  
 Material wire insulation PE

|   |  |
|---|--|
| Amount wires                                      | 4  |
| Outer diameter insulation                         | 1,4 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                          | 22 AWG   |
| Conductor crosssection (wire)                     | 22 AWG   |
| Material conductor wire                           | Stranded copper wire, bare                           |
| Traversing distance (C-track)                     | 5 m @ 25 °C  |
| Travel speed (C-track)                            | 3 Mio. @ 25 °C                                       |
| Travel speed (C-track)                            | 3,3 m/s @ 25 °C                                      |
| Nominal voltage AC max.                           | 300 V  |
| Current load capacity (standard)                  | to DIN VDE 0298-4                                    |
| Current load capacity min. wire                   | 4,8 A  |
| Characteristic impedance                          | 100 Ω ± 15 % @ 100 MHz                               |
| Electrical resistance line constant wire          | 55 Ω/km @ 20 °C                                      |
| AC withstand voltage (wire - wire)                | 2 kV @ 60 s  |
| Electrical capacity line constant (wire - wire)   | 50000 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 § 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 |
| Bending radius (fixed)                            | 5 x Outer diameter                                   |
| Bending radius (dynamic)                          | 12 x Outer diameter                                  |
| No. of torsion cycles                             | 1 Mio. 25 °C   |
| Torsion stress                                    | ± 180 °/m  |