

**M12 male 90° D-cod. with cable shielded**

PUR 1x4xAWG22 shielded gn UL/CSA+drag ch. 30m

Ethernet CAT5

Male 90°

M12, 4-pole

D-coded

shielded

Transmission properties with channel transmission up to 100 m

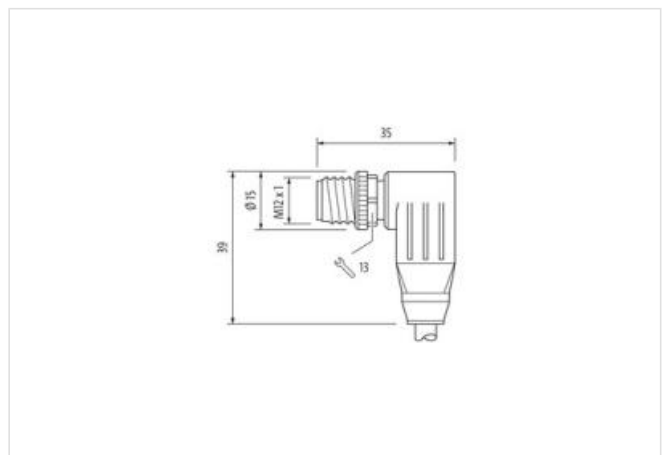
Further cable lengths on request.

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 m

|                                                          |                                                  |
|----------------------------------------------------------|--------------------------------------------------|
| <b>Side 1</b>                                            |                                                  |
| Tightening torque                                        | 0,6 Nm                                           |
| Mounting method                                          | inserted, screwed                                |
| Family construction form                                 | M12                                              |
| Thread                                                   | M12 x 1                                          |
| Coding                                                   | D                                                |
| Material                                                 | PUR                                              |
| Width across flats                                       | SW13                                             |
| Degree of protection (EN IEC 60529)                      | IP65, IP66K, IP67                                |
| <b>Side 2</b>                                            |                                                  |
| Stripping length (jacket)                                | 20 mm                                            |
| <b>Commercial data</b>                                   |                                                  |
| 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                                                     | 4048879588713                                    |
| Packaging unit                                           | 1                                                |
| <b>Electrical data   Supply</b>                          |                                                  |
| Operating voltage DC max.                                | 60 V                                             |
| Current operating per contact max.                       | 1,5 A                                            |
| <b>Industrial communication</b>                          |                                                  |
| Transfer parameters                                      | CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1) |
| Data transmission rate max.                              | 100 MBit/s                                       |
| <b>Industrial communication   Ethernet functionality</b> |                                                  |
| duplex                                                   | Full duplex                                      |
| <b>Installation   Connection</b>                         |                                                  |
| Stripping length (jacket)                                | 20 mm                                            |
| 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                                          | Nickeled                                         |
| 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                                     |
| <b>Conformity</b>                                       |                                                                |
| Product standard                                        | DIN EN 61076-2-101 (M12)                                       |
| <b>Installation   Cable</b>                             |                                                                |
| 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                                    |
| No. of bending cycles (C-track)                         | 3 Mio. @ 25 °C                                                 |
| 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                                                    |
| 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                                                |
| Loop resistance                                         | 5000 MΩ × km                                                   |
| Nominal voltage power AC max.                           | 300 V                                                          |
| Electrical capacity line constant (wire - wire) (power) | 50000 pF/km                                                    |
| 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                                                          |
| 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                                            |