

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

PUR 1x4xAWG22 shielded gn UL/CSA+drag ch. 17m

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 naar het product](#)**Afbeelding**

Product van afwijken van afbeelding



Cable length

17 m

**Side 1**

|                                     |                   |
|-------------------------------------|-------------------|
| 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 |

**Side 2**

|                           |       |
|---------------------------|-------|
| Stripping length (jacket) | 20 mm |
|---------------------------|-------|

**Commerciële gegevens**

|                      |               |
|----------------------|---------------|
| 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      |
| Douane tarief nummer | 85444290      |
| GTIN                 | 4048879693479 |
| Verpakkingseenheid   | 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 |
|--------|-------------|

**Installation | Connection**

|                           |         |
|---------------------------|---------|
| Stripping length (jacket) | 20 mm   |
| 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 |

#### 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 61076-2-101 (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                                            |