

**M12 fem. recept. D-cod. rear/RJ45 male 0° shielded**

PUR 1x4xAWG22 shielded gn UL/CSA+drag ch. 2m

Product fulfills requirements according to UN/ECE R118

Ethernet CAT5

Plastic housings with good resistance against chemicals and oils.

Flange female straight – male straight

M12 – RJ45, 4-pole

D-coded

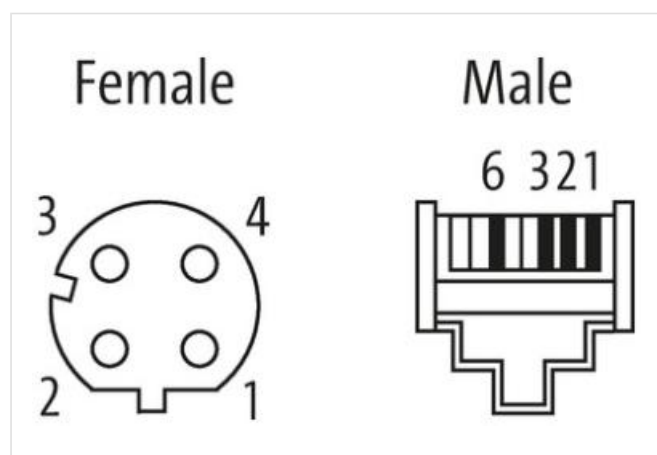
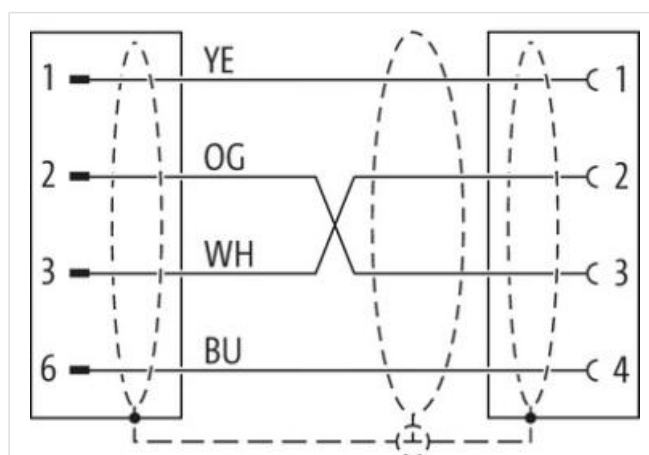
shielded

8-pole partly used

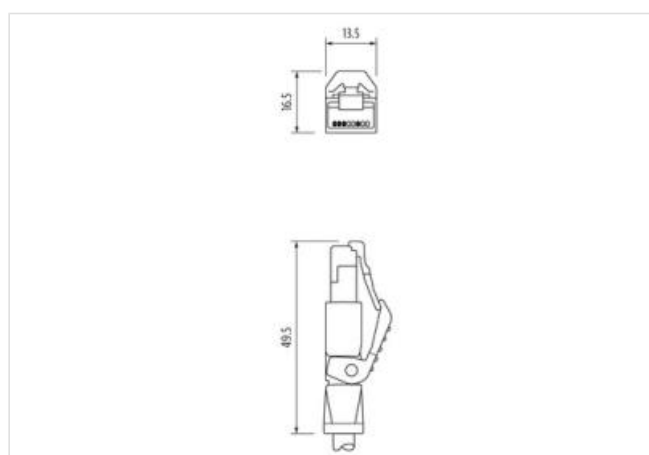
Rear mounting

Transmission properties with channel transmission up to 100 m

Further cable lengths on request.

**Odkaz k produktu****Obrázky**

Výrobok sa môže líšiť od zobrazenia



Cable length 2 m

#### Side 1

|                                           |         |
|-------------------------------------------|---------|
| Tightening torque                         | 0,6 Nm  |
| Family construction form                  | M12     |
| Thread                                    | M12 x 1 |
| suitable for corrugated tube (internal Ø) | 10 mm   |
| Coding                                    | D       |
| Material                                  | PUR     |
| Degree of protection (EN IEC 60529)       | IP67    |

#### Side 2

|                                     |               |
|-------------------------------------|---------------|
| Coating head                        | nickel plated |
| Family construction form            | RJ45          |
| Material                            | Brass         |
| Degree of protection (EN IEC 60529) | IP20          |

#### Commercial data

|                       |               |
|-----------------------|---------------|
| ECLASS-6.0            | 27061801      |
| ECLASS-6.1            | 27279220      |
| ECLASS-7.0            | 27440103      |
| ECLASS-8.0            | 27440103      |
| ECLASS-9.0            | 27440103      |
| ECLASS-10.1           | 27440103      |
| ECLASS-11.1           | 27440103      |
| ECLASS-12.0           | 27440103      |
| ETIM-5.0              | EC002599      |
| customs tariff number | 85444290      |
| GTIN                  | 4048879719896 |
| Packaging unit        | 1             |

#### Electrical data | Supply

|                                       |       |
|---------------------------------------|-------|
| Operating voltage DC max.             | 60 V  |
| Operating voltage DC max. (UL-listed) | 30 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

|                          |           |
|--------------------------|-----------|
| Mounting set             | M16 x 1.5 |
| Family construction form | M12       |
| Width across flats       | SW19      |

#### Device protection | Electrical

|                              |          |
|------------------------------|----------|
| Protection NEMA              | 3, 4, 6P |
| Pollution Degree             | 3        |
| Rated surge voltage          | 1 kV     |
| Material group (IEC 60664-1) | I        |

#### Mechanical data | Material data

|                  |               |
|------------------|---------------|
| Coating locking  | nickel plated |
| Locking material | Brass         |

#### Mechanical data | Mounting data

|                 |                   |
|-----------------|-------------------|
| Mounting method | inserted, screwed |
|-----------------|-------------------|

| 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)                                                                                                                              |
| Approvals                                       |                                                                                                                                                       |
| UL 50E                                          | yes                                                                                                                                                   |
| 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                                                                                                                           |
| Traversing distance (C-track)                   | 5 m @ 25 °C                                                                                                                                           |
| Travel speed (C-track)                          | 3 Mio. @ 25 °C                                                                                                                                        |
| Cable weight                                    | 69,3 g/m                                                                                                                                              |
| Travel speed (C-track)                          | 3,3 m/s @ 25 °C                                                                                                                                       |
| 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                                                                                                                            |
| Loop resistance                                 | 5000 MΩ × km                                                                                                                                          |
| 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                                          |
| 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                                            |