

**M12 male 0° D-cod./RJ45 Push Pull 0° shielded AIDA**

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

Ethernet CAT5e

Product fulfills requirements according to UN/ECE R118

Male straight – male straight

M12 – RJ45PP, 4-pole

Push Pull

D-coded

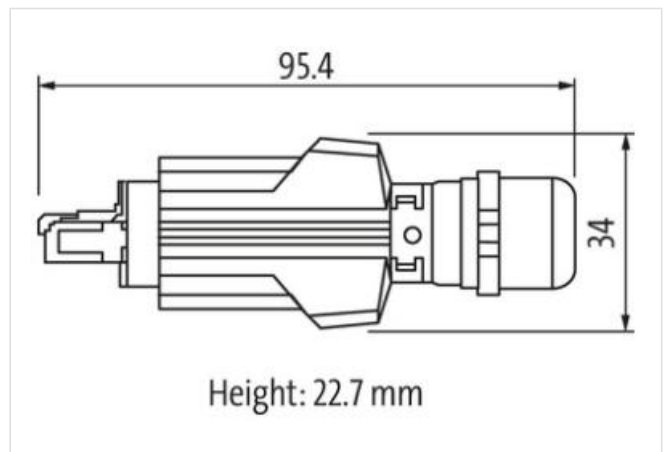
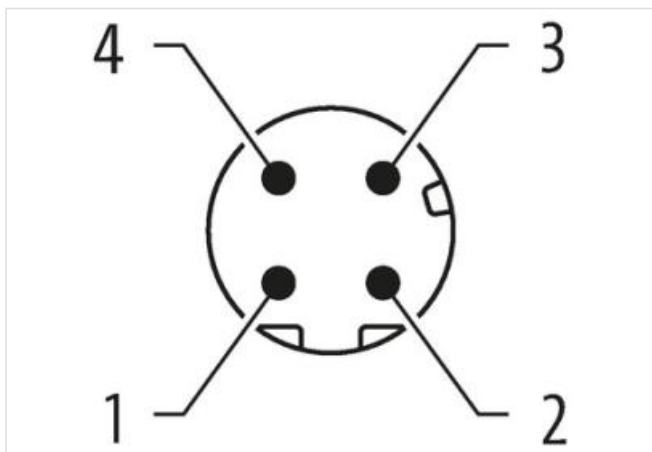
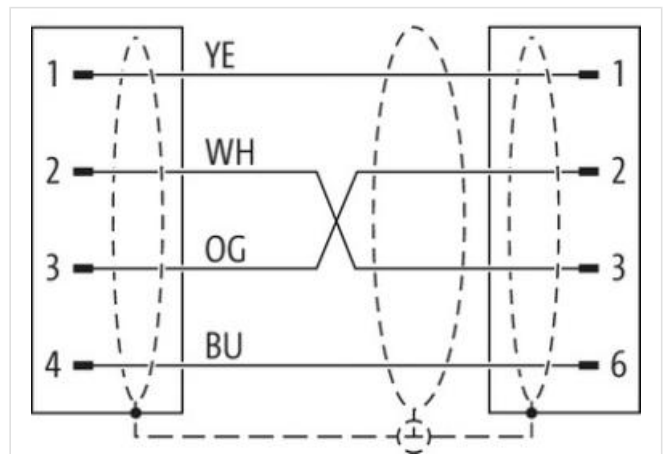
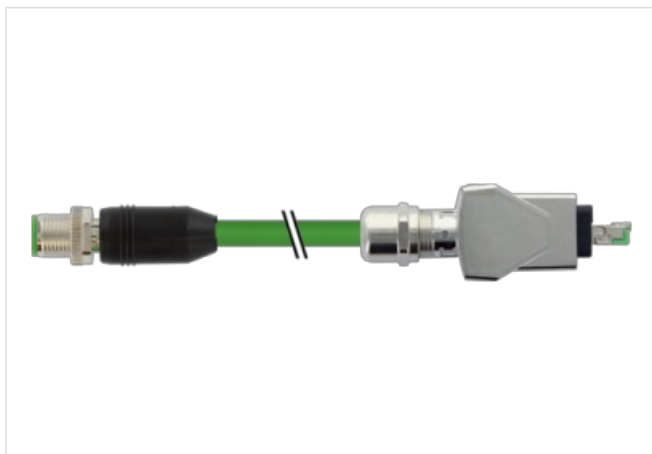
shielded

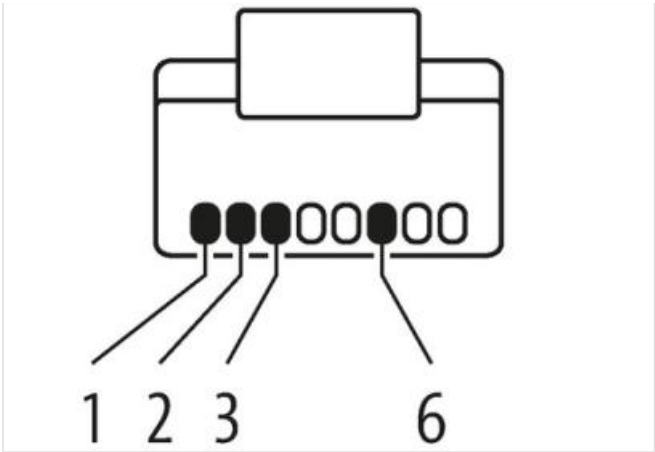
8-pole partly used

Transmission properties with channel transmission up to 100 m

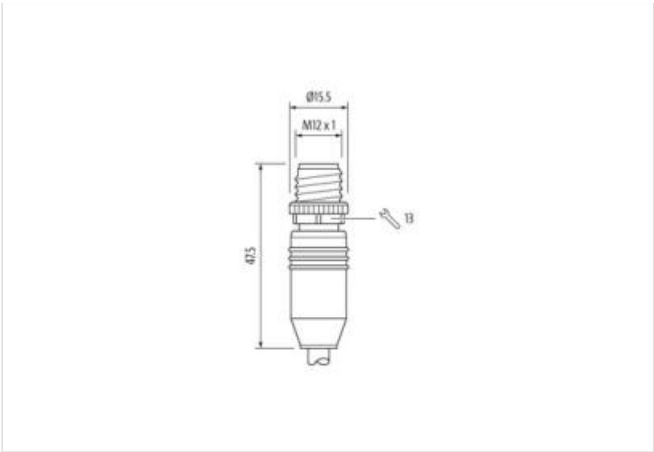
Further cable lengths on request.

Plastic housings with good resistance against chemicals and oils.

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



Product may differ from Image



|                                     |                   |
|-------------------------------------|-------------------|
| Cable length                        | 1 m               |
| Side 1                              |                   |
| Tightening torque                   | 0,6 Nm            |
| 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                              |                   |
| Coating head                        | nickel plated     |
| Family construction form            | RJ45              |
| Material                            | Zinc die-casting  |
| 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                                | 4065909000977     |
| Packaging unit                      | 1                 |
| Electrical data   Supply            |                   |
| Operating voltage DC max.           | 60 V              |
| Current operating per contact max.  | 1,5 A             |
| Industrial communication            |                   |

|                                                 |                                                                                                                                                       |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Transfer parameters                             | CAT5e, Class D (ISO/IEC 11801)                                                                                                                        |
| Data transmission rate max.                     | 100 MBit/s                                                                                                                                            |
| <b>Device protection   Electrical</b>           |                                                                                                                                                       |
| Pollution Degree                                | 3                                                                                                                                                     |
| Rated surge voltage                             | 1 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                                                                                                                                              |
| 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.                      | 70 °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 61076-2-101 (M12), IEC 60603-7 (RJ45)                                                                                                          |
| <b>Installation   Cable</b>                     |                                                                                                                                                       |
| wire arrangement                                | white, yellow, blue, orange                                                                                                                           |
| 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                           |
| 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 $\Omega \pm 15\%$ @ 100 MHz                      |
| Electrical resistance line constant wire          | 55 $\Omega/\text{km}$ @ 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                                          |
| Isolation resistance                              | 5000 M $\Omega \times \text{km}$                     |
| 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 bending cycles (C-track)                   | 3 Mio. @ 25 °C                                       |
| Traversing distance (C-track)                     | 5 m @ 25 °C                                          |
| Travel speed (C-track)                            | 3,3 m/s @ 25 °C                                      |
| No. of torsion cycles                             | 1 Mio. 25 °C                                         |
| Torsion stress                                    | $\pm 180$ °/m                                        |