

M12 male 90° D-cod. / RJ45 0° shielded

PUR 1x4xAWG22 shielded bk UL/CSA+drag ch. 1.7m

Ethernet CAT5

The resistance to aggressive media should be individually tested for your application. Further details on request.

Male 90° – male straight

M12 – RJ45, 4-pole

D-coded

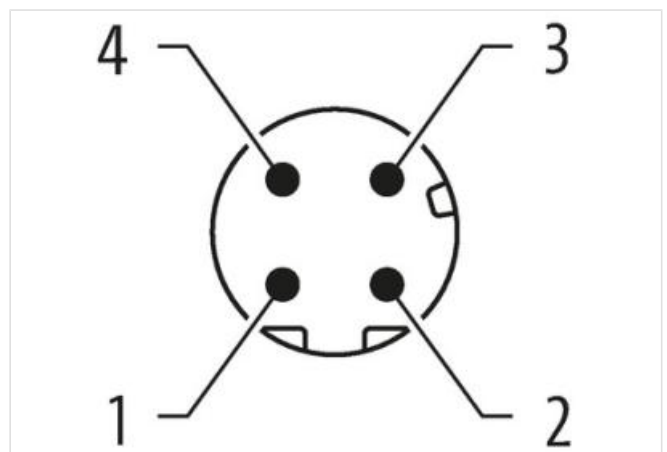
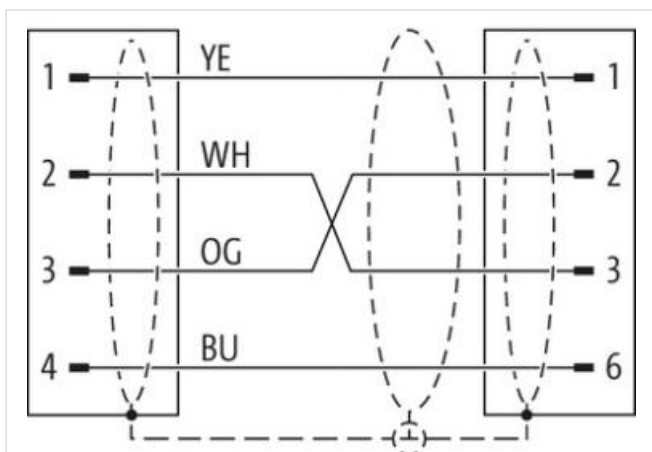
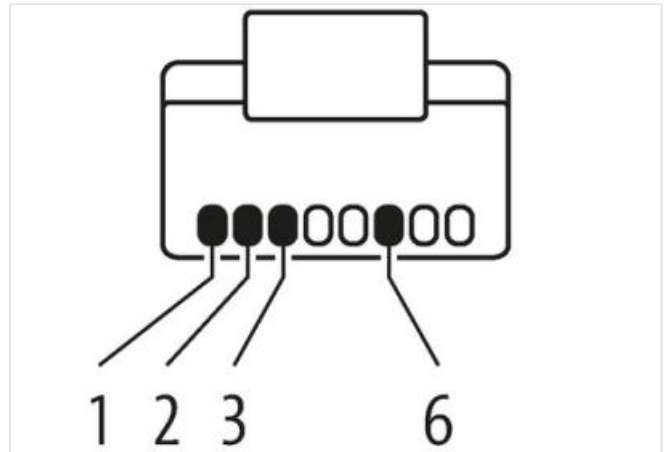
shielded

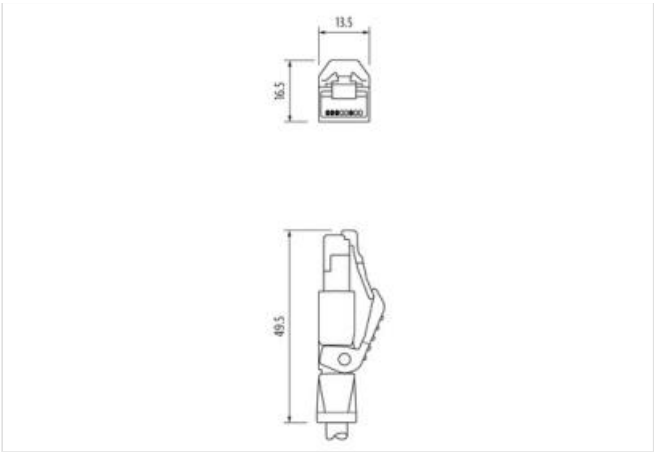
8-pole partly used

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 | 1,7 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) | IP67 |
| Side 2 | |
| Family construction form | RJ45 |
| Material | PUR |
| 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 | 4048879691369 |
| 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) |
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|-----------------------------|------------|
| Data transmission rate max. | 100 MBit/s |
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Industrial communication | Ethernet functionality

| | |
|--------|-------------|
| duplex | Full duplex |
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Device protection | Electrical

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| Pollution Degree | 3 |
|------------------|---|

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| Rated surge voltage | 1 kV |
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|------------------------------|---|
| Material group (IEC 60664-1) | I |
|------------------------------|---|

Mechanical data

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|-----------------------------|---------|
| Contour for corrugated hose | without |
|-----------------------------|---------|

Mechanical data | Material data

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|-----------------|----------|
| Coating locking | Nickeled |
|-----------------|----------|

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| Locking material | Zinc die-casting |
|------------------|------------------|

Mechanical data | Mounting data

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|-----------------|---------------------------------------|
| Mounting method | inserted, screwed, Shaking protection |
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Environmental characteristics | Climatic

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|----------------------------|--------|
| Operating temperature min. | -25 °C |
|----------------------------|--------|

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|----------------------------|-------|
| Operating temperature max. | 85 °C |
|----------------------------|-------|

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|--|----------------------------|
| Additional condition temperature range | depending on cable quality |
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Important installation notes

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| Note on strain relief | Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties. |
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| 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. |
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Conformity

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|------------------|--------------------------|
| Product standard | DIN EN 61076-2-101 (M12) |
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Installation | Cable

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|----------------------|-----|
| Cable identification | 851 |
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|--------------|-------|
| Jacket Color | black |
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| Type of Certificate | cURus |
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| Amount stranding | 1 |
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| Stranding | 4 wires around Core filler twisted |
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| Cable shielding (type) | copper braid, tinned |
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| Cable shielding (coverage) | 85 % |
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| Banding | Fleece, Foil |
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| Filler | yes |
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| wire arrangement | white, yellow, blue, orange |
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| Traversing distance (C-track) | 5 m @ 25 °C |
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| Cable weight | 69,3 g/m |
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| Material jacket | PUR |
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| Shore hardness jacket | 89 Shore A |
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| Freedom from ingredients (jacket) | lead-free, cadmium-free, CFC-free, halogen-free, silicone-free |
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| Outer-diameter (jacket) | 6,7 mm |
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| Tolerance outer diameter (sheath) | ± 5 % |
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| Material inner jacket | FRNC |
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| Color (inner jacket) | natur |
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| Material wire insulation | PE |
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| Amount wires | 4 |
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| Outer diameter insulation | 1,4 mm |
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| Outer diameter tolerance core insulation | ± 5 % |
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| Shore hardness wire insulation | 65 Shore D |
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| Ingredient freeness wire insulation | lead-free, CFC-free, halogen-free |
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| Amount strands (wire) | 7 |
| Diameter of single wires | 22 AWG |
| Conductor crossection (wire) | 22 AWG |
| Material conductor wire | Stranded copper wire, bare |
| Loop resistance | 5000 M Ω × 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 |
| UV resistance | DIN EN ISO 4892-2 A |
| Flame resistance | UL 1581 § 1090 UL 1581 § 1100 FT2 IEC 60332-2-2 |
| 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 |
| Travel speed (C-track) | 3 Mio. |
| No. of torsion cycles | 1 Mio. |
| Torsion stress | ± 180 °/m |