

Basic features

| | |
|----------------------------|---------------------|
| Application | Ethernet, CAT 6A |
| Approval/Conformity | CE cULus WEEE |

Electrical connection

| | |
|--------------------------------|--------------------------------------|
| Cable | PUR Shielded Green, 1 m |
| Cable diameter D | 6.20 mm ±0.20 mm |
| Cable, note | Ethernet, CAT 7 by IEC 60332-1 |
| Conductor cross-section | 26 AWG |
| Connection 1 | M12x1-Male, straight, 8-pin, X-coded |
| Connection 2 | M12x1-Male, straight, 8-pin, X-coded |
| Number of conductors | 8 |
| System | Molded/Molded |

Electrical data

| | |
|---------------------------------|----------------------------|
| Conductor construction | 4x2 twisted-pair |
| Conductor resistance | ≤ 145 Ohm/km at 20 °C |
| Coupling resistance max. | 1Ω /m at 100 MHz |
| Isolation resistance | ≥ 150 MOhm x km at 20 °C |
| Operating capacitance | nom. 46nF/km at 1kHz |
| Operating voltage Ub | 60 VDC / 50 VAC |
| Rated current (40 °C) | 0.5 A |
| Surge impedance | 100 Ohm ±22 Ohm at 100 MHz |
| Transfer rate | 10 Gbit/s |

Environmental conditions

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|--|-------------|
| Cable temperature, fixed routing | -40...85 °C |
| Cable temperature, flexible routing | -10...60 °C |
| IP rating | IP67/IP67 |

Material

| | |
|------------------------------------|---|
| Cable jacket material, note | Shielded |
| Cable jacket, material | PUR |
| Cable shield | Aluminum foil and copper braid |
| Material contact carrier | PA/PA |
| Material contacts | Brass/Brass |
| Material cover nut | Brass nickel-plated/Brass nickel-plated |
| Material grip | PUR/PUR |

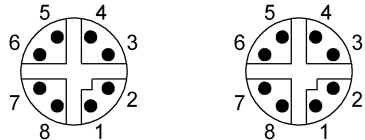
Mechanical data

| | |
|----------------------------------|---------------|
| Cable jacket, color | Green |
| Cable length L | 1.00 m |
| Tightening torque pigtail | 0.6 Nm/0.6 Nm |

Remarks

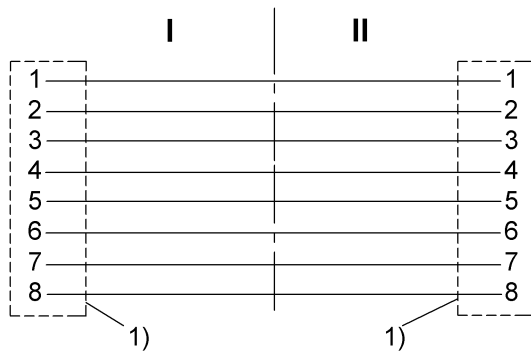
Flame resistance acc. to IEC 60332-1
 Halogen-free per IEC 60754
 Enclosure rating per IEC 60529, only in screwed state with the associated mating piece.
 360° shield on cover nut

Connector Drawings



- | | |
|---------------|---------------|
| I | II |
| PIN 1: white | PIN 1: white |
| PIN 2: orange | PIN 2: orange |
| PIN 3: white | PIN 3: white |
| PIN 4: green | PIN 4: green |
| PIN 5: white | PIN 5: white |
| PIN 6: brown | PIN 6: brown |
| PIN 7: white | PIN 7: white |
| PIN 8: blue | PIN 8: blue |

Wiring Diagrams



1) Shield on cover nut