

Basic features

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

Electrical connection

| | |
|-------------------------------------|--------------------------------------|
| Bending radius min., fixed cable | 4 x D |
| Bending radius min., flexible cable | 8 x D |
| Cable | PUR Shielded Green, 20 m |
| Cable diameter D | 6.40 mm ±0.20 mm |
| Cable, bending cycles min. | 1 mil. |
| Cable, note | Ethernet, CAT 6A |
| 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 |
| Torsion stress, cable | 1 million cycles (+/-180°/m) |

Electrical data

| | |
|--------------------------------|----------------------------|
| Cable rated voltage AC max. | 300 V |
| Cable rated voltage DC max. | 300 V |
| Conductor construction | 4x2 twisted-pair |
| Conductor resistance | ≤ 140 Ohm/km at 20 °C |
| Isolation resistance | ≥ 150 MOhm x km at 20 °C |
| Operating capacitance | nom. 46nF/km at 1kHz |
| Operating voltage Ub | 60 VDC / 48 VAC |
| Operating voltage max. AC (UL) | 30 V |
| Operating voltage max. DC (UL) | 60 V |
| Rated current (40 °C) | 0.5 A |
| Surge impedance | 100 Ohm ±22 Ohm at 100 MHz |

Environmental conditions

| | |
|-------------------------------------|-------------|
| Cable temperature, fixed routing | -40...80 °C |
| Cable temperature, flexible routing | -30...80 °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 | TPU |
| Material contacts | Brass, gold plated/Brass, gold plated |
| Material cover nut | Nickel plated zinc/Nickel plated zinc |
| Material grip | TPU |

Mechanical data

Cable jacket, color Green

Cable length L

20.00 m

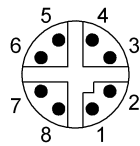
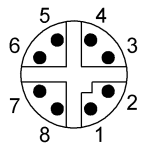
Tightening torque pigtail

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



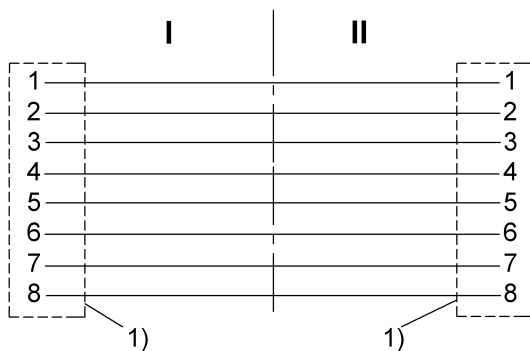
I

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

II

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

Wiring Diagrams (Schematic)



1) Shield on cover nut