

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, 15 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

15.00 m

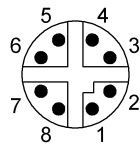
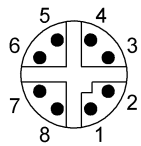
Tightening torque pigtail

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



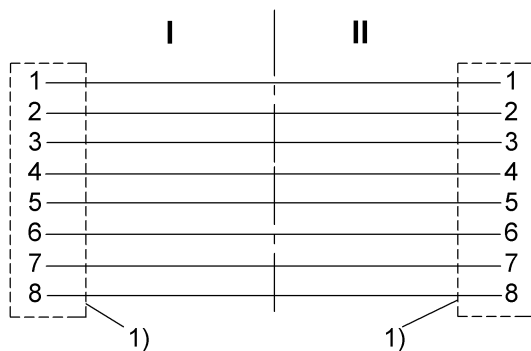
I

- 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