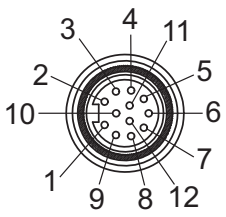
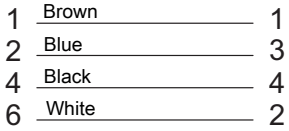
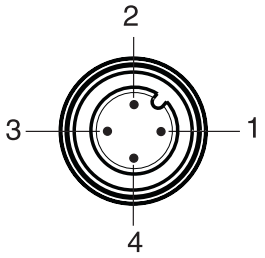
Adapter M12 12p-M12 4p

Connector pin assignment



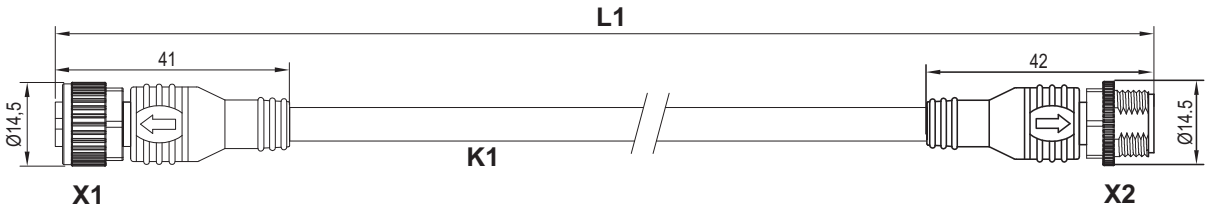
Plan view of plug-in connector X1





Plan view of plug-in connector X2

Dimensions



Technical details

General	
Certifications	**CE, UKCA**
Electrical data	
Rated voltage	
Voltage UB	**30 V**
Rated current	**1,5 A**
Test voltage	**2.000 V**
Typ. conductor resistance K1	**max. 100 Ohm/km (20 °C)**
Insulation resistance	**100 MOhm**
Environmental data	
Ambient temperature	
Temperature range	**-40 - 80 °C**
Temperature range (moving)	**-25 - 80 °C**
Airgap creepage	
Pollution degree	**3**

Adapter M12 12p-M12 4p

Environmental data	
Protection type	
X1 when inserted	**IP67 when screwed in place**
X2 when inserted	**IP67 when screwed in place**
Mechanical data	
Plug-in connector X1	**M12, 12-pin female connector**
In accordance with the standard	**EN 61076-2-101**
Form, plug-in connector X1	**Straight**
Coding of plug-in connector X1	**A-coded**
Plug-in connector X2	**M12, 4-pin male connector**
In accordance with the standard	**EN 61076-2-101**
Form, plug-in connector X2	**Straight**
Coding of plug-in connector X2	**A-coded**
Material of ring nut X1	**Zn nickel-plated**
Material of ring nut X2	**Zn nickel-plated**
Housing material X1	**TPU**
Housing material X2	**TPU**
Material of contact surface X1	**CuZn, Ni b/Au 0.2 gal.**
Material of contact surface X2	**CuZn, Ni b/Au 0.2 gal.**
Material of gasket	**FKM**
Material of socket	**CuSn**
Conductor material K1	**Cu**
Insulating cover for conductor K1	**XLPE**
Mating cycles X1	**500**
Mating cycles X2	**500**
Cable type K1	**LiF9Y11Y**
Cable length L1	**0,25 m**
Colour of external cable insulation K1	**Signal yellow, RAL1003**
Colour of housing	**black**
Cable insulation material K1	**PUR**
Drag chain suitable K1	**yes**
Min. bending radius (fixed permanently) K1	**5 x Ø**
Min. bending radius (moving) K1	**10 x Ø**
Bending cycles cable K1	**5.000.000**
Cable diameter K1	**4,9 mm**
Max. cable diameter K1	**5 mm**
Conductor cross section K1	**0,25 mm²**
Conductor cross section AWG K1	**24**
Wire colour K1	**Blue, black, brown, white**
Shielding K1	**No**
No. of wires K1	**4**

Adapter M12 12p-M12 4p

Mechanical data	
Certification cable K1	**UL AWM-Style 20233, UL/CSA**
Certification plug-in connector X1	**UL 94 HB**
Certification plug-in connector X2	**UL 94 HB**
Halogen-free	**yes**
Silicone-free	**No**
Oil resistance	**Resistant**
Non-flammability	**CSA FT-2, UL VW1**
Torque of the interlock screw	**0.4 Nm**
Dimensions	
Height	**155 mm**
Width	**90 mm**
Depth	**5 mm**
Weight	**22 g**

Order reference

Product type	Features	Connector X1	Connector X2	Connector X3	Order no.
Adapter/OP/ M12-12SF/ M12-4SMX/XX-XXXX/PT	0.25 m	M12, 12-pin female connector, straight	M12, 4-pin male connector, straight		C1000057