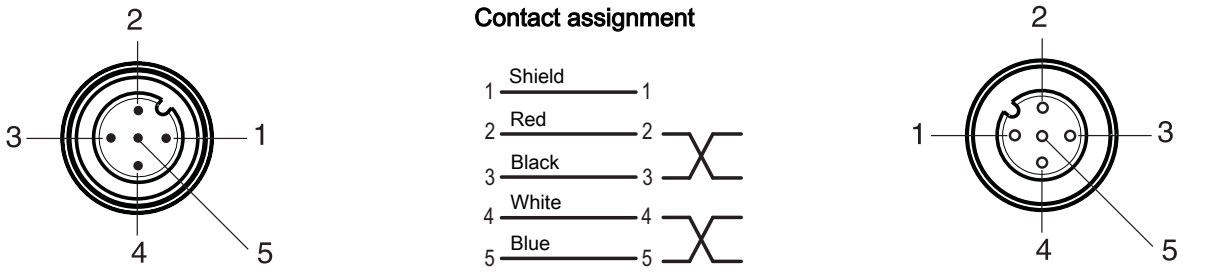
Cable CAN M12-M12 5p

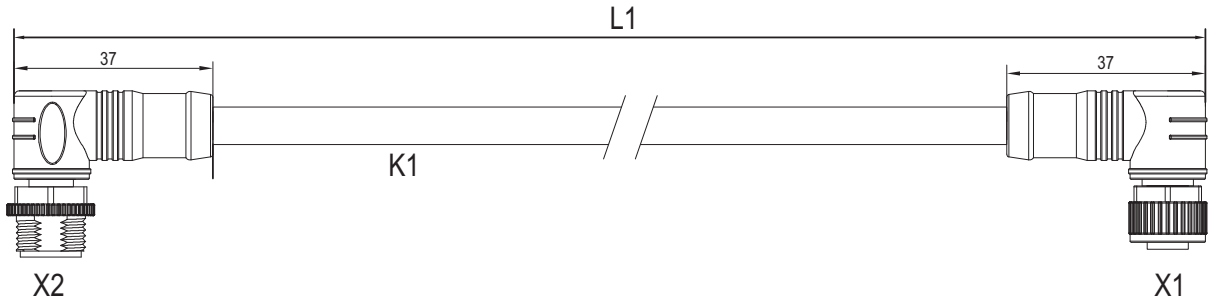
Connector pin assignment



Plan view of plug-in connector X2

Plan view of plug-in connector X1

Dimensions



Technical details

General	C1000047	C1000048	C1000049	C1000050
Certifications	CE, UKCA, cULus Listed	CE, UKCA, cULus Listed	CE, UKCA, cULus Listed	CE, UKCA, cULus Listed
Electrical data	**C1000047**	**C1000048**	**C1000049**	**C1000050**
Rated voltage				
Voltage UB	30 V	30 V	30 V	30 V
Rated current	4 A	4 A	4 A	4 A
Typ. conductor resistance data conductor cable K1	≤ 87.5 Ohm/km at 20 °C	≤ 87.5 Ohm/km at 20 °C	≤ 87.5 Ohm/km at 20 °C	≤ 87.5 Ohm/km at 20 °C
Typ. conductor resistance supply conductor cable K1	≤ 43.6 Ohm/km at 20 °C	≤ 43.6 Ohm/km at 20 °C	≤ 43.6 Ohm/km at 20 °C	≤ 43.6 Ohm/km at 20 °C

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Electrical data	C1000047	C1000048	C1000049	C1000050
Cable insulation resistance K1	> 2.5 MOhm/kft	> 2.5 MOhm/kft	> 2.5 MOhm/kft	> 2.5 MOhm/kft
Characteristic impedance K1	120 Ohm ± 15 Ohm	120 Ohm ± 15 Ohm	120 Ohm ± 15 Ohm	120 Ohm ± 15 Ohm
Environmental data	**C1000047**	**C1000048**	**C1000049**	**C1000050**
Ambient temperature				
Temperature range	-40 - 80 °C	-40 - 80 °C	-40 - 80 °C	-40 - 80 °C
Temperature range (moving)	-25 - 80 °C	-25 - 80 °C	-25 - 80 °C	-25 - 80 °C
Airgap creepage				
Pollution degree	3	3	3	3
Protection type				
X1 when inserted	IP67, IP69K when screwed in place	IP67, IP69K when screwed in place	IP67, IP69K when screwed in place	IP67, IP69K when screwed in place
X2 when inserted	IP67, IP69K when screwed in place	IP67, IP69K when screwed in place	IP67, IP69K when screwed in place	IP67, IP69K when screwed in place
Mechanical data	**C1000047**	**C1000048**	**C1000049**	**C1000050**
Plug-in connector X1	M12, 5-pin female connector	M12, 5-pin female connector	M12, 5-pin female connector	M12, 5-pin female connector
In accordance with the standard	EN 61076-2-101	EN 61076-2-101	EN 61076-2-101	EN 61076-2-101
Form, plug-in connector X1	Angled	Angled	Angled	Angled
Coding of plug-in connector X1	A-coded	A-coded	A-coded	A-coded
Plug-in connector X2	M12, 5-pin male connector	M12, 5-pin male connector	M12, 5-pin male connector	M12, 5-pin male connector
In accordance with the standard	EN 61076-2-101	EN 61076-2-101	EN 61076-2-101	EN 61076-2-101
Form, plug-in connector X2	Angled	Angled	Angled	Angled
Coding of plug-in connector X2	A-coded	A-coded	A-coded	A-coded
Material of ring nut X1	CuZn nickel-plated	CuZn nickel-plated	CuZn nickel-plated	CuZn nickel-plated
Material of ring nut X2	CuZn nickel-plated	CuZn nickel-plated	CuZn nickel-plated	CuZn nickel-plated
Housing material X1	TPU	TPU	TPU	TPU
Housing material X2	TPU	TPU	TPU	TPU
Material of contact surface X1	CuZn, Ni b/Au 0.2 gal.	CuZn, Ni b/Au 0.2 gal.	CuZn, Ni b/Au 0.2 gal.	CuZn, Ni b/Au 0.2 gal.

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Mechanical data	C1000047	C1000048	C1000049	C1000050
Material of contact surface X2	**CuZn, Ni b/Au 0.2 gal.**	**CuZn, Ni b/Au 0.2 gal.**	**CuZn, Ni b/Au 0.2 gal.**	**CuZn, Ni b/Au 0.2 gal.**
Material of gasket	**FKM**	**FKM**	**FKM**	**FKM**
Material of pin	**CuZn**	**CuZn**	**CuZn**	**CuZn**
Material of socket	**CuZn**	**CuZn**	**CuZn**	**CuZn**
Conductor material K1	**Cu**	**Cu**	**Cu**	**Cu**
Mating cycles X1	**100**	**100**	**100**	**100**
Mating cycles X2	**100**	**100**	**100**	**100**
Cable length L1	**3 m**	**5 m**	**10 m**	**15 m**
Material of shield surface cable K1	**Cu**	**Cu**	**Cu**	**Cu**
Colour of external cable insulation K1	**Signal yellow, RAL1003**	**Signal yellow, RAL1003**	**Signal yellow, RAL1003**	**Signal yellow, RAL1003**
Colour of housing	**black**	**black**	**black**	**black**
Cable insulation material K1	**PUR**	**PUR**	**PUR**	**PUR**
Drag chain suitable K1	**No**	**No**	**No**	**No**
Min. bending radius (fixed permanently) K1	**12 x Ø**	**12 x Ø**	**12 x Ø**	**12 x Ø**
Min. bending radius (moving) K1	**15 x Ø**	**15 x Ø**	**15 x Ø**	**15 x Ø**
Cable diameter K1	**7,5 mm**	**7,5 mm**	**7,5 mm**	**7,5 mm**
Max. cable diameter K1	**7,7 mm**	**7,7 mm**	**7,7 mm**	**7,7 mm**
Insulating cover for data conductor K1	**FM-PE**	**FM-PE**	**FM-PE**	**FM-PE**
Insulating cover for supply conductor cable K1	**HD-PE**	**HD-PE**	**HD-PE**	**HD-PE**
Conductor cross section of data conductor AWG K1	**24**	**24**	**24**	**24**
Conductor cross section of supply conductor AWG K1	**21**	**21**	**21**	**21**
Conductor cross section of shield AWG K1	**21**	**21**	**21**	**21**
Conductor cross section of data conductor K1	**0,22 mm²**	**0,22 mm²**	**0,22 mm²**	**0,22 mm²**

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Mechanical data	C1000047	C1000048	C1000049	C1000050
Conductor cross section of supply conductor K1	**0,50 mm²**	**0,50 mm²**	**0,50 mm²**	**0,50 mm²**
Conductor cross section of shield K1	**0,50 mm²**	**0,50 mm²**	**0,50 mm²**	**0,50 mm²**
Wire diameter of supply cable K1	**0,2 mm**	**0,2 mm**	**0,2 mm**	**0,2 mm**
Wire colour K1	**21 AWG: Red/ black, 24 AWG: White/blue**	**21 AWG: Red/ black, 24 AWG: White/blue**	**21 AWG: Red/ black, 24 AWG: White/blue**	**21 AWG: Red/ black, 24 AWG: White/blue**
Stranding K1	**1x2x-AWG24+Al)+(1x2x-AWG21+Al), around screening**	**1x2x-AWG24+Al)+(1x2x-AWG21+Al), around screening**	**1x2x-AWG24+Al)+(1x2x-AWG21+Al), around screening**	**1x2x-AWG24+Al)+(1x2x-AWG21+Al), around screening**
Shielding K1	**yes**	**yes**	**yes**	**yes**
Shield type K1	**Wire mesh**	**Wire mesh**	**Wire mesh**	**Wire mesh**
No. of wires K1	**5**	**5**	**5**	**5**
Certification cable K1	**CSA AWM I/II A/B, UL AWM-Style 20233**	**CSA AWM I/II A/B, UL AWM-Style 20233**	**CSA AWM I/II A/B, UL AWM-Style 20233**	**CSA AWM I/II A/B, UL AWM-Style 20233**
Halogen-free	**yes**	**yes**	**yes**	**yes**
Silicone-free	**No**	**No**	**No**	**No**
Oil resistance	**Resistant**	**Resistant**	**Resistant**	**Resistant**
Non-flammability	**UL 20233, UL FT2**	**UL 20233, UL FT2**	**UL 20233, UL FT2**	**UL 20233, UL FT2**
Torque of the inter-lock screw	**0.4 Nm**	**0.4 Nm**	**0.4 Nm**	**0.4 Nm**
Weight	**242 g**	**387 g**	**758 g**	**1.131 g**

Order reference

Product type	Features	Connector X1	Connector X2	Connector X3	Order no.
Cable/CA/ M12-5AFX/ M12-5AM/A/003/ XXXX/SH	3 m	M12, 5-pin female connector, angled	M12, 5-pin male connector, angled		C1000047
Cable/CA/ M12-5AFX/ M12-5AM/A/005/ XXXX/SH	5 m	M12, 5-pin female connector, angled	M12, 5-pin male connector, angled		C1000048
Cable/CA/ M12-5AFX/ M12-5AM/A/010/ XXXX/SH	10 m	M12, 5-pin female connector, angled	M12, 5-pin male connector, angled		C1000049

Cable CAN M12-M12 5p

Product type	Features	Connector X1	Connector X2	Connector X3	Order no.
Cable/CA/ M12-5AFX/ M12-5AM/A/015/ XXXX/SH	15 m	M12, 5-pin female connector, angled	M12, 5-pin male connector, angled		C1000050