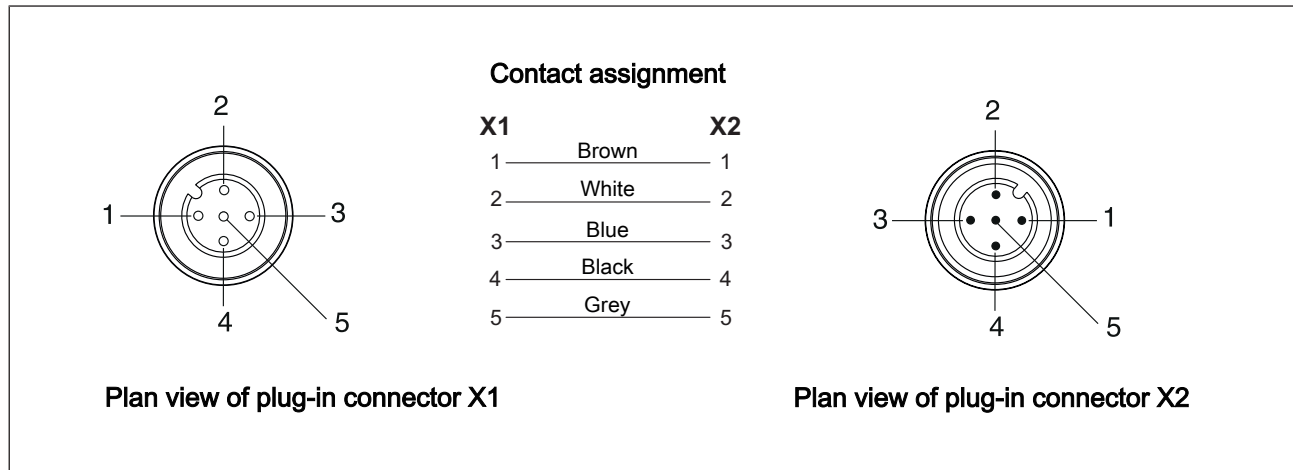


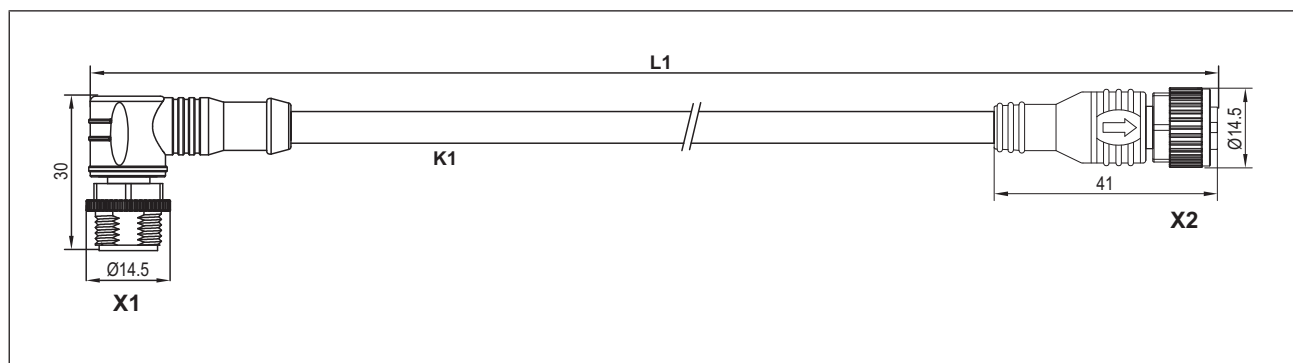
Accessories

Cable FC M12 a-M12 s 5p

Connector pin assignment



Dimensions in mm



Technical details Order no. C1000021, C1000022, C1000023

General	C1000021	C1000022	C1000023
Certifications	CE, UKCA, cULus Listed	CE, UKCA, cULus Listed	CE, UKCA, cULus Listed
Electrical data	C1000021	C1000022	C1000023
Rated voltage			
Voltage UB	30 V	30 V	30 V
Rated current	4 A	4 A	4 A
Typ. conductor resistance			
K1	≤ 55,4 Ohm/km at 20°C	≤ 55,4 Ohm/km at 20°C	≤ 55,4 Ohm/km at 20°C
Insulation resistance	100 MOhm	100 MOhm	100 MOhm
Environmental data	C1000021	C1000022	C1000023
Temperature when using in the drag chain	-30 - 85 °C	-30 - 85 °C	-30 - 85 °C

Accessories

Cable FC M12 a-M12 s 5p

Environmental data	C1000021	C1000022	C1000023
Ambient temperature			
Temperature range	-40 - 85 °C	-40 - 85 °C	-40 - 85 °C
Max. temperature in accordance with UL	80 °C	80 °C	80 °C
Airgap creepage			
Pollution degree	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
X2 when inserted	IP67, IP69K when screwed in place	IP67, IP69K when screwed in place	IP67, IP69K when screwed in place
Mechanical data	C1000021	C1000022	C1000023
Plug-in connector X1	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
Form, plug-in connector X1	Angled	Angled	Angled
Coding of plug-in connector X1	A-coded	A-coded	A-coded
Plug-in connector X2	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
Form, plug-in connector X2	Straight	Straight	Straight
Coding of plug-in connector X2	A-coded	A-coded	A-coded
Material of ring nut X1	CuZn nickel-plated	CuZn nickel-plated	CuZn nickel-plated
Material of ring nut X2	CuZn nickel-plated	CuZn nickel-plated	CuZn nickel-plated
Housing material X1	TPU	TPU	TPU
Housing material X2	TPU	TPU	TPU
Material of contact surface X1	Au	Au	Au
Material of contact surface X2	Au	Au	Au
Material of gasket	FKM	FKM	FKM
Material of pin	CuZn	CuZn	CuZn
Material of socket	CuZn	CuZn	CuZn
Conductor material K1	Cu	Cu	Cu
Insulating cover for conductor K1	PP (9Y)	PP (9Y)	PP (9Y)
Mating cycles X1	500	500	500

Accessories

Cable FC M12 a-M12 s 5p

Mechanical data	C1000021	C1000022	C1000023
Mating cycles X2	500	500	500
Cable type K1	LiF9Y11Y	LiF9Y11Y	LiF9Y11Y
Cable length L1	0,5 m	3 m	5 m
Colour of external cable insulation K1	black	black	black
Colour of housing	Yellow, similar to RAL1004	Yellow, similar to RAL1004	Yellow, similar to RAL1004
Cable insulation material K1	PUR	PUR	PUR
Drag chain suitable K1	yes	yes	yes
Min. bending radius (fixed permanently) K1	8 x Ø	8 x Ø	8 x Ø
Min. bending radius (moving) K1	12 x Ø	12 x Ø	12 x Ø
Max. traverse path K1	1 m	1 m	1 m
Bending cycles cable K1	5.000.000	5.000.000	5.000.000
Max. traverse speed K1	3 m/s	3 m/s	3 m/s
Cable diameter K1	5,3 mm	5,3 mm	5,3 mm
Max. cable diameter K1	5,5 mm	5,5 mm	5,5 mm
Conductor cross section K1	0,34 mm ²	0,34 mm ²	0,34 mm ²
Conductor cross section AWG K1	22	22	22
Wire colour K1	Brown, white, blue, black, grey	Brown, white, blue, black, grey	Brown, white, blue, black, grey
Stranding K1	5 cores around filler	5 cores around filler	5 cores around filler
Shielding K1	No	No	No
No. of wires K1	5	5	5
Certification cable K1	UL AWM-Style 20233	UL AWM-Style 20233	UL AWM-Style 20233
Certification plug-in connector X1	UL94 V-2	UL94 V-2	UL94 V-2
Certification plug-in connector X2	UL94 V-2	UL94 V-2	UL94 V-2
Halogen-free	yes	yes	yes
Silicone-free	No	No	No
Oil resistance	Resistant	Resistant	Resistant
Non-flammability	DIN EN 60332-1-2, FT2, UL 20233	DIN EN 60332-1-2, FT2, UL 20233	DIN EN 60332-1-2, FT2, UL 20233
Torque of the interlock screw	0.4 Nm	0.4 Nm	0.4 Nm
Weight	36 g	126 g	198 g

Accessories

Cable FC M12 a-M12 s 5p

Technical details Order no. C1000024, C1000025, C1000026

General	C1000024	C1000025	C1000026
Certifications	CE, UKCA, cULus Listed	CE, UKCA, cULus Listed	CE, UKCA, cULus Listed
Electrical data	C1000024	C1000025	C1000026
Rated voltage			
Voltage UB	30 V	30 V	30 V
Rated current	4 A	4 A	4 A
Typ. conductor resistance K1	≤ 55,4 Ohm/km at 20°C	≤ 55,4 Ohm/km at 20°C	≤ 55,4 Ohm/km at 20°C
Insulation resistance	100 MOhm	100 MOhm	100 MOhm
Environmental data	C1000024	C1000025	C1000026
Temperature when using in the drag chain	-30 - 85 °C	-30 - 85 °C	-30 - 85 °C
Ambient temperature			
Temperature range	-40 - 85 °C	-40 - 85 °C	-40 - 85 °C
Max. temperature in accordance with UL	80 °C	80 °C	80 °C
Airgap creepage			
Pollution degree	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
X2 when inserted	IP67, IP69K when screwed in place	IP67, IP69K when screwed in place	IP67, IP69K when screwed in place
Mechanical data	C1000024	C1000025	C1000026
Plug-in connector X1	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
Form, plug-in connector X1	Angled	Angled	Angled
Coding of plug-in connector X1	A-coded	A-coded	A-coded
Plug-in connector X2	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
Form, plug-in connector X2	Straight	Straight	Straight
Coding of plug-in connector X2	A-coded	A-coded	A-coded
Material of ring nut X1	CuZn nickel-plated	CuZn nickel-plated	CuZn nickel-plated
Material of ring nut X2	CuZn nickel-plated	CuZn nickel-plated	CuZn nickel-plated

Accessories

Cable FC M12 a-M12 s 5p

Mechanical data	C1000024	C1000025	C1000026
Housing material X1	TPU	TPU	TPU
Housing material X2	TPU	TPU	TPU
Material of contact surface X1	Au	Au	Au
Material of contact surface X2	Au	Au	Au
Material of gasket	FKM	FKM	FKM
Material of pin	CuZn	CuZn	CuZn
Material of socket	CuZn	CuZn	CuZn
Conductor material K1	Cu	Cu	Cu
Insulating cover for conductor K1	PP (9Y)	PP (9Y)	PP (9Y)
Mating cycles X1	500	500	500
Mating cycles X2	500	500	500
Cable type K1	LiF9Y11Y	LiF9Y11Y	LiF9Y11Y
Cable length L1	10 m	20 m	30 m
Colour of external cable insulation K1	black	black	black
Colour of housing	Yellow, similar to RAL1004	Yellow, similar to RAL1004	Yellow, similar to RAL1004
Cable insulation material K1	PUR	PUR	PUR
Drag chain suitable K1	yes	yes	yes
Min. bending radius (fixed permanently) K1	8 x Ø	8 x Ø	8 x Ø
Min. bending radius (moving) K1	12 x Ø	12 x Ø	12 x Ø
Max. traverse path K1	1 m	1 m	1 m
Bending cycles cable K1	5.000.000	5.000.000	5.000.000
Max. traverse speed K1	3 m/s	3 m/s	3 m/s
Cable diameter K1	5,3 mm	5,3 mm	5,3 mm
Max. cable diameter K1	5,5 mm	5,5 mm	5,5 mm
Conductor cross section K1	0,34 mm ²	0,34 mm ²	0,34 mm ²
Conductor cross section AWG K1	22	22	22
Wire colour K1	Brown, white, blue, black, grey	Brown, white, blue, black, grey	Brown, white, blue, black, grey
Stranding K1	5 cores around filler	5 cores around filler	5 cores around filler
Shielding K1	No	No	No
No. of wires K1	5	5	5
Certification cable K1	UL AWM-Style 20233	UL AWM-Style 20233	UL AWM-Style 20233

Accessories

Cable FC M12 a-M12 s 5p

Mechanical data	C1000024	C1000025	C1000026
Certification plug-in connector X1	UL94 V-2	UL94 V-2	UL94 V-2
Certification plug-in connector X2	UL94 V-2	UL94 V-2	UL94 V-2
Halogen-free	yes	yes	yes
Silicone-free	No	No	No
Oil resistance	Resistant	Resistant	Resistant
Non-flammability	DIN EN 60332-1-2, FT2, UL 20233	DIN EN 60332-1-2, FT2, UL 20233	DIN EN 60332-1-2, FT2, UL 20233
Torque of the interlock screw	0.4 Nm	0.4 Nm	0.4 Nm
Weight	383 g	746 g	1.100 g

Order reference

Product type	Features	Connector X1	Connector X2	Connector X3	Order no.
Cable/FC/ M12-5AMX/ M12-5SFX/ A/0.5/0Q34/BK	0.5 m	M12, 5-pin male con- nector, angled	M12, 5-pin fe- male con- nector, straight		C1000021
Cable/FC/ M12-5AMX/ M12-5SFX/ A/003/0Q34/BK	3 m	M12, 5-pin male con- nector, angled	M12, 5-pin fe- male con- nector, straight		C1000022
Cable/FC/ M12-5AMX/ M12-5SFX/ A/005/0Q34/BK	5 m	M12, 5-pin male con- nector, angled	M12, 5-pin fe- male con- nector, straight		C1000023
Cable/FC/ M12-5AMX/ M12-5SFX/ A/010/0Q34/BK	10 m	M12, 5-pin male con- nector, angled	M12, 5-pin fe- male con- nector, straight		C1000024
Cable/FC/ M12-5AMX/ M12-5SFX/ A/020/0Q34/BK	20 m	M12, 5-pin male con- nector, angled	M12, 5-pin fe- male con- nector, straight		C1000025
Cable/FC/ M12-5AMX/ M12-5SFX/ A/030/0Q34/BK	30 m	M12, 5-pin male con- nector, angled	M12, 5-pin fe- male con- nector, straight		C1000026