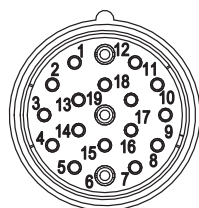


Accessories

Cable M23 s 19p

Connector pin assignment



Plan view of plug-in connector X1

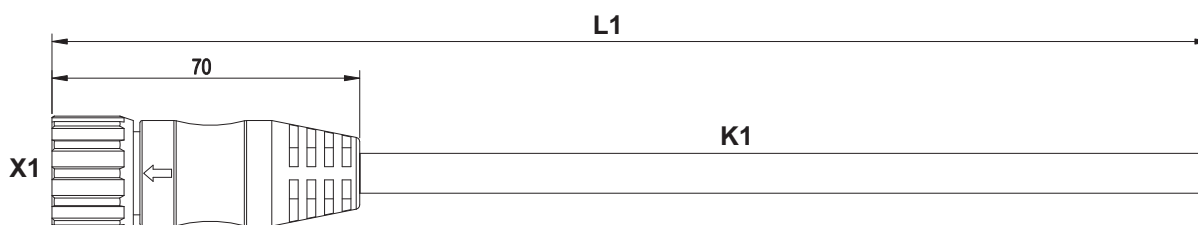
Contact assignment

X1

1	Red
2	Grey
3	Purple
4	Yellow
5	Green
6	Blue
7	White
8	Red/blue
9	Grey/brown
10	Brown/green

11	Yellow/brown
12	Green-yellow
13	Black
14	White/yellow
15	White/green
16	White/grey
17	Grey/pink
18	Pink
19	Brown

Dimensions in mm



Technical details Order no. C1000071 - C1000074

General	C1000071	C1000072	C1000073	C1000074
Certifications	CE, UKCA, cULus Listed	CE, UKCA, cULus Listed	CE, UKCA, cULus Listed	CE, UKCA, cULus Listed
Electrical data	C1000071	C1000072	C1000073	C1000074
Rated voltage				
Voltage UB	100 V	100 V	100 V	100 V
Kind	AC/DC	AC/DC	AC/DC	AC/DC
Rated current	2 A	2 A	2 A	2 A
Typ. conductor resistance K1	87.5 Ohm/km	87.5 Ohm/km	87.5 Ohm/km	87.5 Ohm/km
Insulation resistance	100 MOhm	100 MOhm	100 MOhm	100 MOhm

Accessories

Cable M23 s 19p

Electrical data	C1000071	C1000072	C1000073	C1000074
Cable insulation resistance K1	> 2.5 MOhm/kft	> 2.5 MOhm/kft	> 2.5 MOhm/kft	> 2.5 MOhm/kft
Environmental data	C1000071	C1000072	C1000073	C1000074
Temperature when using in the drag chain	-25 - 80 °C	-25 - 80 °C	-25 - 80 °C	-25 - 80 °C
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 when screwed in place	IP67 when screwed in place	IP67 when screwed in place	IP67 when screwed in place
Mechanical data	C1000071	C1000072	C1000073	C1000074
Plug connector X1	19-pin M23 female connector	19-pin M23 female connector	19-pin M23 female connector	19-pin M23 female connector
Form, plug-in connector X1	Straight	Straight	Straight	Straight
Coding of plug-in connector X1	N-coded	N-coded	N-coded	N-coded
Material of ring nut X1	Brass	Brass	Brass	Brass
Housing material X1	TPU	TPU	TPU	TPU
Material of contact surface X1	CuZn, Ni b	CuZn, Ni b	CuZn, Ni b	CuZn, Ni b
Material of gasket	PA66	PA66	PA66	PA66
Material of socket	Cu	Cu	Cu	Cu
Conductor material K1	Cu	Cu	Cu	Cu
Insulating cover for conductor K1	PP (9Y)	PP (9Y)	PP (9Y)	PP (9Y)
Mating cycles X1	800	800	800	800
Cable length L1	2 m	3 m	5 m	10 m
Cable length tolerance L1	+/- 40 mm	+/- 60 mm	+/- 100 mm	+/- 200 mm
Colour of external cable insulation K1	Signal yellow RAL 1003	Signal yellow RAL 1003	Signal yellow RAL 1003	Signal yellow RAL 1003
Colour of housing	Black	Black	Black	Black
Cable insulation material K1	PUR	PUR	PUR	PUR

Accessories

Cable M23 s 19p

Mechanical data	C1000071	C1000072	C1000073	C1000074
Drag chain suitable K1	Yes	Yes	Yes	Yes
Min. bending radius (fixed permanently) K1	8 x Ø	8 x Ø	8 x Ø	8 x Ø
Min. bending radius (moving) K1	12 x Ø	12 x Ø	12 x Ø	12 x Ø
Bending cycles cable K1	3.000.000	3.000.000	3.000.000	3.000.000
Max. traverse speed K1	3 m/s	3 m/s	3 m/s	3 m/s
Cable diameter K1	7,8 mm	7,8 mm	7,8 mm	7,8 mm
Max. cable diameter K1	8,05 mm	8,05 mm	8,05 mm	8,05 mm
Conductor cross section K1	0,25 mm ²	0,25 mm ²	0,25 mm ²	0,25 mm ²
Conductor cross section AWG K1	24	24	24	24
Shielding K1	No	No	No	No
Wire layer separation K1	No	No	No	No
No. of wires K1	19	19	19	19
Certification cable K1	UL AWM-Style 20233, UL/CSA	UL AWM-Style 20233, UL/CSA	UL AWM-Style 20233, UL/CSA	UL AWM-Style 20233, UL/CSA
Certification plug-in connector X1	UL94 V-0	UL94 V-0	UL94 V-0	UL94 V-0
Halogen-free	Yes	Yes	Yes	Yes
Silicone-free	Yes	Yes	Yes	Yes
Oil resistance	Yes, in accordance with ASTM standards	Yes, in accordance with ASTM standards	Yes, in accordance with ASTM standards	Yes, in accordance with ASTM standards
Non-flammability	CSA FT-2, UL AWM 20233, UL VW1	CSA FT-2, UL AWM 20233, UL VW1	CSA FT-2, UL AWM 20233, UL VW1	CSA FT-2, UL AWM 20233, UL VW1
Torque of the interlock screw	2.0 Nm	2.0 Nm	2.0 Nm	2.0 Nm
Weight	226 g	308 g	498 g	928 g

Accessories

Cable M23 s 19p

Technical details Order no. C1000075 - C1000077

General	C1000075	C1000076	C1000077
Certifications	CE, UKCA, cULus Listed	CE, UKCA, cULus Listed	CE, UKCA, cULus Listed
Electrical data	C1000075	C1000076	C1000077
Rated voltage			
Voltage UB	100 V	100 V	100 V
Kind	AC/DC	AC/DC	AC/DC
Rated current	2 A	2 A	2 A
Typ. conductor resistance K1	87.5 Ohm/km	87.5 Ohm/km	87.5 Ohm/km
Insulation resistance	100 MOhm	100 MOhm	100 MOhm
Cable insulation resistance K1	> 2.5 MOhm/kft	> 2.5 MOhm/kft	> 2.5 MOhm/kft
Environmental data	C1000075	C1000076	C1000077
Temperature when using in the drag chain	-25 - 80 °C	-25 - 80 °C	-25 - 80 °C
Ambient temperature			
Temperature range	-40 - 80 °C	-40 - 80 °C	-40 - 80 °C
Temperature range (moving)	-25 - 80 °C	-25 - 80 °C	-25 - 80 °C
Airgap creepage			
Pollution degree	3	3	3
Protection type			
X1 when inserted	IP67 when screwed in place	IP67 when screwed in place	IP67 when screwed in place
Mechanical data	C1000075	C1000076	C1000077
Plug connector X1	19-pin M23 female connector	19-pin M23 female connector	19-pin M23 female connector
Form, plug-in connector X1	Straight	Straight	Straight
Coding of plug-in connector X1	N-coded	N-coded	N-coded
Material of ring nut X1	Brass	Brass	Brass
Housing material X1	TPU	TPU	TPU
Material of contact surface X1	CuZn, Ni b	CuZn, Ni b	CuZn, Ni b
Material of gasket	PA66	PA66	PA66
Material of socket	Cu	Cu	Cu
Conductor material K1	Cu	Cu	Cu
Insulating cover for conductor K1	PP (9Y)	PP (9Y)	PP (9Y)
Mating cycles X1	800	800	800

Accessories

Cable M23 s 19p

Mechanical data	C1000075	C1000076	C1000077
Cable length L1	20 m	30 m	50 m
Cable length tolerance L1	+/- 400 mm	+/- 600 mm	+/- 1000 mm
Colour of external cable insulation K1	Signal yellow RAL 1003	Signal yellow RAL 1003	Signal yellow RAL 1003
Colour of housing	Black	Black	Black
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
Bending cycles cable K1	3.000.000	3.000.000	3.000.000
Max. traverse speed K1	3 m/s	3 m/s	3 m/s
Cable diameter K1	7,8 mm	7,8 mm	7,8 mm
Max. cable diameter K1	8,05 mm	8,05 mm	8,05 mm
Conductor cross section K1	0,25 mm ²	0,25 mm ²	0,25 mm ²
Conductor cross section AWG K1	24	24	24
Shielding K1	No	No	No
Wire layer separation K1	No	No	No
No. of wires K1	19	19	19
Certification cable K1	UL AWM-Style 20233, UL/CSA	UL AWM-Style 20233, UL/CSA	UL AWM-Style 20233, UL/CSA
Certification plug-in connector X1	UL94 V-0	UL94 V-0	UL94 V-0
Halogen-free	Yes	Yes	Yes
Silicone-free	Yes	Yes	Yes
Oil resistance	Yes, in accordance with ASTM standards	Yes, in accordance with ASTM standards	Yes, in accordance with ASTM standards
Non-flammability	CSA FT-2, UL AWM 20233, UL VW1	CSA FT-2, UL AWM 20233, UL VW1	CSA FT-2, UL AWM 20233, UL VW1
Torque of the interlock screw	2.0 Nm	2.0 Nm	2.0 Nm
Weight	1.790 g	2.725 g	4.455 g

Accessories

Cable M23 s 19p

Order reference

Product type	Features	Order no.
Cable/XX/ M23-19SF/XXX- XXXX/X/002/0Q25/ XX	Connection cable, 19-pin M23 female connector, straight, conductor cross section: 19 x 0.25 mm ² , cable length: 2 m	C1000071
Cable/XX/ M23-19SF/XXX- XXXX/X/003/0Q25/ XX	Connection cable, 19-pin M23 female connector, straight, conductor cross section: 19 x 0.25 mm ² , cable length: 3 m	C1000072
Cable/XX/ M23-19SF/XXX- XXXX/X/005/0Q25/ XX	Connection cable, 19-pin M23 female connector, straight, conductor cross section: 19 x 0.25 mm ² , cable length: 5 m	C1000073
Cable/XX/ M23-19SF/XXX- XXXX/X/010/0Q25/ XX	Connection cable, 19-pin M23 female connector, straight, conductor cross section: 19 x 0.25 mm ² , cable length: 10 m	C1000074
Cable/XX/ M23-19SF/XXX- XXXX/X/020/0Q25/ XX	Connection cable, 19-pin M23 female connector, straight, conductor cross section: 19 x 0.25 mm ² , cable length: 20 m	C1000075
Cable/XX/ M23-19SF/XXX- XXXX/X/030/0Q25/ XX	Connection cable, 19-pin M23 female connector, straight, conductor cross section: 19 x 0.25 mm ² , cable length: 30 m	C1000076
Cable/XX/ M23-19SF/XXX- XXXX/X/050/0Q25/ XX	Connection cable, 19-pin M23 female connector, straight, conductor cross section: 19 x 0.25 mm ² , cable length: 50 m	C1000077