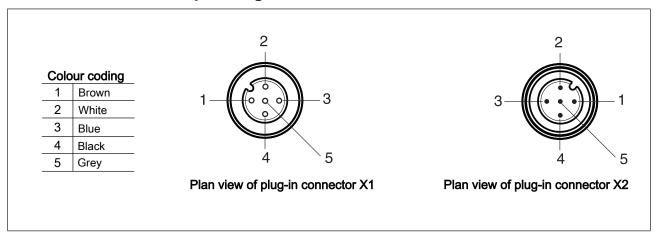
Accessories

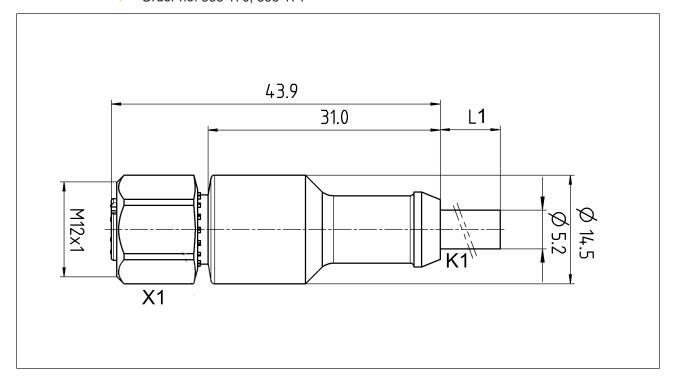
PSEN Cable M12 5p VA

Connector pin assignment



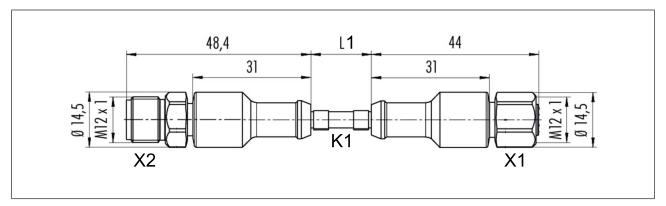
Dimensions in mm

Order no. 533 170, 533 171



PSEN Cable M12 5p VA

Order no. 533 180, 533 181



Technical details

General	533170	533171	533180	533181
Certifications	ECOLAB, cULus Listed	ECOLAB, cULus Listed	ECOLAB, cULus Listed	ECOLAB, cULus Listed
Electrical data	533170	533171	533180	533181
Rated voltage				
Voltage UB	60 V	60 V	60 V	60 V
Rated current	4 A	4 A	4 A	4 A
Test voltage	2.500 V	2.500 V	2.500 V	2.500 V
Typ. conductor res- istance K1	57 Ohm/km	57 Ohm/km	57 Ohm/km	57 Ohm/km
Insulation resistance	100 MOhm	100 MOhm	100 MOhm	100 MOhm
Cable insulation res- istance K1	200 MOhm x km			
Volume resistance	3 mOhm	3 mOhm	3 mOhm	3 mOhm
Specific cable capa- citance K1	79,9 pF/m	79,9 pF/m	79,9 pF/m	79,9 pF/m
Environmental data	533170	533171	533180	533181
Temperature when using in the drag chain	-5 - 60°C	-5 - 60°C	-5 - 60°C	-5 - 60°C
Ambient temperat- ure				
Temperature range	-40 - 105 °C			
Temperature range (moving)	-5 - 105 °C			

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Environmental data	533170	533171	533180	533181
Airgap creepage				
Overvoltage cat-				
egory	II	II	II	II
Pollution degree	3	3	3	3
Rated impulse with-				
stand voltage	1,5 kV	1,5 kV	1,5 kV	1,5 kV
Protection type				
X1 when inserted	IP69K	IP69K	IP69K	IP69K
X2 when inserted	_	_	IP69K	IP69K
Housing	IP69K	IP69K	IP69K	IP69K
Mechanical data	533170	533171	533180	533181
Plug-in connector X1	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	Straight	Straight	Straight	Straight
Plug-in connector X2	_	_	M12, 5-pin male connector	M12, 5-pin male connector
In accordance with				
the standard			EN 61076-2-101	EN 61076-2-101
Form, plug-in con- nector X2	_	_	Straight	Straight
Material of ring nut X1	Stainless steel 1.4404	Stainless steel 1.4404	Stainless steel 1.4404	Stainless steel 1.4404
Material of ring nut X2	_	_	Stainless steel 1.4404	Stainless steel 1.4404
Housing material X1	PP	PP	PP	PP
Housing material X2	_	_	PP	PP
Material of contact surface X1	Au	Au	Au	Au
Material of contact surface X2	_	_	Au	Au
Material of gasket	EPDM	EPDM	EPDM	EPDM
Material of pin	_	_	CuZn	CuZn
Material of socket	CuSn	CuSn	CuSn	CuSn
Conductor material K1	Cu	Cu	Cu	Cu
Insulating cover for conductor K1	PVC Y17 (105°)	PVC Y17 (105°)	PVC Y17 (105°)	PVC Y17 (105°)
Mating cycles X1	100	100	100	100
Mating cycles X2	_	_	100	100
Cable length L1				

Accessories

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	70	533171	533180	533181
Colour of external cable insulation K1 Sign RAL	al yellow, 1003	Signal yellow, RAL1003	Signal yellow, RAL1003	Signal yellow, RAL1003
Colour of housing Light	t grey	Light grey	Light grey	Light grey
Cable insulation material K1 PVC	YM3 (105°)	PVC YM3 (105°)	PVC YM3 (105°)	PVC YM3 (105°)
Drag chain suitable K1 yes		yes	yes	yes
Min. bending radius (fixed permanently) K1 5 x &	Ď	5 x Ø	5 x Ø	5 x Ø
Min. bending radius (moving) K1 10 x	Ø	10 x Ø	10 x Ø	10 x Ø
Max. traverse path K1 5 m		5 m	5 m	5 m
	0.000	2.000.000	2.000.000	2.000.000
Max. traverse path K1 2 m		2 m	2 m	2 m
Max. traverse speed K1 3,3 n		3,3 m/s	3,3 m/s	3,3 m/s
Max. acceleration K1 5 m/s	s2	5 m/s2	5 m/s2	5 m/s2
Cable diameter K1 5,2 n	nm	5,2 mm	5,2 mm	5,2 mm
Max. cable diameter K1 5,4 m	nm	5,4 mm	5,4 mm	5,4 mm
Conductor cross section K1 0,34	mm²	0,34 mm²	0,34 mm²	0,34 mm²
Conductor cross section AWG K1 22		22	22	22
	vn, white, blue, k, grey	Brown, white, blue, black, grey	Brown, white, blue, black, grey	Brown, white, blue, black, grey
3	es stranded in centrical layers	Cores stranded in concentrical layers	Cores stranded in concentrical layers	Cores stranded in concentrical layers
Shielding K1 No		No	No	No
No. of wires K1 5		5	5	5
Certification cable K1 UL A	-	UL AWM-Style 2517 VW1	UL AWM-Style 2517 VW1	UL AWM-Style 2517 VW1
Halogen-free No		No	No	No
Silicone-free yes		yes	yes	yes
Oil resistance Resi	stant	Resistant	Resistant	Resistant
6033	0265-2-2, IEC 2-2, UL VW1, 0482-265-2-2	EN 50265-2-2, IEC 60332-2, UL VW1, VDE 0482-265-2-2	EN 50265-2-2, IEC 60332-2, UL VW1, VDE 0482-265-2-2	EN 50265-2-2, IEC 60332-2, UL VW1, VDE 0482-265-2-2
Torque of the inter- lock screw appr	ox. 50 cNM	approx. 50 cNM	approx. 50 cNM	approx. 50 cNM

Accessories

PSEN Cable M12 5p VA

Order reference

Product type	Features	Connector X1	Connector X2	Connector X3	Order no.
PSEN cable M12-5sf VA 5m	5 m	M12, 5-pin fe- male con- nector, straight, stainless steel threaded ring			533 170
PSEN cable M12-5sf VA 10m	10 m	M12, 5-pin fe- male con- nector, straight, stainless steel threaded ring			533 171
PSEN cable M12-5sf/M12-5sm VA 5m	5 m	M12, 5-pin fe- male con- nector, straight, stainless steel threaded ring	M12, 5-pin male con- nector, straight, stainless steel threaded ring		533 180
PSEN cable M12-5sf/M12-5sm VA 10m	10 m	M12, 5-pin fe- male con- nector, straight, stainless steel threaded ring	M12, 5-pin male con- nector, straight, stainless steel threaded ring		533 181