

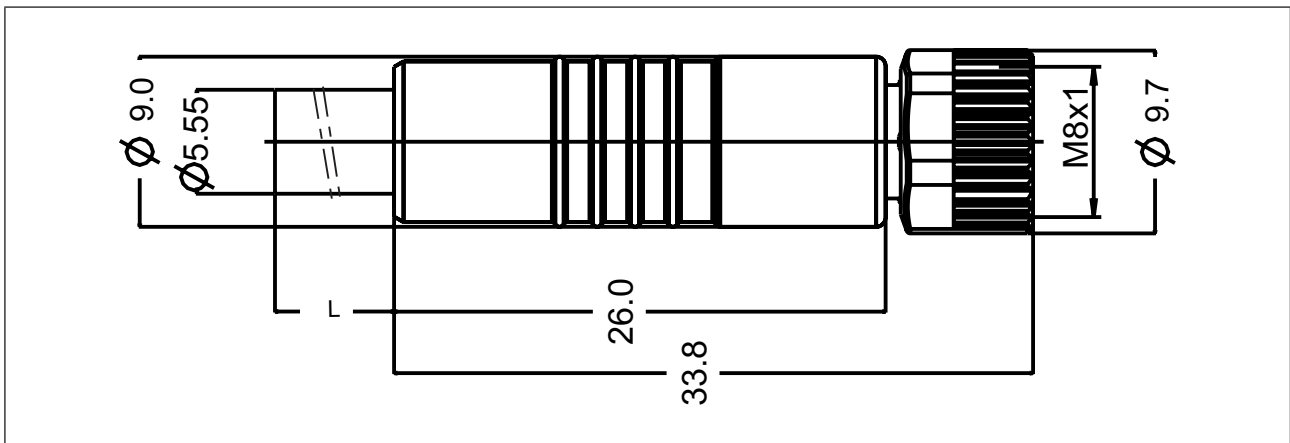
## PSEN ma Cable M8 8p

### Connector pin assignment

Colour coding	
1	white
2	brown
3	green
4	yellow
5	grey
6	pink
7	blue
8	red

Plan view plug-in connector X1

### Dimensions



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### Technical details

<b>Electrical data</b>	<b>533150</b>	<b>533151</b>	<b>533152</b>	<b>533153</b>	<b>533154</b>
Rated voltage UB	30 V	30 V	30 V	30 V	30 V
Conductor resistance	138 Ohm/km	138 Ohm/km	138 Ohm/km	138 Ohm/km	138 Ohm/km
Insulation resistance	100 MOhm	100 MOhm	100 MOhm	100 MOhm	100 MOhm
Test voltage	3.000 V	3.000 V	3.000 V	3.000 V	3.000 V
Specific cable capacitance	57,5pF/m	57,5pF/m	57,5pF/m	57,5pF/m	57,5pF/m
Volume resistance	3 mOhm	3 mOhm	3 mOhm	3 mOhm	3 mOhm
Specific volume resistance	$\geq 7E+15$ Ohm*cm	$\geq 7E+15$ Ohm*cm	$\geq 7E+15$ Ohm*cm	$\geq 7E+15$ Ohm*cm	$\geq 7E+15$ Ohm*cm
Rated current	1,5 A	1,5 A	1,5 A	1,5 A	1,5 A
<b>Environmental data</b>	<b>533150</b>	<b>533151</b>	<b>533152</b>	<b>533153</b>	<b>533154</b>
Ambient temperature					
Temperature range	-25 - 80 °C	-25 - 80 °C	-25 - 80 °C	-25 - 80 °C	-25 - 80 °C
Airgap creepage					
Pollution degree	3	3	3	3	3
<b>Mechanical data</b>	<b>533150</b>	<b>533151</b>	<b>533152</b>	<b>533153</b>	<b>533154</b>
Plug connector X1	M8, 8-pin female connector	M8, 8-pin female connector	M8, 8-pin female connector	M8, 8-pin female connector	M8, 8-pin female connector
Form, plug connector X1	Straight	Straight	Straight	Straight	Straight
Material of ring nut X1	CuZn nickel-plated	CuZn nickel-plated	CuZn nickel-plated	CuZn nickel-plated	CuZn nickel-plated
Housing material X1	PUR	PUR	PUR	PUR	PUR
Material of contact surface	Au	Au	Au	Au	Au
Socket material	CuSn	CuSn	CuSn	CuSn	CuSn
Conductor material	Cu	Cu	Cu	Cu	Cu
Insulating cover for conductor	PP (9Y)	PP (9Y)	PP (9Y)	PP (9Y)	PP (9Y)
Mating cycles X1	100	100	100	100	100
Cable type	LiF9Y11Y	LiF9Y11Y	LiF9Y11Y	LiF9Y11Y	LiF9Y11Y
Cable length L	2,00 m	5,00 m	10,00 m	20,00 m	30,00 m

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Mechanical data	533150	533151	533152	533153	533154
Colour of external cable insulation	Yellow, similar to RAL1003	Yellow, similar to RAL1003	Yellow, similar to RAL1003	Yellow, similar to RAL1003	Yellow, similar to RAL1003
Min. bending radius (for laying)	5 x Ø	5 x Ø	5 x Ø	5 x Ø	5 x Ø
Min. bending radius (for constant movement)	10 x Ø	10 x Ø	10 x Ø	10 x Ø	10 x Ø
Cable insulation material	PUR, TPU / TPE-U	PUR, TPU / TPE-U	PUR, TPU / TPE-U	PUR, TPU / TPE-U	PUR, TPU / TPE-U
Suitable for drag chains	No	No	No	No	No
Cable diameter	5,55 mm	5,55 mm	5,55 mm	5,55 mm	5,55 mm
Cable cross section	0,14 mm <sup>2</sup>	0,14 mm <sup>2</sup>	0,14 mm <sup>2</sup>	0,14 mm <sup>2</sup>	0,14 mm <sup>2</sup>
Cable cross section AWG	26	26	26	26	26
Wire colour	White, brown, green, yellow, green, pink, blue, red	White, brown, green, yellow, green, pink, blue, red	White, brown, green, yellow, green, pink, blue, red	White, brown, green, yellow, green, pink, blue, red	White, brown, green, yellow, green, pink, blue, red
Stranding	8 cores around plastic fillers	8 cores around plastic fillers	8 cores around plastic fillers	8 cores around plastic fillers	8 cores around plastic fillers
Shielding	No	No	No	No	No
Wire layer separation	No	No	No	No	No
No. of wires	8	8	8	8	8
Cable approval	UL AWM-Style 20233, UL/CSA	UL AWM-Style 20233, UL/CSA	UL AWM-Style 20233, UL/CSA	UL AWM-Style 20233, UL/CSA	UL AWM-Style 20233, UL/CSA
Approval for plug connector X1	UL 94 HB	UL 94 HB	UL 94 HB	UL 94 HB	UL 94 HB
Protection type					
X1 when inserted	IP67	IP67	IP67	IP67	IP67
Housing	IP67	IP67	IP67	IP67	IP67
Material					
Housing	PUR	PUR	PUR	PUR	PUR
Weight	82 g	188 g	370 g	719 g	1.065 g

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### Order reference

Order reference				
Product type	Features	Connector X1	Connector X2	Order no.
PSEN cable M8-8sf, 2m	2 m	M8 female connector, straight		533 150
PSEN cable M8-8sf, 5m	5 m	M8 female connector, straight		533 151
PSEN cable M8-8sf, 10m	10 m	M8 female connector, straight		533 152
PSEN cable M8-8sf, 20m	20 m	M8 female connector, straight		533 153
PSEN cable M8-8sf, 30m	30 m	M8 female connector, straight		533 154