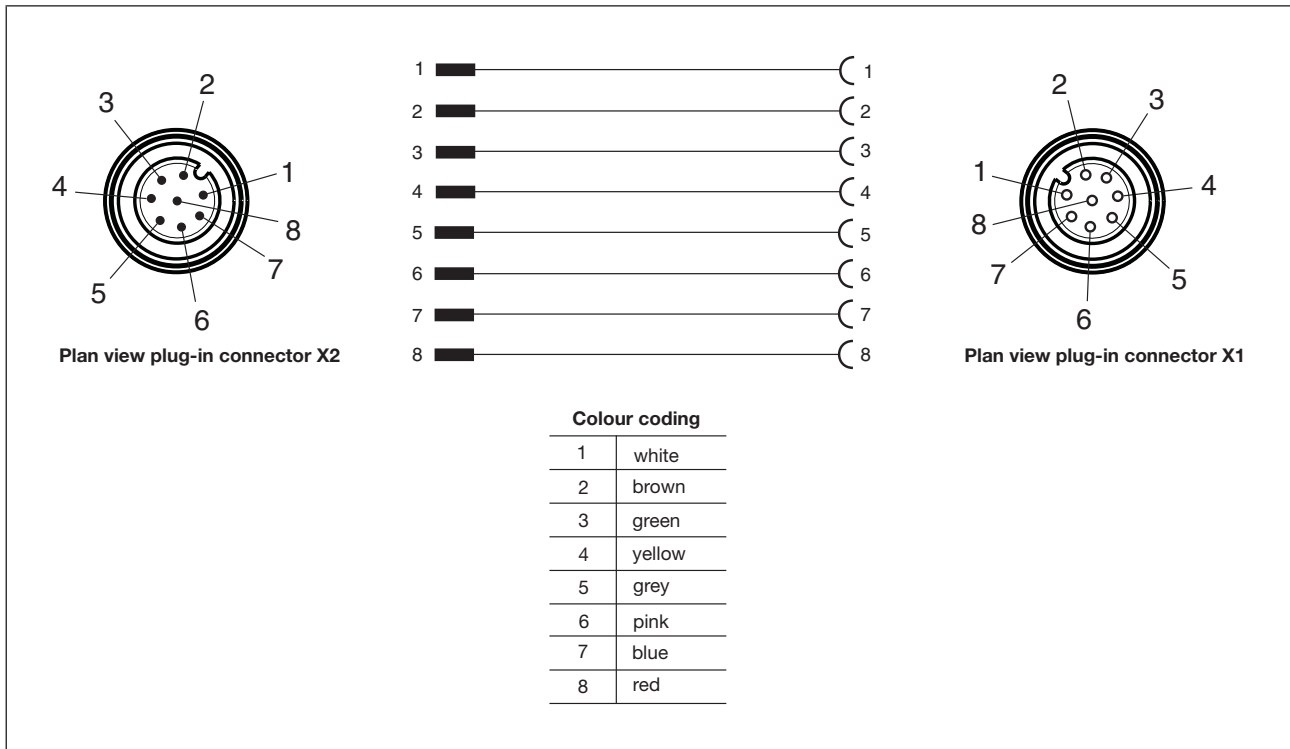
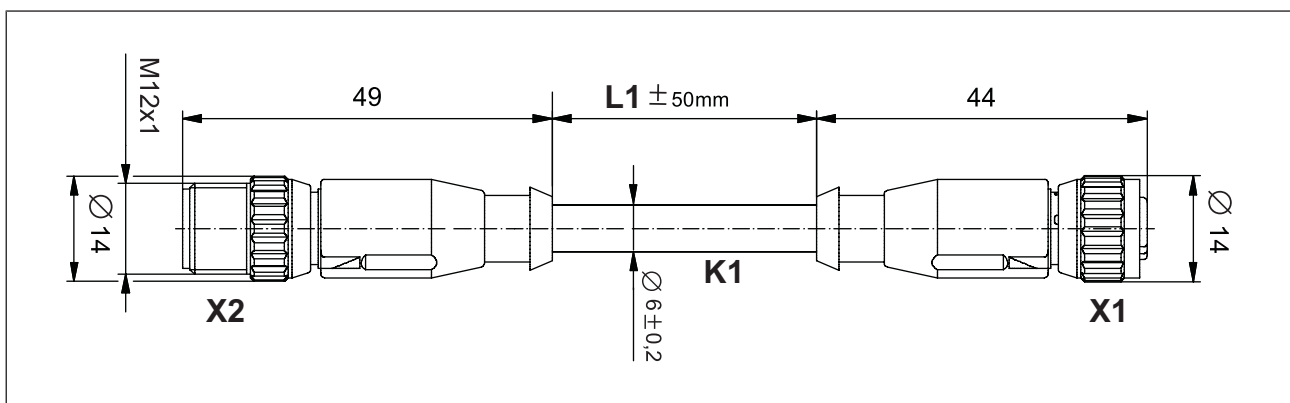


## PSEN Cable M12-M12 8p

### Connector pin assignment



### Dimensions



## PSEN Cable M12-M12 8p

### Technical details Order no. 540340 - 540343

General	540340	540341	540342	540343
Approvals	cULus Listed	cULus Listed	cULus Listed	cULus Listed
Electrical data	540340	540341	540342	540343
Rated voltage				
Voltage UB	30 V	30 V	30 V	30 V
Rated current	2 A	2 A	2 A	2 A
Test voltage	3.000 V	3.000 V	3.000 V	3.000 V
Typ. conductor resistance K1	78 Ohm/km	78 Ohm/km	78 Ohm/km	78 Ohm/km
Insulation resistance	10000 MOhm	10000 MOhm	10000 MOhm	10000 MOhm
Specific volume resistance K1	>= 1E+16 Ohm*cm	>= 1E+16 Ohm*cm	>= 1E+16 Ohm*cm	>= 1E+16 Ohm*cm
Specific cable capacitance K1	60pF/m	60pF/m	60pF/m	60pF/m
Environmental data	540340	540341	540342	540343
Ambient temperature				
Temperature range	-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	IP67	IP67	IP67
X2 when inserted	IP67	IP67	IP67	IP67
Housing	IP67	IP67	IP67	IP67
Mechanical data	540340	540341	540342	540343
Plug-in connector X1	M12, 8-pin female connector	M12, 8-pin female connector	M12, 8-pin female connector	M12, 8-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, 8-pin male connector	M12, 8-pin male connector	M12, 8-pin male connector	M12, 8-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	Straight	Straight	Straight	Straight
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

## PSEN Cable M12-M12 8p

Mechanical data	540340	540341	540342	540343
Housing material X1	TPU GF	TPU GF	TPU GF	TPU GF
Housing material X2	TPU GF	TPU GF	TPU GF	TPU GF
Material of contact surface X1	Ni, Au gal.	Ni, Au gal.	Ni, Au gal.	Ni, Au gal.
Material of contact surface X2	Ni, AU gal.	Ni, AU gal.	Ni, AU gal.	Ni, AU gal.
Material of gasket	FPM	FPM	FPM	FPM
Material of pin	CuZn	CuZn	CuZn	CuZn
Material of socket	CuZn	CuZn	CuZn	CuZn
Conductor material K1	Cu	Cu	Cu	Cu
Insulating cover for conductor K1	PP (9Y)	PP (9Y)	PP (9Y)	PP (9Y)
Mating cycles X1	100	100	100	100
Mating cycles X2	100	100	100	100
Cable type K1	Li9Y11Y	Li9Y11Y	Li9Y11Y	Li9Y11Y
Cable length L1	2 m	5 m	10 m	20 m
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
Min. bending radius (fixed permanently) K1	6 x Ø	6 x Ø	6 x Ø	6 x Ø
Cable insulation material K1	TPU/TPE-U	TPU/TPE-U	TPU/TPE-U	TPU/TPE-U
Drag chain suitable K1	yes	yes	yes	yes
Cable diameter K1	6 mm	6 mm	6 mm	6 mm
Max. cable diameter K1	6,2 mm	6,2 mm	6,2 mm	6,2 mm
Conductor cross section K1	0,25 mm <sup>2</sup>	0,25 mm <sup>2</sup>	0,25 mm <sup>2</sup>	0,25 mm <sup>2</sup>
Conductor cross section AWG K1	24	24	24	24
Wire colour K1	White, brown, green, yellow, grey, pink, blue, red	White, brown, green, yellow, grey, pink, blue, red	White, brown, green, yellow, grey, pink, blue, red	White, brown, green, yellow, grey, pink, blue, red
Stranding K1	8 cores around filler	8 cores around filler	8 cores around filler	8 cores around filler
Shielding K1	No	No	No	No
No. of wires K1	8	8	8	8
Approval cable K1	UL AWM-Style 20549	UL AWM-Style 20549	UL AWM-Style 20549	UL AWM-Style 20549

## PSEN Cable M12-M12 8p

<b>Mechanical data</b>	<b>540340</b>	<b>540341</b>	<b>540342</b>	<b>540343</b>
Approval of plug-in connector X1	<b>UL 94</b>	<b>UL 94</b>	<b>UL 94</b>	<b>UL 94</b>
Approval of plug-in connector X2	<b>UL 94</b>	<b>UL 94</b>	<b>UL 94</b>	<b>UL 94</b>
Halogen-free	<b>yes</b>	<b>yes</b>	<b>yes</b>	<b>yes</b>
Silicone-free	<b>yes</b>	<b>yes</b>	<b>yes</b>	<b>yes</b>
Oil resistance	<b>Resistant</b>	<b>Resistant</b>	<b>Resistant</b>	<b>Resistant</b>
Non-flammability	<b>cULus 20549</b>	<b>cULus 20549</b>	<b>cULus 20549</b>	<b>cULus 20549</b>
<b>Material</b>				
Housing	<b>TPU, UL94</b>	<b>TPU, UL94</b>	<b>TPU, UL94</b>	<b>TPU, UL94</b>
Weight	<b>113 g</b>	<b>272 g</b>	<b>488 g</b>	<b>953 g</b>

## PSEN Cable M12-M12 8p

## Technical details Order no. 540344 - 540347

General	540344	540345	540346	540347
Approvals	cULus Listed	cULus Listed	cULus Listed	cULus Listed
Electrical data	540344	540345	540346	540347
Rated voltage				
Voltage UB	30 V	30 V	30 V	30 V
Rated current	2 A	2 A	2 A	2 A
Test voltage	3.000 V	3.000 V	3.000 V	3.000 V
Typ. conductor resistance K1	78 Ohm/km	78 Ohm/km	78 Ohm/km	78 Ohm/km
Insulation resistance	10000 MOhm	100 MOhm	100 MOhm	100 MOhm
Specific volume resistance K1	$\geq 1E+16$ Ohm*cm	$\geq 1E+16$ Ohm*cm	$\geq 1E+16$ Ohm*cm	$\geq 1E+16$ Ohm*cm
Specific cable capacitance K1	60pF/m	–	–	–
Environmental data	540344	540345	540346	540347
Ambient temperature				
Temperature range	-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	IP67	IP67	IP67
X2 when inserted	IP67	IP67	IP67	IP67
Housing	IP67	IP67	IP67	IP67
Mechanical data	540344	540345	540346	540347
Plug-in connector X1	M12, 8-pin female connector	M12, 8-pin female connector	M12, 8-pin female connector	M12, 8-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, 8-pin male connector	M12, 8-pin male connector	M12, 8-pin male connector	M12, 8-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	Straight	Straight	Straight	Straight
Material of ring nut X1	CuZn nickel-plated	GD-Zn, Ni	GD-Zn, Ni	GD-Zn, Ni
Material of ring nut X2	CuZn nickel-plated	GD-Zn, Ni	GD-Zn, Ni	GD-Zn, Ni

## PSEN Cable M12-M12 8p

Mechanical data	540344	540345	540346	540347
Housing material X1	TPU GF	PA	PA	PA
Housing material X2	TPU GF	PA	PA	PA
Material of contact surface X1	Ni, Au gal.	Ni, Au gal.	Ni, Au gal.	Ni, Au gal.
Material of contact surface X2	Ni, AU gal.	Ni, AU gal.	Ni, AU gal.	Ni, AU gal.
Material of gasket	FPM	FPM	FPM	FPM
Material of pin	CuZn	CuZn	CuZn	CuZn
Material of socket	CuZn	CuZn	CuZn	CuZn
Conductor material K1	Cu	Cu	Cu	Cu
Insulating cover for conductor K1	PP (9Y)	PP (9Y)	PP (9Y)	PP (9Y)
Mating cycles X1	100	100	100	100
Mating cycles X2	100	100	100	100
Cable type K1	Li9Y11Y	Li9Y11Y	Li9Y11Y	Li9Y11Y
Cable length L1	30 m	0,5 m	1 m	1,5 m
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
Min. bending radius (fixed permanently) K1	6 x Ø	6 x Ø	6 x Ø	6 x Ø
Cable insulation material K1	TPU/TPE-U	TPU/TPE-U	TPU/TPE-U	TPU/TPE-U
Drag chain suitable K1	yes	yes	yes	yes
Cable diameter K1	6 mm	6 mm	6 mm	6 mm
Max. cable diameter K1	6,2 mm	6,2 mm	6,2 mm	6,2 mm
Conductor cross section K1	0,25 mm <sup>2</sup>	0,25 mm <sup>2</sup>	0,25 mm <sup>2</sup>	0,25 mm <sup>2</sup>
Conductor cross section AWG K1	24	24	24	24
Wire colour K1	White, brown, green, yellow, grey, pink, blue, red	White, brown, green, yellow, grey, pink, blue, red	White, brown, green, yellow, grey, pink, blue, red	White, brown, green, yellow, grey, pink, blue, red
Stranding K1	8 cores around filler	8 cores around filler	8 cores around filler	8 cores around filler
Shielding K1	No	No	No	No
No. of wires K1	8	8	8	8
Approval cable K1	UL AWM-Style 20549	UL AWM-Style 20549	UL AWM-Style 20549	UL AWM-Style 20549

## PSEN Cable M12-M12 8p

Mechanical data	540344	540345	540346	540347
Approval of plug-in connector X1	UL 94	UL 94	UL 94	UL 94
Approval of plug-in connector X2	UL 94	UL 94	UL 94	UL 94
Halogen-free	yes	yes	yes	yes
Silicone-free	yes	yes	yes	yes
Oil resistance	Resistant	Resistant	Resistant	Resistant
Non-flammability	cULus 20549	cULus 20549	cULus 20549	cULus 20549
Material				
Housing	TPU, UL94	TPU, UL94	TPU, UL94	TPU, UL94
Weight	1.448 g	40 g	63 g	86 g

### Order reference

Product type	Features	Connector X1	Connector X2	Order no.
PSEN cable M12-8sf M12-8sm, 2m	2 m	M12 female connector, straight	M12 male connector, straight	540 340
PSEN cable M12-8sf M12-8sm, 5m	5 m	M12 female connector, straight	M12 male connector, straight	540 341
PSEN cable M12-8sf M12-8sm, 10m	10	M12 female connector, straight	M12 male connector, straight	540 342
PSEN cable M12-8sf M12-8sm, 20m	20 m	M12 female connector, straight	M12 male connector, straight	540 343
PSEN cable M12-8sf M12-8sm, 30m	30 m	M12 female connector, straight	M12 male connector, straight	540 344
PSEN cable M12-8sf M12-8sm, 0.5m	0.5 m	M12 female connector, straight	M12 male connector, straight	540 345
PSEN cable M12-8sf M12-8sm, 1m	1 m	M12 female connector, straight	M12 male connector, straight	540 346
PSEN cable M12-8sf M12-8sm, 1.5m	1.5 m	M12 female connector, straight	M12 male connector, straight	540 347