

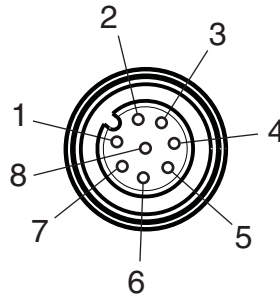
# Accessories

## PSEN op Cable M12 8p sh

### Connector pin assignment

#### Colour coding

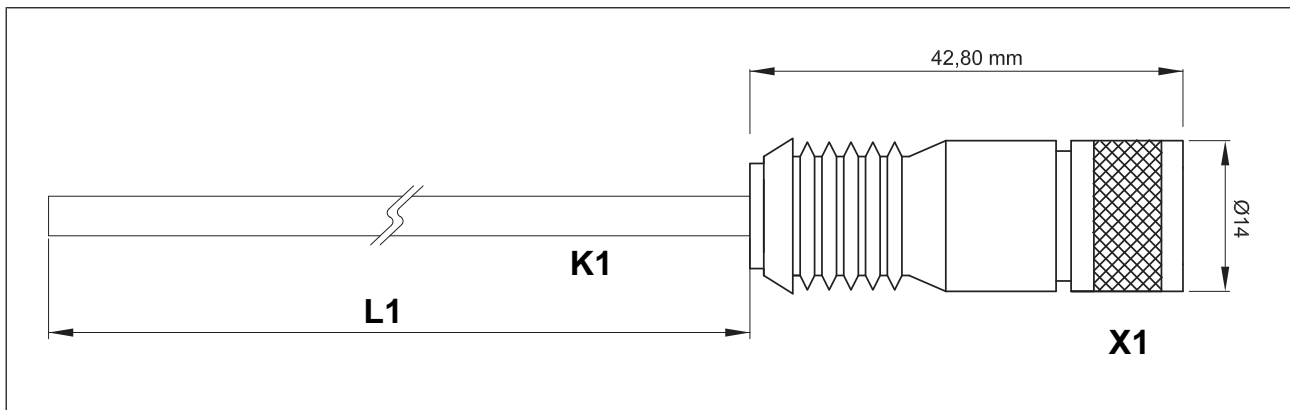
1	white
2	brown
3	green
4	yellow
5	grey
6	pink
7	blue
8	red
Shield	Shield sleeve



Plan view plug-in connector X1

### Dimensions

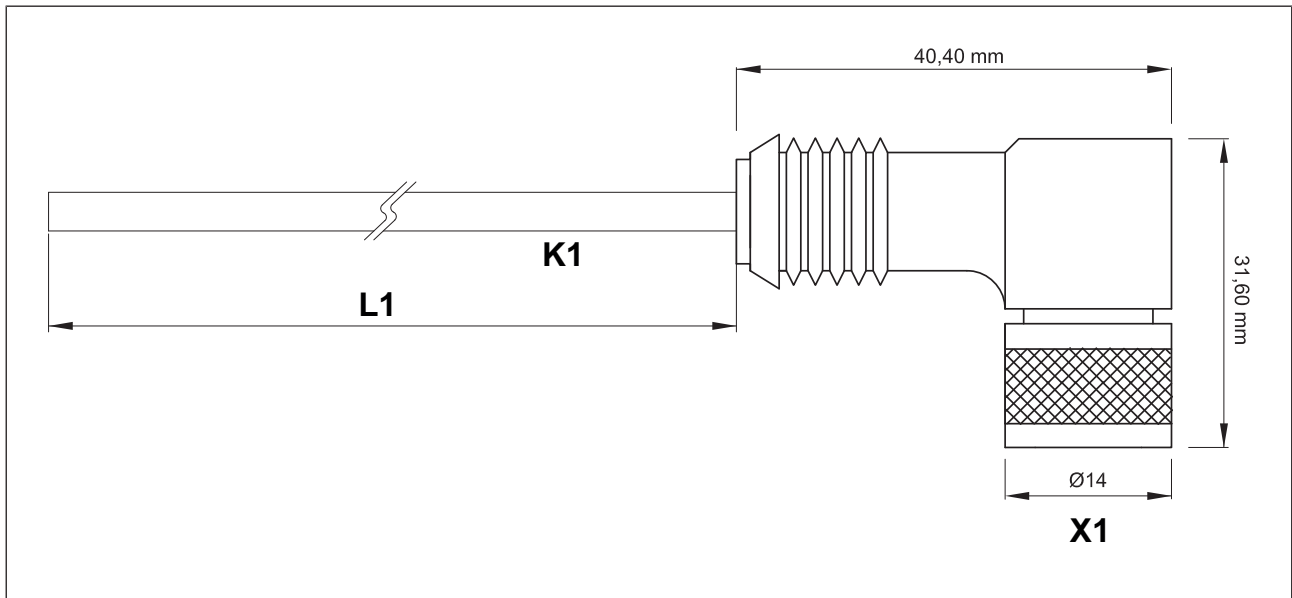
#### ► M12 female connector, straight:



# Accessories

## PSEN op Cable M12 8p sh

► M12 female connector, angled:



# Accessories

## PSEN op Cable M12 8p sh

### Technical details Order no. 630313 - 630315

General	630313	630314	630315
Certifications	CE, UKCA, cULus Listed	CE, UKCA, cULus Listed	CE, UKCA, cULus Listed
Electrical data	630313	630314	630315
Rated voltage			
Voltage UB	30 V	30 V	30 V
Rated current	2 A	2 A	2 A
Test voltage	3.000 V	3.000 V	3.000 V
Typ. conductor resistance K1	82 Ohm/km	82 Ohm/km	82 Ohm/km
Insulation resistance	100 MOhm	100 MOhm	100 MOhm
Volume resistance	3 mOhm	3 mOhm	3 mOhm
Specific volume resistance K1	$\geq 7E+15$ Ohm*cm	$\geq 7E+15$ Ohm*cm	$\geq 7E+15$ Ohm*cm
Specific cable capacitance K1	59,8pF/m	59,8pF/m	59,8pF/m
Environmental data	630313	630314	630315
Ambient temperature			
Temperature range	-25 - 80 °C	-25 - 80 °C	-25 - 80 °C
Airgap creepage			
Pollution degree	3	3	3
Protection type			
X1 when inserted	IP67	IP67	IP67
Housing	IP67	IP67	IP67
Mechanical data	630313	630314	630315
Plug-in connector X1	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
Form, plug-in connector X1	Straight	Straight	Straight
Coding of plug-in connector X1	A-coded	A-coded	A-coded
Housing material X1	PUR	PUR	PUR
Material of contact surface X1	Au	Au	Au
Material of socket	CuSn	CuSn	CuSn
Conductor material K1	Cu	Cu	Cu
Insulating cover for conductor K1	PP (9Y)	PP (9Y)	PP (9Y)
Mating cycles X1	100	100	100
Cable type K1	Li9YC11Y	Li9YC11Y	Li9YC11Y

# Accessories

## PSEN op Cable M12 8p sh

<b>Mechanical data</b>	<b>630313</b>	<b>630314</b>	<b>630315</b>
Cable length L1	<b>3 m</b>	<b>5 m</b>	<b>10 m</b>
Material of shield surface cable K1	<b>Sn</b>	<b>Sn</b>	<b>Sn</b>
Colour of external cable insulation K1	<b>Yellow, similar to RAL1003</b>	<b>Yellow, similar to RAL1003</b>	<b>Yellow, similar to RAL1003</b>
Colour of housing	<b>black</b>	<b>black</b>	<b>black</b>
Cable insulation material K1	<b>PUR, TPU / TPE-U</b>	<b>PUR, TPU / TPE-U</b>	<b>PUR, TPU / TPE-U</b>
Drag chain suitable K1	<b>No</b>	<b>No</b>	<b>No</b>
Min. bending radius (fixed permanently) K1	<b>5 x Ø</b>	<b>5 x Ø</b>	<b>5 x Ø</b>
Min. bending radius (moving) K1	<b>10 x Ø</b>	<b>10 x Ø</b>	<b>10 x Ø</b>
Cable diameter K1	<b>6,6 mm</b>	<b>6,6 mm</b>	<b>6,6 mm</b>
Max. cable diameter K1	<b>6,75 mm</b>	<b>6,75 mm</b>	<b>6,75 mm</b>
Conductor cross section K1	<b>0,25 mm<sup>2</sup></b>	<b>0,25 mm<sup>2</sup></b>	<b>0,25 mm<sup>2</sup></b>
Conductor cross section AWG K1	<b>24</b>	<b>24</b>	<b>24</b>
Wire colour K1	<b>White, brown, green, yellow, grey, pink, blue, red</b>	<b>White, brown, green, yellow, grey, pink, blue, red</b>	<b>White, brown, green, yellow, grey, pink, blue, red</b>
Stranding K1	<b>8 cores around filler</b>	<b>8 cores around filler</b>	<b>8 cores around filler</b>
Shielding K1	<b>yes</b>	<b>yes</b>	<b>yes</b>
Shield type K1	<b>Wire mesh</b>	<b>Wire mesh</b>	<b>Wire mesh</b>
Wire layer separation K1	<b>yes</b>	<b>yes</b>	<b>yes</b>
No. of wires K1	<b>8</b>	<b>8</b>	<b>8</b>
Certification cable K1	<b>UL AWM-Style 20233, UL/CSA</b>	<b>UL AWM-Style 20233, UL/CSA</b>	<b>UL AWM-Style 20233, UL/CSA</b>
Certification plug-in connector X1	<b>UL94 V-0</b>	<b>UL94 V-0</b>	<b>UL94 V-0</b>
Halogen-free	<b>yes</b>	<b>yes</b>	<b>yes</b>
Silicone-free	<b>yes</b>	<b>yes</b>	<b>yes</b>
Oil resistance	<b>Resistant</b>	<b>Resistant</b>	<b>Resistant</b>
Non-flammability	<b>UL VW1</b>	<b>UL VW1</b>	<b>UL VW1</b>
Material			
Housing	<b>PUR</b>	<b>PUR</b>	<b>PUR</b>
Weight	<b>224 g</b>	<b>354 g</b>	<b>612 g</b>

# Accessories

## PSEN op Cable M12 8p sh

### Technical details Order no. 630316 - 630318

General	630316	630317	630318
Certifications	CE, UKCA, cULus Listed	CE, UKCA, cULus Listed	CE, UKCA, cULus Listed
Electrical data	630316	630317	630318
Rated voltage			
Voltage UB	30 V	30 V	30 V
Rated current	2 A	2 A	2 A
Test voltage	3.000 V	3.000 V	3.000 V
Typ. conductor resistance K1	82 Ohm/km	82 Ohm/km	82 Ohm/km
Insulation resistance	100 MOhm	100 MOhm	100 MOhm
Volume resistance	3 mOhm	3 mOhm	3 mOhm
Specific volume resistance K1	$\geq 7E+15$ Ohm*cm	$\geq 7E+15$ Ohm*cm	$\geq 7E+15$ Ohm*cm
Specific cable capacitance K1	59,8pF/m	59,8pF/m	59,8pF/m
Environmental data	630316	630317	630318
Ambient temperature			
Temperature range	-25 - 80 °C	-25 - 80 °C	-25 - 80 °C
Airgap creepage			
Pollution degree	3	3	3
Protection type			
X1 when inserted	IP67	IP67	IP67
Housing	IP67	IP67	IP67
Mechanical data	630316	630317	630318
Plug-in connector X1	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
Form, plug-in connector X1	Angled	Angled	Angled
Coding of plug-in connector X1	A-coded	A-coded	A-coded
Housing material X1	PUR	PUR	PUR
Material of contact surface X1	Au	Au	Au
Material of socket	CuSn	CuSn	CuSn
Conductor material K1	Cu	Cu	Cu
Insulating cover for conductor K1	PP (9Y)	PP (9Y)	PP (9Y)
Mating cycles X1	100	100	100
Cable type K1	Li9YC11Y	Li9YC11Y	Li9YC11Y

# Accessories

## PSEN op Cable M12 8p sh

<b>Mechanical data</b>	<b>630316</b>	<b>630317</b>	<b>630318</b>
Cable length L1	<b>3 m</b>	<b>5 m</b>	<b>10 m</b>
Material of shield surface cable K1	<b>Sn</b>	<b>Sn</b>	<b>Sn</b>
Colour of external cable insulation K1	<b>Yellow, similar to RAL1003</b>	<b>Yellow, similar to RAL1003</b>	<b>Yellow, similar to RAL1003</b>
Colour of housing	<b>black</b>	<b>black</b>	<b>black</b>
Cable insulation material K1	<b>PUR, TPU / TPE-U</b>	<b>PUR, TPU / TPE-U</b>	<b>PUR, TPU / TPE-U</b>
Drag chain suitable K1	<b>No</b>	<b>No</b>	<b>No</b>
Min. bending radius (fixed permanently) K1	<b>5 x Ø</b>	<b>5 x Ø</b>	<b>5 x Ø</b>
Min. bending radius (moving) K1	<b>10 x Ø</b>	<b>10 x Ø</b>	<b>10 x Ø</b>
Cable diameter K1	<b>6,6 mm</b>	<b>6,6 mm</b>	<b>6,6 mm</b>
Max. cable diameter K1	<b>6,75 mm</b>	<b>6,75 mm</b>	<b>6,75 mm</b>
Conductor cross section K1	<b>0,25 mm<sup>2</sup></b>	<b>0,25 mm<sup>2</sup></b>	<b>0,25 mm<sup>2</sup></b>
Conductor cross section AWG K1	<b>24</b>	<b>24</b>	<b>24</b>
Wire colour K1	<b>White, brown, green, yellow, grey, pink, blue, red</b>	<b>White, brown, green, yellow, grey, pink, blue, red</b>	<b>White, brown, green, yellow, grey, pink, blue, red</b>
Stranding K1	<b>8 cores around filler</b>	<b>8 cores around filler</b>	<b>8 cores around filler</b>
Shielding K1	<b>yes</b>	<b>yes</b>	<b>yes</b>
Shield type K1	<b>Wire mesh</b>	<b>Wire mesh</b>	<b>Wire mesh</b>
Wire layer separation K1	<b>yes</b>	<b>yes</b>	<b>yes</b>
No. of wires K1	<b>8</b>	<b>8</b>	<b>8</b>
Certification cable K1	<b>UL AWM-Style 20233, UL/CSA</b>	<b>UL AWM-Style 20233, UL/CSA</b>	<b>UL AWM-Style 20233, UL/CSA</b>
Certification plug-in connector X1	<b>UL94 V-0</b>	<b>UL94 V-0</b>	<b>UL94 V-0</b>
Halogen-free	<b>yes</b>	<b>yes</b>	<b>yes</b>
Silicone-free	<b>yes</b>	<b>yes</b>	<b>yes</b>
Oil resistance	<b>Resistant</b>	<b>Resistant</b>	<b>Resistant</b>
Non-flammability	<b>UL VW1</b>	<b>UL VW1</b>	<b>UL VW1</b>
Material			
Housing	<b>PUR</b>	<b>PUR</b>	<b>PUR</b>
Weight	<b>227 g</b>	<b>358 g</b>	<b>696 g</b>

# Accessories

## PSEN op Cable M12 8p sh

### Technical details Order no. 630328 - 630368

General	630328	630329	630368
Certifications	CE, UKCA, cULus Listed	CE, UKCA, cULus Listed	CE, UKCA, cULus Listed
Electrical data	630328	630329	630368
Rated voltage			
Voltage UB	30 V	30 V	30 V
Rated current	2 A	2 A	2 A
Test voltage	3.000 V	3.000 V	3.000 V
Typ. conductor resistance K1	82 Ohm/km	82 Ohm/km	82 Ohm/km
Insulation resistance	100 MOhm	100 MOhm	100 MOhm
Volume resistance	3 mOhm	3 mOhm	3 mOhm
Specific volume resistance K1	$\geq 7E+15$ Ohm*cm	$\geq 7E+15$ Ohm*cm	$\geq 7E+15$ Ohm*cm
Specific cable capacitance K1	59,8pF/m	59,8pF/m	59,8pF/m
Environmental data	630328	630329	630368
Ambient temperature			
Temperature range	-25 - 80 °C	-25 - 80 °C	-25 - 80 °C
Airgap creepage			
Pollution degree	3	3	3
Protection type			
X1 when inserted	IP67	IP67	IP67
Housing	IP67	IP67	IP67
Mechanical data	630328	630329	630368
Plug-in connector X1	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
Form, plug-in connector X1	Straight	Angled	Straight
Coding of plug-in connector X1	A-coded	A-coded	A-coded
Housing material X1	PUR	PUR	PUR
Material of contact surface X1	Au	Au	Au
Material of socket	CuSn	CuSn	CuSn
Conductor material K1	Cu	Cu	Cu
Insulating cover for conductor K1	PP (9Y)	PP (9Y)	PP (9Y)
Mating cycles X1	100	100	100
Cable type K1	Li9YC11Y	Li9YC11Y	Li9YC11Y

# Accessories

## PSEN op Cable M12 8p sh

<b>Mechanical data</b>	<b>630328</b>	<b>630329</b>	<b>630368</b>
Cable length L1	<b>30 m</b>	<b>30 m</b>	<b>50 m</b>
Material of shield surface cable K1	<b>Sn</b>	<b>Sn</b>	<b>Sn</b>
Colour of external cable insulation K1	<b>Yellow, similar to RAL1003</b>	<b>Yellow, similar to RAL1003</b>	<b>Yellow, similar to RAL1003</b>
Colour of housing	<b>black</b>	<b>black</b>	<b>black</b>
Cable insulation material K1	<b>PUR, TPU / TPE-U</b>	<b>PUR, TPU / TPE-U</b>	<b>PUR, TPU / TPE-U</b>
Drag chain suitable K1	<b>No</b>	<b>No</b>	<b>No</b>
Min. bending radius (fixed permanently) K1	<b>5 x Ø</b>	<b>5 x Ø</b>	<b>5 x Ø</b>
Min. bending radius (moving) K1	<b>10 x Ø</b>	<b>10 x Ø</b>	<b>10 x Ø</b>
Cable diameter K1	<b>6,6 mm</b>	<b>6,6 mm</b>	<b>6,6 mm</b>
Max. cable diameter K1	<b>6,75 mm</b>	<b>6,75 mm</b>	<b>6,75 mm</b>
Conductor cross section K1	<b>0,25 mm<sup>2</sup></b>	<b>0,25 mm<sup>2</sup></b>	<b>0,25 mm<sup>2</sup></b>
Conductor cross section AWG K1	<b>24</b>	<b>24</b>	<b>24</b>
Wire colour K1	<b>White, brown, green, yellow, grey, pink, blue, red</b>	<b>White, brown, green, yellow, grey, pink, blue, red</b>	<b>White, brown, green, yellow, grey, pink, blue, red</b>
Stranding K1	<b>8 cores around filler</b>	<b>8 cores around filler</b>	<b>8 cores around filler</b>
Shielding K1	<b>yes</b>	<b>yes</b>	<b>yes</b>
Shield type K1	<b>Wire mesh</b>	<b>Wire mesh</b>	<b>Wire mesh</b>
Wire layer separation K1	<b>yes</b>	<b>yes</b>	<b>yes</b>
No. of wires K1	<b>8</b>	<b>8</b>	<b>8</b>
Certification cable K1	<b>UL AWM-Style 20233, UL/CSA</b>	<b>UL AWM-Style 20233, UL/CSA</b>	<b>UL AWM-Style 20233, UL/CSA</b>
Certification plug-in connector X1	<b>UL94 V-0</b>	<b>UL94 V-0</b>	<b>UL94 V-0</b>
Halogen-free	<b>yes</b>	<b>yes</b>	<b>yes</b>
Silicone-free	<b>yes</b>	<b>yes</b>	<b>yes</b>
Oil resistance	<b>Resistant</b>	<b>Resistant</b>	<b>Resistant</b>
Non-flammability	<b>UL VW1</b>	<b>UL VW1</b>	<b>UL VW1</b>
Material			
Housing	<b>PUR</b>	<b>PUR</b>	<b>PUR</b>
Weight	<b>2.050 g</b>	<b>2.021 g</b>	<b>2.970 g</b>



# Accessories

## PSEN op Cable M12 8p sh

Technical details Order no. 630369

### General

Certifications **CE, UKCA, cULus Listed**

### Electrical data

Rated voltage	
Voltage UB	<b>30 V</b>
Rated current	<b>2 A</b>
Test voltage	<b>3.000 V</b>
Typ. conductor resistance K1	<b>82 Ohm/km</b>
Insulation resistance	<b>100 MOhm</b>
Volume resistance	<b>3 mOhm</b>
Specific volume resistance K1	<b>&gt;= 7E+15 Ohm*cm</b>
Specific cable capacitance K1	<b>59,8pF/m</b>

### Environmental data

Ambient temperature	
Temperature range	<b>-25 - 80 °C</b>
Airgap creepage	
Pollution degree	<b>3</b>
Protection type	
X1 when inserted	<b>IP67</b>
Housing	<b>IP67</b>

### Mechanical data

Plug-in connector X1	<b>M12, 8-pin female connector</b>
In accordance with the standard	<b>EN 61076-2-101</b>
Form, plug-in connector X1	<b>Angled</b>
Coding of plug-in connector X1	<b>A-coded</b>
Housing material X1	<b>PUR</b>
Material of contact surface X1	<b>Au</b>
Material of socket	<b>CuSn</b>
Conductor material K1	<b>Cu</b>
Insulating cover for conductor K1	<b>PP (9Y)</b>
Mating cycles X1	<b>100</b>
Cable type K1	<b>Li9YC11Y</b>
Cable length L1	<b>50 m</b>
Material of shield surface cable K1	<b>Sn</b>
Colour of external cable insulation K1	<b>Yellow, similar to RAL1003</b>
Colour of housing	<b>black</b>
Cable insulation material K1	<b>PUR, TPU / TPE-U</b>
Drag chain suitable K1	<b>No</b>
Min. bending radius (fixed permanently) K1	<b>5 x Ø</b>

# Accessories

## PSEN op Cable M12 8p sh

<b>Mechanical data</b>	
Min. bending radius (moving) K1	<b>10 x Ø</b>
Cable diameter K1	<b>6,6 mm</b>
Max. cable diameter K1	<b>6,75 mm</b>
Conductor cross section K1	<b>0,25 mm<sup>2</sup></b>
Conductor cross section AWG K1	<b>24</b>
Wire colour K1	<b>White, brown, green, yellow, grey, pink, blue, red</b>
Stranding K1	<b>8 cores around filler</b>
Shielding K1	<b>yes</b>
Shield type K1	<b>Wire mesh</b>
Wire layer separation K1	<b>yes</b>
No. of wires K1	<b>8</b>
Certification cable K1	<b>UL AWM-Style 20233, UL/CSA</b>
Certification plug-in connector X1	<b>UL94 V-0</b>
Halogen-free	<b>yes</b>
Silicone-free	<b>yes</b>
Oil resistance	<b>Resistant</b>
Non-flammability	<b>UL VW1</b>
Material	
Housing	<b>PUR</b>
Weight	<b>2.960 g</b>

### Order reference

<b>Product type</b>	<b>Features</b>	<b>Connector X1</b>	<b>Connector X2</b>	<b>Order no.</b>
PSEN op cable axial M12 8-p. shield. 3 m	3 m	M12 female connector, straight		630313
PSEN op cable axial M12 8-p. shield. 5 m	5 m	M12 female connector, straight		630314
PSEN op cable axial M12 8-p. shield. 10 m	10 m	M12 female connector, straight		630315
PSEN op cable angle M12 8-p. shield. 3 m	3 m	M12 female connector, angled		630316
PSEN op cable angle M12 8-p. shield. 5 m	5 m	M12 female connector, angled		630317
PSEN op cable angle M12 8-p. shield. 10 m	10 m	M12 female connector, angled		630318
PSEN op cable axial M12 8-p. shield. 30 m	30 m	M12 female connector, straight		630328
PSEN op cable angle M12 8-p. shield. 30 m	30 m	M12 female connector, angled		630329

# Accessories

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## PSEN op Cable M12 8p sh

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Product type	Features	Connector X1	Connector X2	Order no.
PSEN op cable axial M12 8-p. shield. 50 m	50 m	M12 female connector, straight		630368
PSEN op cable angle M12 8-p. shield. 50 m	50 m	M12 female connector, angled		630369