

Cabling accessories

OsiSense XZ

Catalogue





Opting for sensors incorporating a connector gives you a quick and high performance solution

In the event of having to replace a sensor on a machine, this is achieved very quickly using products with connectors. Telemecanique Sensors offers you **OsiSense XZ**, a complete range of machine cabling accessories featuring 3 types of cable to suit the environment.

> PVC cable for general use

The most economical and competitive offer

> PUR cable for severe industrial environments

The highest performance offer, whatever the conditions

> Reinforced PVC cable for food and beverage processing environments

The highest degree of protection and most resistant offer

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> PVC cable for general use

The OsiSense XZ range of PVC pre-wired connectors and jumper cables for general use is recommended for machines in non demanding environments and subject only to moderate mechanical stress. These products are particularly suited to assembly, material handling and packaging machines.

PVC
Economy &
competitiveness

The sheath colour distinguishes the two versions available:

- Grey sheath for versions with metric connectors (M8 and M12)
- Yellow sheath for versions with imperial connectors (1/2" and 7/8").



The + of the PVC range

Good resistance

- to moderate mechanical stress
- to chemical products
- to humid environments

Easy cable stripping
UL certified



> PUR cable for severe industrial environments

The OsiSense XZ range of very high performance PUR (polyurethane) pre-cabled connectors and jumper cables is designed for the most demanding industrial requirements. This offer is ideal for machines using lubricants, cooling oils and grease and subject to severe mechanical stress (cable flexing and friction). These cables are ideal for the automobile, machine tool and hydraulic machine sectors. Their excellent flexibility enables intensive use for alternating movements such as those associated with cable carriers, robotics, turntables, etc. They are halogen free, UL certified and have high degrees of protection (IP67 and IP69K).

0 discharge,
halogen free

4 million
alternating
(flexing)
operations



The + of the PUR range

Good resistance

- to severe mechanical stress (friction, abrasion, torsion)
- to hot and cold oils, greases and lubricants

Halogen free
UL certified



> Reinforced PVC cable for food and beverage processing environments

The OsiSense XZ range of reinforced PVC pre-cabled connectors and jumper cables is specially designed for the food and beverage processing industry. Featuring hygienic design stainless steel 316L connectors with smooth clamping ring, these products are designed to withstand high pressure washing and disinfection using aggressive products.

IP69K
& Stainless steel
316L
resistance
assurance



the + of the PVC food range

Good resistance

- to high pressure cleaning (IP69K and smooth, stainless steel, clamping ring)
- to disinfection using aggressive products



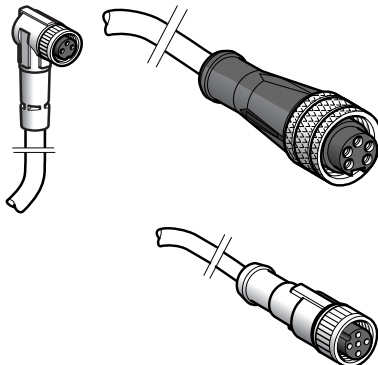
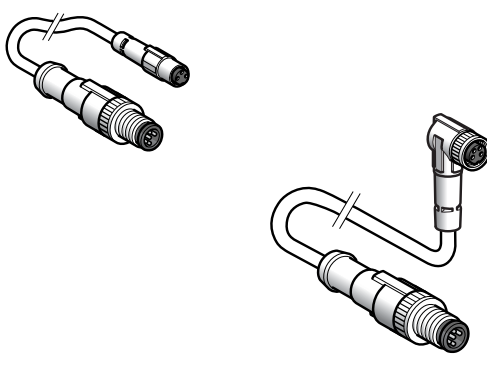
Accessories

The OsiSense XZ range is also a complete range of connectors and splitter boxes that are compatible with these pre-wired connectors and jumper cables.



100%

Availability throughout the world

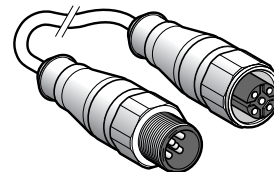
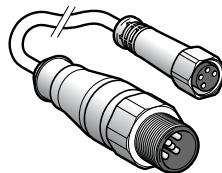
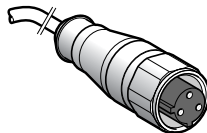
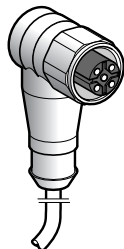
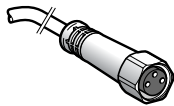
Description		Pre-wired connectors								Jumper cables (female–male)									
																			
Type		M8 Ø 8	M12			1/2"- 20UNF	7/8"- 16UN		M8 – M8			M8 – M12		M12 – M8		M12 – M12		DIN – M12	
	Female	•	• (1)			•			• (M8)					• (M12)				• (DIN) (2)	
	Male	•	• (1)			–			• (M8)			• (M12)		• (M8)		• (M12)			
Connection	Clip	•	–					•					–						
	Screw threaded	•						•											
Model	Straight	•						•									–		
	Elbowed	•	• (3)			•	–		•										
Number of pins		3	4	3	4	5	3			3	4	3			4	5	3		
Signalling	Without LED	•	–			•			•										
	With LED	•	–	•	–			•											
Nominal voltage	– 10...30 V (with LED)	•	–	•	–			–											
	~ 30, – 36 V	–				•	–						•		–	•			
	~ 60, – 75 V	•	–										–						
	~ 125, – 150 V	–																	
	~ 250, – 300 V	–	•			–	•	–						•		–			
	~ 250 V	–						•											
		3 or 4				6	4 or 6	4											
		•	–	• (4)			–												
Cable length	0.5 m	•	–	• (4)			–												
	1 m	•	–	• (4)			–												
	2 m																		
	5 m	•																	
	10 m	•	• (3)			•													
		•	• (3)			•													
Reference		XZ CP								XZ CR									
Pages		12 to 15 (PVC cable) 18 to 23 (PUR cable)								16 and 17 (PVC cable) 24 to 31 (PUR cable)									

(1) With 4 or 5 pins.
(2) EN 175301-803-A (ex-DIN 43650).
(3) For female pre-wired connectors.
(4) For male pre-wired connectors.

• Characteristics applicable to the cabling accessory.
– Characteristics not applicable to the cabling accessory.

Pre-wired connectors - Application series

PVC cable, stainless steel clamping ring and IP 69K degree of protection



M8	M12	1/2"-20UNF
•	•	•
–	–	–

—				
● (1)				
●				
—				
		●	●	
3	4	4	5	3
●				
—				

–
–
•
–
–
–
–
4
–
–
–
–
•
•
•

M8 – M12	M12 – M12
• (M8)	• (M12)
• (M12)	• (M12)

—			
● (1)			
●			
—			
4	3	4	5
●			
—			

–
–
•
–
–
–
–
4
–
–
–
•
•
–

XZ CPA

32 and 33

XZ CRA

34 and 35

(1) Tightening by hand recommended.

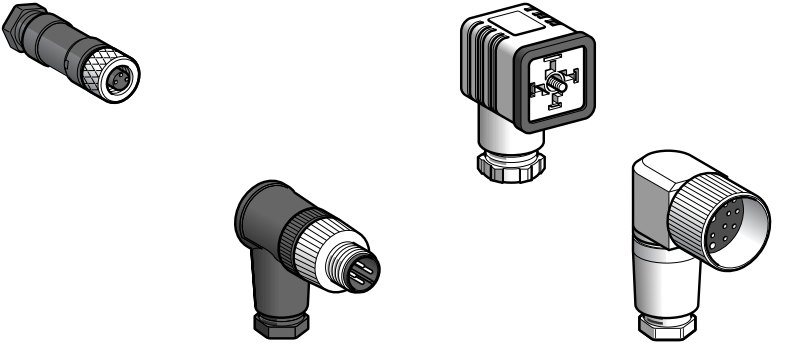
• Characteristics applicable to the cabling accessory.

– Characteristics not applicable to the cabling accessory.

Description

Type	Female
	Male
Connection	Clip
	Screw threaded
Model	Straight
	Elbowed
Number of pins	
Signalling	Without LED
	With LED
Nominal voltage	$\overline{\sim}$ 10...30 V (with LED)
	\sim 30, $\overline{\sim}$ 36 V
	\sim 60, $\overline{\sim}$ 75 V
	\sim 125, $\overline{\sim}$ 150 V
	\sim 250, $\overline{\sim}$ 300 V
	\sim 250 V
Current (A)	
Cable length	0.5 m
	1 m
	2 m
	5 m
	10 m
Reference	
Pages	

Connectors

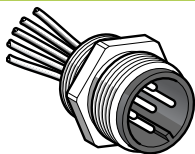
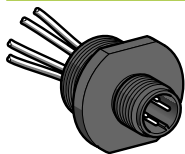


M8	M12	1/2"-20UNF	M18	EN 175301-803-A (ex-DIN 43650)	M23
•					
•			–		•
–					
•					
•				–	•
•					
3	4	5	3	4	19
•					
–	•	–			
–	•	–			
–					
•	–				•
–	•	–			
–					–
–			•		–
4	3	4	16		7.5
–					
–					
–					
–					
–					

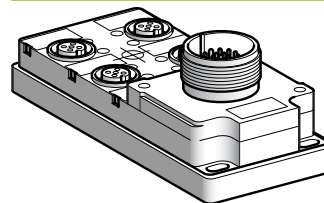
XZ CC

36 to 45
• Characteristics applicable to the cabling accessory. – Characteristics not applicable to the cabling accessory.

Connector adaptors



Passive splitter boxes (1)



M12		7/8"-16UN	4 or 8 channel
—			● (M12)
●			—
—			—
●			—
●			●
—			—
4	5		19
●			●
—			●
—			—
—			—
—			—
●		●	—
—			—
4	6		4 per channel
Length of wires: 0.10m			—
			—
			—
			—
			●
			●

XZ CE

46

ABE 9

Please refer to the www.schneider-electric.com web site

(1) For other splitter boxes, please refer to the www.schneider-electric.com web site.

● Characteristics applicable to the cabling accessory.

— Characteristics not applicable to the cabling accessory.

Other versions

Please consult our Customer Care Centre.

Presentation

To meet the requirements of different application sectors, Telemecanique Sensors offer a full range of connection accessories.

When used with OsiSense sensors these accessories must not only withstand the same electrical and mechanical stresses but, above all, the same environmental conditions.

As far as pre-wired connectors and particularly jumper cables are concerned, we have adapted each type of component.

They can be divided into three broad categories:

PVC cables: OsiSense XZ CPV and XZ CRV

- Areas of application:
 - General use in packaging and conveying
 - Assembly lines in the paper and card industry
 - Small machines
 - Can withstand moderate mechanical stress

- Main characteristics:
 - Very good value for money
 - Good water resistance
 - Good frictional resistance
 - Avoid permanent contact with oil and grease

PUR cables: OsiSense XZ CP and XZ CR

- Areas of application:
 - Products with high mechanical and chemical performance, recommended for all industrial applications in the automotive, machine tools, handling, cable carrier and robotics sectors

The composition of their insulating sheaths means that these cables do not give off halogen or produce corrosive or toxic gases.

Therefore, OsiSense XZ CP and XZ CR cables can be used in public places.

- Main characteristics:
 - Good resistance to oil, grease and coolants
 - Good bending strength and abrasion resistance
 - Good UV resistance
 - Zero halogen
 - Very high degree of protection: IP 65, IP 67 and IP 69K

PVC cables with reinforced connector: OsiSense XZ CPA and XZ CRA

- Areas of application:
 - Specially developed for the food and beverage sector

- Main characteristics:
 - Enhanced protection: IP 68/IP 69K
 - Very good water resistance
 - Impervious to detergents, disinfectants and chemicals
 - Can withstand moderate mechanical stress

For your cabling kits, Telemecanique Sensors offer:

- User cabled OsiSense XZ CC connectors (with screw, insulation displacement or solder connections)
- OsiSense XZ CE connector adaptors, for wall feed-throughs (for enclosures, junction boxes, etc.)



PVC cables: OsiSense XZ CPV and XZ CRV



PUR cables: OsiSense XZ CP and XZ CR



PVC cables with reinforced connector:
OsiSense XZ CPA and XZ CRA

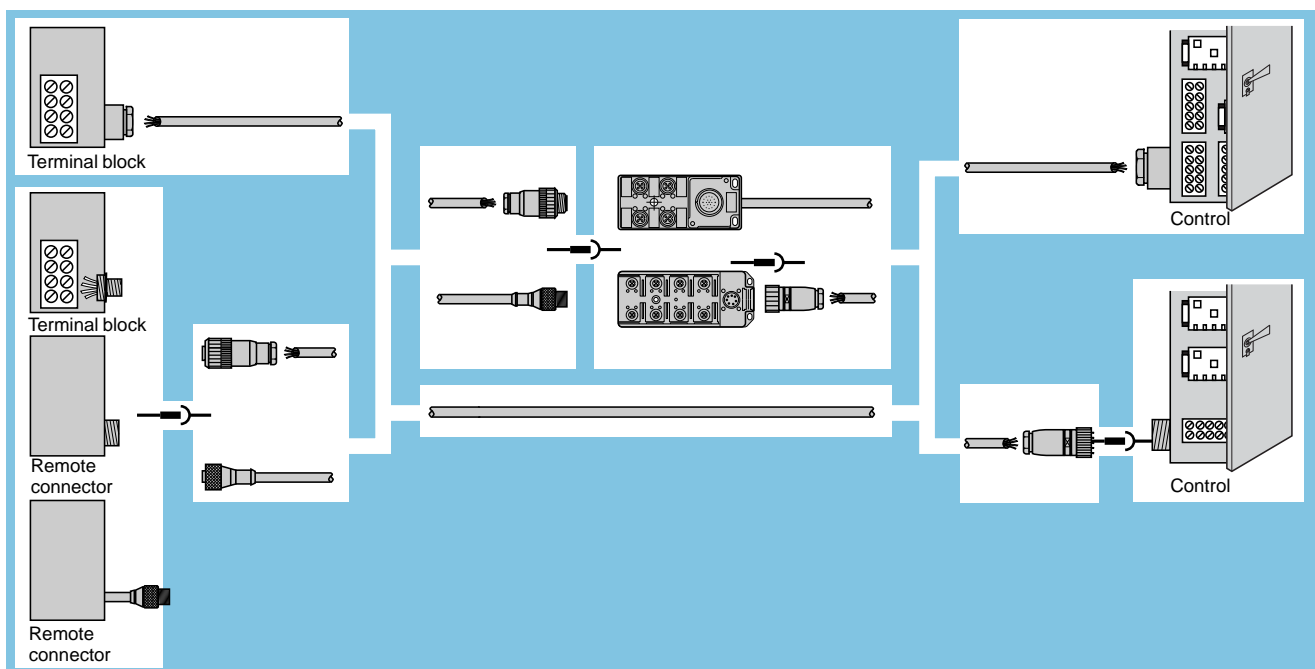
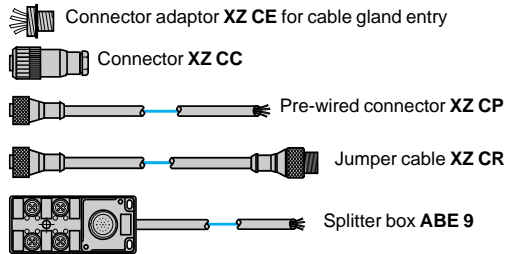


OsiSense XZ CC
connectors

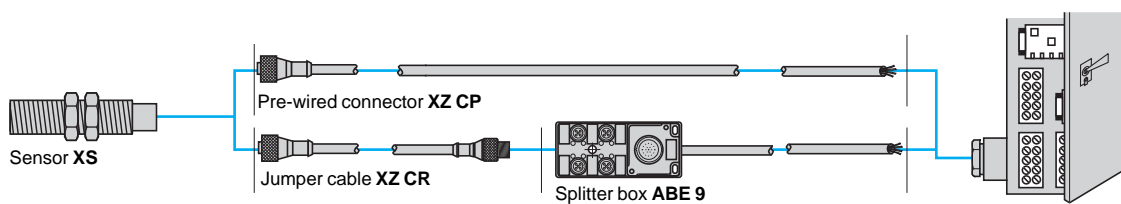


OsiSense XZ CE
connector adaptors

Cabling accessories



Connection example



Characteristics			
Type of cable		General use cables XZ CPV and XZ CRV See pages 12 to 15	High performance cables XZ CP and XZ CR See pages 18 to 31
Ambient air temperature	For operation	°C - 25...+ 80	- 40...+ 80 for static cable - 5...+ 80 for flexing cable
	For storage	°C - 55...+ 80	- 40...+ 80
Colour		Grey, with metric connector Yellow, with imperial connector	Matt black
Material	Sheath	PVC (polyvinyl chloride)	PUR (polyurethane)
	Conductor insulation	PVC (polyvinyl chloride)	PP (polypropylene)
Manufacturing method		Without silicone and without demoulding agent	Without silicone and without demoulding agent
Nominal voltage		V ~ 250, --- 300	320, conforming to DIN VDE 0110 (III/3)
Insulation voltage		kV 2.5	2.5
Flame resistance		VW-1 conforming to UL758	UL-FT2
Environmental resistance		Conditions of use where not continuously immersed	Resistant to: - hydrocarbons - mineral or synthetic oils at 90°C, conforming to DIN/EN 60811-2-1
Bending radius		Static: 10 x external diameter	Static: 10 x external diameter
Resistance to flexing		–	4 million operations at 20°C, in the following conditions: - minimum radius 10 x D - pitch 10 m - speed: 3 m/s - acceleration: 10 m/s ²
Tensile strength		N/mm ² 10	20...45
Hardness		70 +/- 5 shore A	80 +/- 5 shore A

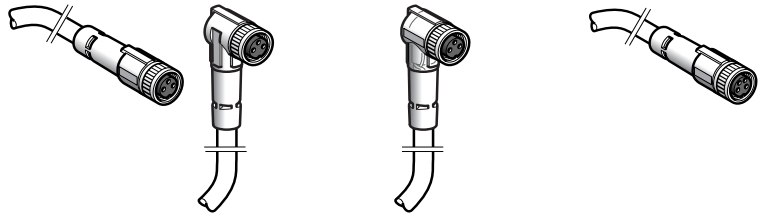
Application series cables with reinforced insulation XZ CPA and XZ CRA See pages 32 to 35	Bare cable XZ CB4L0●● See page 47
- 25...+ 95	- 35...+ 90
- 25...+ 95	- 40...+ 100
Matt black	Matt black
PVC	PvR (PVC/NBR)
PVC	PVC
Without silicone and without demoulding agent	Without silicone and without demoulding agent
~ 250, --- 300	300
3	2, conforming to NFC 32-201-1
C2 conforming to NF C 32-070	C2 conforming to NF C 32-070
Resistant to solvents and detergents	Resistant to soluble, mineral or synthetic oils at 90°C
Static: 10 x external diameter	R min. = 3 x external diameter
—	—
11	10...35
80 +/- 5 shore A	70 +/- 5 shore A

Machine cabling accessories

OsiSense XZ

Pre-wired connectors, M8 and M12

PVC cable



Connector type	Female, M8, straight	Female, M8, elbowed	Female, M8, elbowed with PNP LED	Female, M8, straight
Number of pins	3	3	3	4

References

PVC cable	L = 1 m	—	—	—	—
	L = 2 m	XZ CPV0566L2	XZ CPV0666L2	XZ CPV0766L2	XZ CPV0941L2
	L = 5 m	XZ CPV0566L5	XZ CPV0666L5	XZ CPV0766L5	XZ CPV0941L5
	L = 10 m	XZ CPV0566L10	XZ CPV0666L10	XZ CPV0766L10	XZ CPV0941L10
Weight (kg)		0.084 (L = 2 m), 0.153 (L = 5 m), 0.316 (L = 10 m)	0.084 (L = 2 m), 0.153 (L = 5 m), 0.316 (L = 10 m)	0.090 (L = 2 m), 0.180 (L = 5 m), 0.360 (L = 10 m)	0.100 (L = 2 m), 0.200 (L = 5 m), 0.380 (L = 10 m)

Characteristics

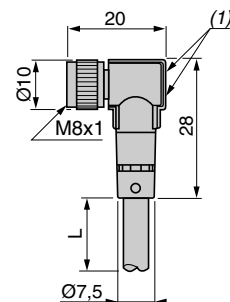
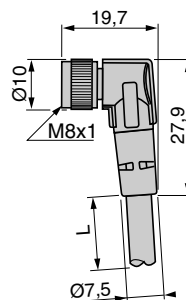
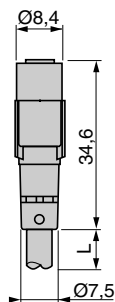
Certifications		UL	UL	
Connection type		Screw threaded (metal clamping ring)	Screw threaded (metal clamping ring)	
Cable material		PVC, grey		
Degree of protection		IP 65, IP 67	IP 65, IP 67	
Ambient air temperature	Static cable	- 25...+ 80°C	- 25...+ 80°C	
Cabling		Ø 4.6 mm cable, conductor c.s.a.: 3 x 0.25 mm²	Ø 4.6 mm cable, conductor c.s.a.: 3 x 0.25 mm²	Ø 4.6 mm cable, conductor c.s.a.: 4 x 0.25 mm²
LED indicators		–	2 PNP LEDs	–
Nominal voltage		~ 60 V, --- 75 V	--- 10...30 V	~ 60 V, --- 75 V
Nominal current		3 A	3 A	3 A
Nominal tightening torque		0.2 Nm	0.2 Nm	0.2 Nm
Insulation resistance		> 10 ⁹ Ω	> 10 ⁹ Ω	> 10 ⁹ Ω
Contact resistance		≤ 5 m Ω	≤ 5 m Ω	≤ 5 m Ω

Dimensions

XZ CPV0566L● and XZ CPV0941L●

XZ CPV0666L●

XZ CPV0766L●

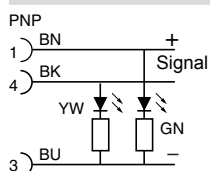


(1) 2 LEDs limited to --- 10...30 V max.
L = 2, 5 or 10 m

Connections

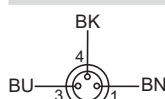
LED connection

XZ CPV0766L●

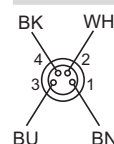


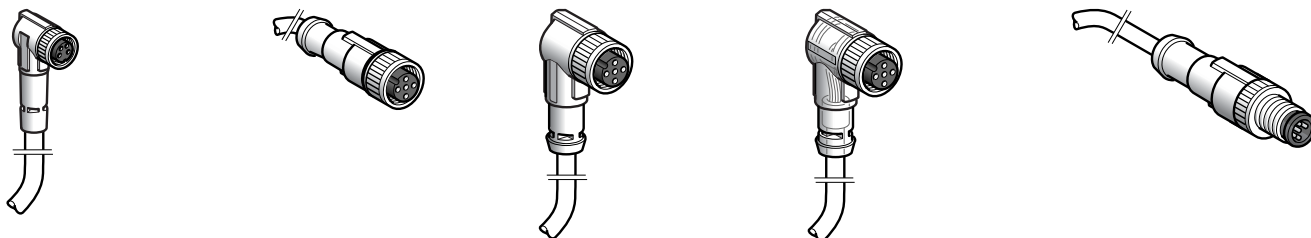
Connector

XZ CPV0666L●



XZ CPV0941L●





Female, M8, elbowed	Female, M12, straight	Female, M12, elbowed	Female, M12, elbowed with PNP LED	Male, M12, straight
4	4	4	3	4
–	–	–	–	XZ CPV1541L1
XZ CPV1041L2	XZ CPV1141L2	XZ CPV1241L2	XZ CPV1340L2	XZ CPV1541L2
XZ CPV1041L5	XZ CPV1141L5	XZ CPV1241L5	XZ CPV1340L5	XZ CPV1541L5
XZ CPV1041L10	XZ CPV1141L10	XZ CPV1241L10	XZ CPV1340L10	–
0.100 (L = 2 m), 0.200 (L = 5 m), 0.380 (L = 10 m)	0.110 (L = 2 m), 0.210 (L = 5 m), 0.390 (L = 10 m)	0.110 (L = 2 m), 0.210 (L = 5 m), 0.390 (L = 10 m)	0.110 (L = 2 m), 0.210 (L = 5 m), 0.390 (L = 10 m)	0.052 (L = 1 m), 0.090 (L = 2 m), 0.200 (L = 5 m)
UL				
Screw threaded (metal clamping ring)				
PVC, grey				
IP 65, IP 67				
- 25...+ 80°C				
Ø 4.6 mm cable, conductor c.s.a.: 4 x 0.25 mm ²	Ø 4.6 mm cable, conductor c.s.a.: 4 x 0.25 mm ²	Ø 4.6 mm cable, conductor c.s.a.: 4 x 0.25 mm ²	Ø 4.6 mm cable, conductor c.s.a.: 3 x 0.25 mm ²	Ø 4.6 mm cable, conductor c.s.a.: 4 x 0.25 mm ²
–	–	–	2 PNP LEDs	–
~ 60 V, ~ 75 V	~ 250 V, ~ 300 V	~ 250 V, ~ 300 V	~ 10...30 V	~ 250 V, ~ 300 V
3 A	3 A	3 A	3 A	3 A
0.2 Nm	0.4 Nm	0.4 Nm	0.4 Nm	0.4 Nm
> 10 ⁹ Ω	> 10 ⁹ Ω	> 10 ⁹ Ω	> 10 ⁹ Ω	> 10 ⁹ Ω
≤ 5 mΩ	≤ 5 mΩ	≤ 5 mΩ	≤ 5 mΩ	≤ 5 mΩ

XZ CPV1041L●	XZ CPV1141L●	XZ CPV1241L●	XZ CPV13040L●	XZ CPV1541L●

(1) 2 LEDs limited to ~ 10...30 V max.
L = 2, 5 or 10 m

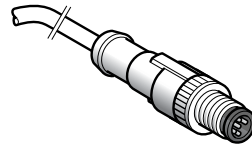
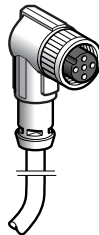
L = 1, 2 or 5 m

LED connection	Connectors			
XZ CPV1340L●	XZ CPV1041L●	XZ CPV1141L● and XZ CPV1241L●	XZ CPV13040L●	XZ CPV1541L●

Machine cabling accessories

OsiSense XZ

Pre-wired connectors, M8, M12, 1/2"-20UNF and 7/8"-16UN
PVC cable



Connector type	Female, M12, straight	Female, M12, elbowed	Male, M12, straight
Number of pins	5	5	5

References

PVC cable	L = 1 m	–	–	XZ CPV1564L1
	L = 2 m	XZ CPV1164L2	XZ CPV1264L2	XZ CPV1564L2
	L = 5 m	XZ CPV1164L5	XZ CPV1264L5	XZ CPV1564L5
	L = 10 m	XZ CPV1164L10	XZ CPV1264L10	–
Weight (kg)		0.100 (L = 2 m), 0.180 (L = 5 m), 0.360 (L = 10 m)	0.100 (L = 2 m), 0.180 (L = 5 m), 0.360 (L = 10 m)	0.075 (L = 1 m), 0.100 (L = 2 m), 0.180 (L = 5 m)

Characteristics

Certifications	UL
Connection type	Screw threaded (metal clamping ring)
Cable material	PVC, grey
Degree of protection	IP 65, IP 67
Ambient air temperature	Static cable – 25...+ 80°C
Cabling	Ø 5.2 mm cable, conductor c.s.a.: 5 x 0.25 mm ²
Nominal voltage	~ 250 V, --- 300 V
Nominal current	3 A
Nominal tightening torque	0.4 Nm
Insulation resistance	> 10 ⁹ Ω
Contact resistance	≤ 5 m Ω

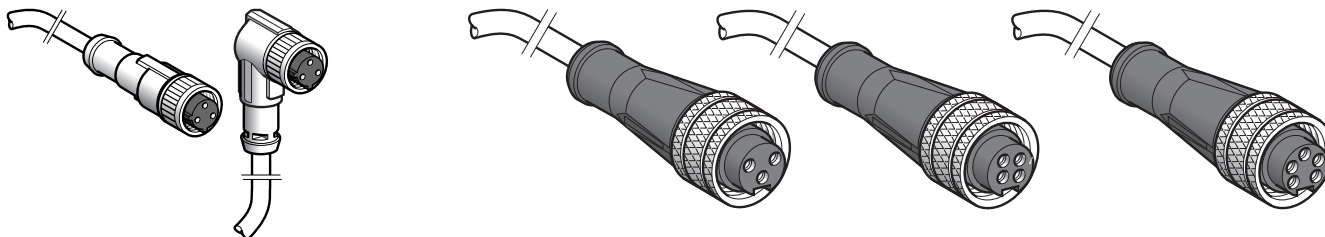
Dimensions

XZ CPV1164L●	XZ CPV1264L●	XZ CPV1564L●

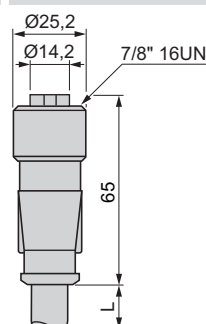
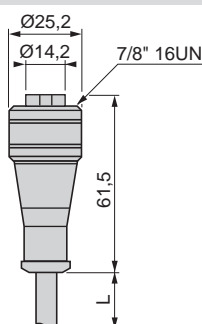
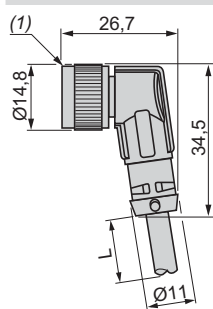
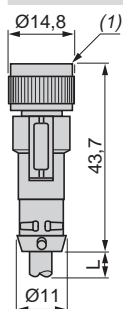
L = 1, 2, 5 or 10 m

Connections

Connectors	
XZ CPV1164L● and XZ CPV1264L●	XZ CPV1564L●



Female, 1/2"-20UNF, straight	Female, 1/2"-20UNF, elbowed	Female, 7/8"-16UN, straight	Female, 7/8"-16UN, straight	Female, 7/8"-16UN, straight
3	3	3	4	5
–	–	–	–	–
XZ CPV1865L2	XZ CPV1965L2	XZ CPV1670L2	XZ CPY4275L2 ▲	XZ CPY1764L2 ▲
XZ CPV1865L5	XZ CPV1965L5	XZ CPV1670L5	XZ CPY4275L5 ▲	XZ CPY1764L5 ▲
XZ CPV1865L10	XZ CPV1965L10	XZ CPV1670L10	XZ CPY4275L10 ▲	XZ CPY1764L10 ▲
0.140 (L = 2 m), 0.350 (L = 5 m), 0.700 (L = 10 m)	0.140 (L = 2 m), 0.350 (L = 5 m), 0.700 (L = 10 m)	0.300 (L = 2 m), 0.500 (L = 5 m), 0.850 (L = 10 m)	0.340 (L = 1.8 m = 6 feet), 0.850 (L = 4.6 m = 15 feet), 1.700 (L = 9.2 m = 30 feet)	0.400 (L = 1.8 m = 6 feet), 1.000 (L = 4.6 m = 15 feet), 1.900 (L = 9.2 m = 30 feet)
UL		–		
Screw threaded (metal clamping ring)		Screw threaded (metal clamping ring)		
PVC, yellow		PVC, yellow	PVC, yellow, STOOW	
IP 65, IP 67		IP 67		
- 25...+ 80°C		- 25...+ 80°C		
Ø 4.6 mm cable, conductor c.s.a.: 3 x 0.34 mm²		Ø 5.2 mm cable, conductor c.s.a.: 3 x 0.75 mm²	Ø 10.8 mm cable, conductor c.s.a.: 4 x 1.5 mm² (AWG 16)	Ø 8.1 mm cable, conductor c.s.a.: 5 x 1.5 mm² (AWG 16)
~ 250 V, --- 300 V		~ 250 V, --- 300 V	---/~ 600 V	---/~ 600 V
4 A		7 A	10 A	10 A
0.4 Nm		0.8 Nm	0.8 Nm	0.8 Nm
> 10⁹ Ω		> 10⁹ Ω	> 10⁹ Ω	> 10⁹ Ω
≤ 5 m Ω		≤ 5 m Ω	≤ 5 m Ω	≤ 5 m Ω
XZ CPV1865L●	XZ CPV1965L●	XZ CPV1670L●	XZ CPY4275L● and XZ CPY1764L●	

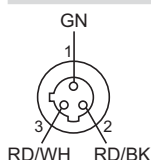


(1) 1/2"-20UNF
L = 2, 5 or 10 m

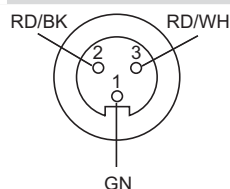
▲: Available 2nd half 2012.

Connectors

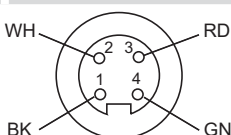
XZ CPV1865L● and XZ CPV1965L●



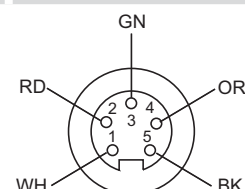
XZ CPV1670L●

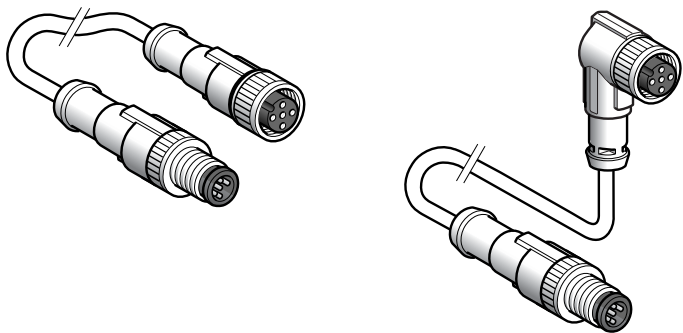


XZ CPY4275L●



XZ CPY1764L●

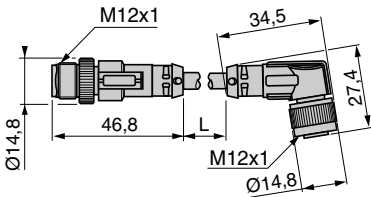
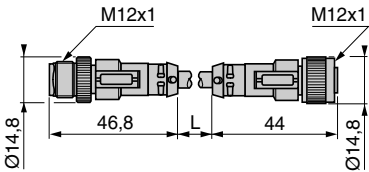




Male connector type	M12, 3-pin, straight		
Female connector type	M12, 3-pin, straight	M12, 3-pin, elbowed	
Number of conductors	3	3	
References			
PVC cable	L = 1 m	XZ CRV1511040A1	XZ CRV1512040A1
	L = 2 m	XZ CRV1511040A2	XZ CRV1512040A2
Weight (kg)	0.064 (L = 1 m)	0.068 (L = 1 m)	
	0.099 (L = 2 m)	0.100 (L = 2 m)	

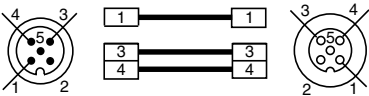
Characteristics		
Certifications	UL	
Connection type	Male and female: screw threaded (metal clamping ring)	
Degree of protection	IP 65, IP 67	
Ambient air temperature	Static cable	- 25...+ 80°C
Cabling	Ø 4.6 mm cable, conductor c.s.a.: 3 x 0.25 mm²	
Nominal voltage	~ 250 V, --- 300 V	
Nominal current	3 A	
Nominal tightening torque	0.4 Nm	
Insulation resistance	> 10 ⁹ Ω	
Contact resistance	≤ 5 m Ω	

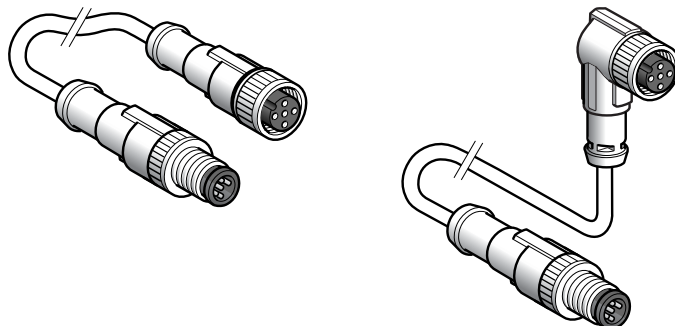
Dimensions	
XZ CRV1511040A●	XZ CRV1512040A●



L = 1 or 2 m

Connections
XZ CRV1511040A● and XZ CRV1512040A●





Male connector type	M12, 4-pin, straight	
Female connector type	M12, 4-pin, straight	M12, 4-pin, elbowed
Number of conductors	4	

References

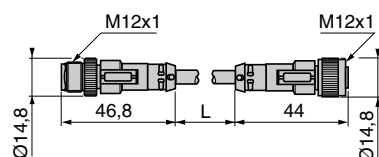
PVC cable	L = 1 m	XZ CRV1511041C1	XZ CRV1512041C1
	L = 2 m	XZ CRV1511041C2	XZ CRV1512041C2
	L = 5 m	XZ CRV1511041C5	XZ CRV1512041C5
Weight (kg)		0.064 (L = 1 m) 0.109 (L = 2 m) 0.140 (L = 5 m)	0.067 (L = 1 m) 0.106 (L = 2 m) 0.230 (L = 5 m)

Characteristics

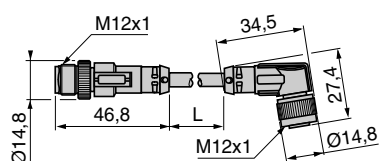
Certifications		UL
Connection type		Male and female: screw threaded (metal clamping ring)
Degree of protection		IP 65, IP 67
Ambient air temperature	Static cable	- 25... + 80°C
Cabling		Ø 4.6 mm cable, conductor c.s.a.: 4 x 0.25 mm²
Nominal voltage		~ 250 V, --- 300 V
Nominal current		3 A
Nominal tightening torque		0.4 Nm
Insulation resistance		> 10 ⁹ Ω
Contact resistance		≤ 5 m Ω

Dimensions

XZ CRV1511041C●



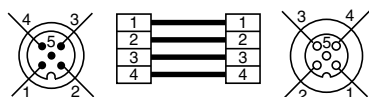
XZ CRV1512041C●



L = 1, 2 or 5 m

Connections

XZ CRV1511041C● and XZ CRV1512041C●

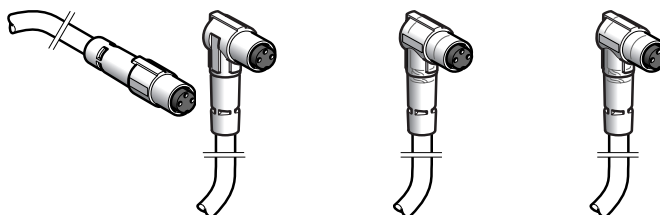


Machine cabling accessories

OsiSense XZ

Pre-wired connectors, Ø 8 mm and M8

PUR cable



Connector type	Female, Ø 8 mm, straight	Female, Ø 8 mm, elbowed	Female, Ø 8 mm, elbowed with PNP LED	Female, Ø 8 mm, elbowed with NPN LED
Number of pins	3			

References

PUR cable (see page 10)	L = 2 m	XZ CP0166L2	XZ CP0266L2	XZ CP0366L2	XZ CP0466L2
	L = 5 m	XZ CP0166L5	XZ CP0266L5	XZ CP0366L5	XZ CP0466L5
	L = 10 m	XZ CP0166L10	XZ CP0266L10	XZ CP0366L10	XZ CP0466L10
Weight (kg)	0.050 (L = 2 m), 0.110 (L = 5 m), 0.215 (L = 10 m)				

Characteristics

Certifications	UL		UL	
Connection type	Clip (1)		Clip (1)	
Cable material	PUR sheath PP conductor insulation		PUR sheath PP conductor insulation	
Degree of protection	IP 65, IP 67, IP 69K		IP 65, IP 67, IP 69K	
Ambient air temperature	Static cable	- 40...+ 80°C	- 40...+ 80°C	
	Flexing cable	- 5...+ 80°C	- 5...+ 80°C	
Cabling	Ø 4.4 mm cable, conductor c.s.a.: 3 x 0.34 mm ²		Ø 4.4 mm cable, conductor c.s.a.: 3 x 0.34 mm ²	
LED indicators	—		2 PNP LEDs	2 NPN LEDs
Nominal voltage	~ 60 V, ~ 75 V		~ 10...30 V	
Nominal current	4 A		4 A	
Insulation resistance	> 10 ⁹ Ω		> 10 ⁹ Ω	
Contact resistance	≤ 5 m Ω		≤ 5 m Ω	

Dimensions

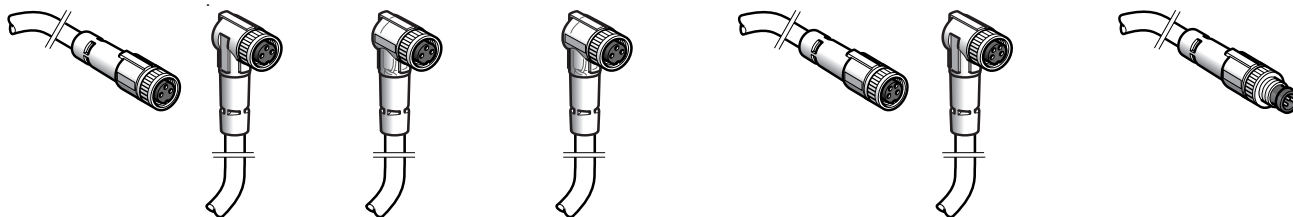
XZ CP0166L●	XZ CP0266L●	XZ CP0366L●, XZ CP0466L●

(1) 2 LEDs limited to ~ 10...30 V max.
L = 2, 5 or 10 m

Connections

XZ CP0166L●	LED connection	XZ CP0466L●
	<p>PNP</p>	<p>NPN</p>

(1) Clip together connectors, without clamping ring.



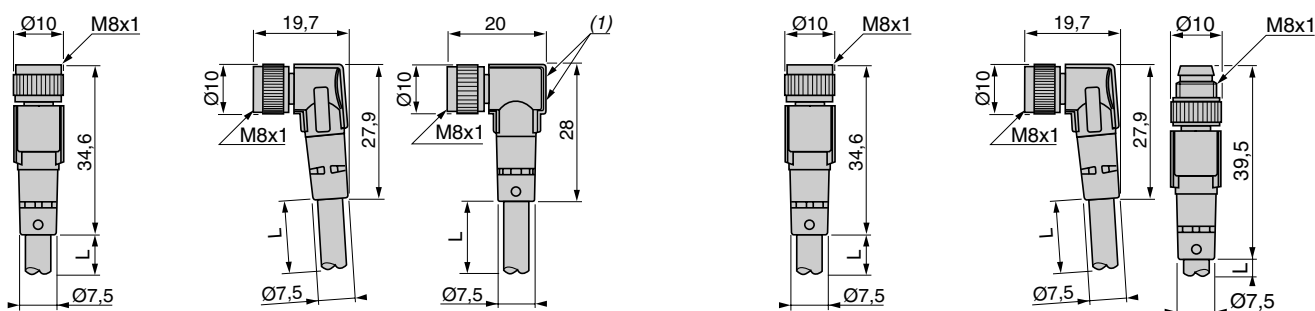
Female, M8, straight	Female, M8, elbowed	Female, M8, elbowed with PNP LED	Female, M8, elbowed with NPN LED	Female, M8, straight	Female, M8, elbowed	Male, M8, straight
3				4		3

XZ CP0566L2	XZ CP0666L2	XZ CP0766L2	XZ CP0866L2	XZ CP0941L2	XZ CP1041L2	XZ CP2737L05
XZ CP0566L5	XZ CP0666L5	XZ CP0766L5	XZ CP0866L5	XZ CP0941L5	XZ CP1041L5	XZ CP2737L1
XZ CP0566L10	XZ CP0666L10	XZ CP0766L10	XZ CP0866L10	XZ CP0941L10	XZ CP1041L10	XZ CP2737L2

0.060 (L = 2 m), 0.120 (L = 5 m), 0.225 (L = 10 m)				0.080 (L = 2 m), 0.180 (L = 5 m), 0.360 (L = 10 m)		0.030 (L = 0.5 m), 0.050 (L = 1 m), 0.080 (L = 2 m)
----------------------------------------------------------	--	--	--	----------------------------------------------------------	--	-----------------------------------------------------------

UL	UL	UL	UL
Screw threaded (metal clamping ring)	Screw threaded (metal clamping ring)	Screw threaded (metal clamping ring)	Screw threaded and clip (metal clamping ring)
PUR sheath PP conductor insulation	PUR sheath PP conductor insulation	PUR sheath PP conductor insulation	PUR sheath, PP conductor insulation
IP 65, IP 67, IP 69K	IP 65, IP 67, IP 69K	IP 65, IP 67, IP 69K	IP 65, IP 67, IP 69K
- 40...+ 80°C	- 40...+ 80°C	- 40...+ 80°C	- 40...+ 80°C
- 5...+ 80°C	- 5...+ 80°C	- 5...+ 80°C	- 5...+ 80°C
Ø 4.4 mm cable, conductor c.s.a.: 3 x 0.34 mm²	Ø 4.4 mm cable, conductor c.s.a.: 3 x 0.34 mm²	Ø 4.7 mm cable, conductor c.s.a.: 4 x 0.34 mm²	Ø 4.4 mm cable, conductor c.s.a.: 3 x 0.34 mm²
–	2 PNP LEDs	2 NPN LEDs	–
~ 60 V, ~ 75 V	~ 10...30 V	~ 60 V, ~ 75 V	~ 60 V, ~ 75 V
4 A	4 A	4 A	4 A
> 10 ⁹ Ω	> 10 ⁹ Ω	> 10 ⁹ Ω	> 10 ⁹ Ω
≤ 5 m Ω	≤ 5 m Ω	≤ 5 m Ω	≤ 5 m Ω

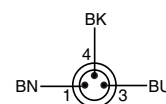
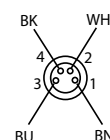
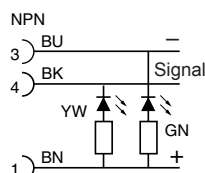
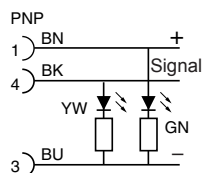
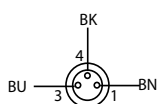
XZ CP0566L●	XZ CP0666L●	XZ CP0766L●, XZ CP0866L●	XZ CP0941L●	XZ CP1041L●	XZ CP2737L●
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L = 2, 5 or 10 m

L = 0.5, 1 or 2 m

	LED connection			
XZ CP0●66L●	XZ CP0766L●	XZ CP0866L●	XZ CP●●41L●	XZ CP2737L●

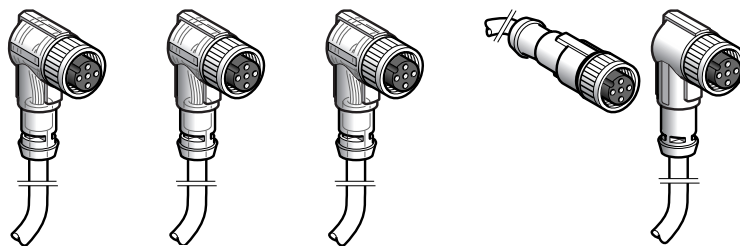


Machine cabling accessories

OsiSense XZ

Pre-wired connectors, M12

PUR cable



Connector type	Female, M12, elbow with LED	Female, M12, elbow with LED	Female, M12, elbow with LED	Female, M12, straight	Female, M12, elbow
Number of pins	3			4	

References

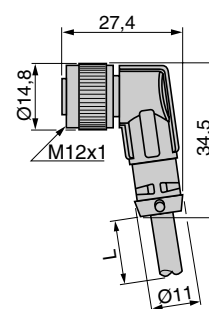
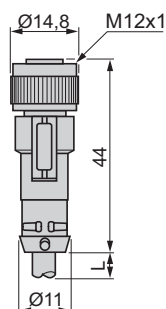
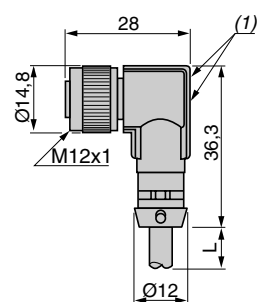
PUR cable (see page 10)	L = 0.5 m	—				
	L = 1 m	—				
	L = 2 m	XZ CP2540L2	XZ CP1340L2	XZ CP1440L2	XZ CP1141L2	XZ CP1241L2
	L = 5 m	XZ CP2540L5	XZ CP1340L5	XZ CP1440L5	XZ CP1141L5	XZ CP1241L5
	L = 10 m	XZ CP2540L10	XZ CP1340L10	XZ CP1440L10	XZ CP1141L10	XZ CP1241L10
	L = 15 m	—	—	—	XZ CP1141L15	XZ CP1241L15
	L = 20 m	—	—	—	XZ CP1141L20	XZ CP1241L20
Weight (kg)		0.080 (L = 2 m), 0.180 (L = 5 m), 0.350 (L = 10 m)			0.090 (L = 2 m), 0.190 (L = 5 m), 0.370 (L = 10 m),	0.500 (L = 15 m), 0.750 (L = 20 m)

Characteristics

Certifications	UL			UL	
Connection type	Screw threaded (stainless steel clamping ring)		Screw threaded (metal clamping ring)		Screw threaded (metal clamping ring)
Cable material	PUR sheath, PP conductor insulation			PUR sheath, PP conductor insulation	
Degree of protection	IP 65, IP 67, IP 69K			IP 65, IP 67, IP 69K	
Ambient air temperature	Static cable	- 40...+ 80°C			- 40...+ 80°C
	Flexing cable	- 5...+ 80°C			- 5...+ 80°C
Cabling	Ø 4.4 mm cable, conductor c.s.a.: 3 x 0.34 mm²			Ø 4.7 mm cable, conductor c.s.a.: 4 x 0.34 mm²	
LED indicators	2 PNP LEDs	2 PNP LEDs	2 NPN LEDs	—	
Nominal voltage	~ 10...30 V			~ 250 V, ~ 300 V	
Nominal current	4 A			4 A	
Insulation resistance	> 10 ⁹ Ω			> 10 ⁹ Ω	
Contact resistance	≤ 5 m Ω			≤ 5 m Ω	

Dimensions

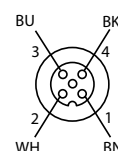
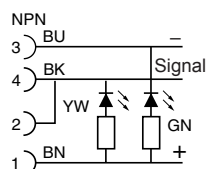
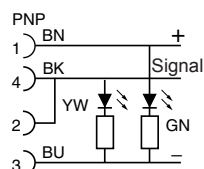
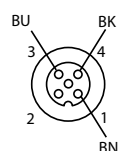
XZ CP2540L●, XZ CP1340L●, XZ CP1440L●	XZ CP1141L●	XZ CP1241L●
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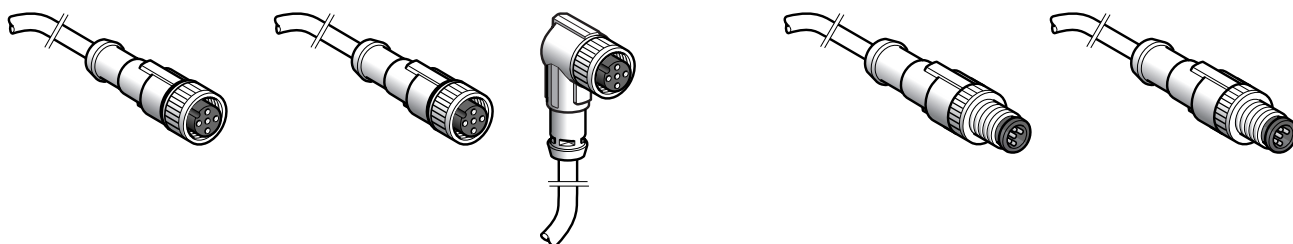


(1) 2 LEDs limited to ~ 10...30 V max.
L = 2, 5 or 10 m

Connections

LED connection			
XZ CP2540L●, XZ CP1340L●	XZ CP1440L●	XZ CP1141L●	XZ CP1241L●



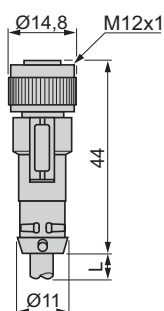


Female, M12, straight	Female, M12, straight	Female, M12, elbowed	Male, M12, straight	Male, M12, straight
4	5	5	4	5
-			XZ CP1541L05	XZ CP1564L05
-			XZ CP1541L1	XZ CP1564L1
XZ CP1169L2	XZ CP1164L2	XZ CP1264L2	XZ CP1541L2	XZ CP1564L2
XZ CP1169L5	XZ CP1164L5	XZ CP1264L5	-	-
XZ CP1169L10	XZ CP1164L10	XZ CP1264L10	-	-
-	-	-	-	-
-	-	-	-	-
0.105 (L = 2 m), 0.260 (L = 5 m), 0.500 (L = 10 m)	0.115 (L = 2 m), 0.270 (L = 5 m), 0.520 (L = 10 m)		0.030 (L = 0.5 m), 0.050 (L = 1 m), 0.085 (L = 2 m)	0.040 (L = 0.5 m), 0.065 (L = 1 m), 0.115 (L = 2 m)
UL				
Screw threaded (metal clamping ring)			Screw threaded (metal clamping ring)	
PUR sheath, PP conductor insulation			PUR sheath, PP conductor insulation	
IP 65, IP 67, IP 69K			IP 65, IP 67, IP 69K	
- 40... + 80°C			- 40... + 80°C	
- 5... + 80°C			- 5... + 80°C	
Ø 4.7 mm cable, conductor c.s.a.: 4 x 0.34 mm ²	Ø 5.0 mm cable, conductor c.s.a.: 5 x 0.34 mm ²		Ø 4.7 mm cable, conductor c.s.a.: 4 x 0.34 mm ²	Ø 5.0 mm cable, conductor c.s.a.: 4 x 0.34 mm ² + 1 x 0.5 mm ²
-	-		-	-
~ 250 V, ~ 300 V	~ 30 V, ~ 36 V		~ 250 V, ~ 300 V	~ 30 V, ~ 36 V
4 A	4 A		4 A	4 A
> 10 ⁹ Ω	> 10 ⁹ Ω		> 10 ⁹ Ω	> 10 ⁹ Ω
≤ 5 m Ω	≤ 5 m Ω		≤ 5 m Ω	≤ 5 m Ω

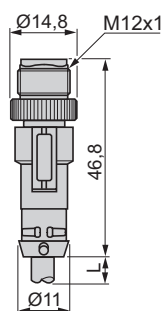
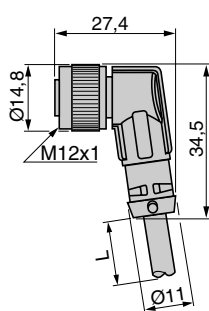
XZ CP1169L●, XZ CP1164L●

XZ CP1264L●

XZ CP1541L●, XZ CP1564L●



L = 2, 5 or 10 m



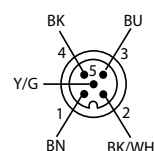
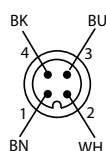
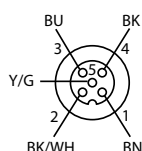
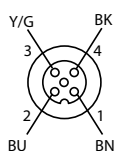
L = 0.5, 1 or 2 m

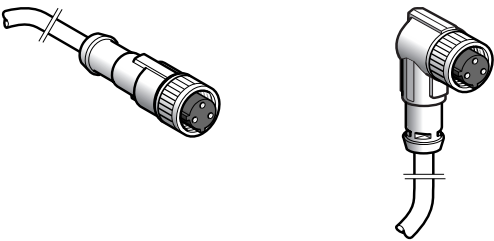
XZ CP1169L●

XZ CP1●64L●

XZ CP1541L●

XZ CP1564L●





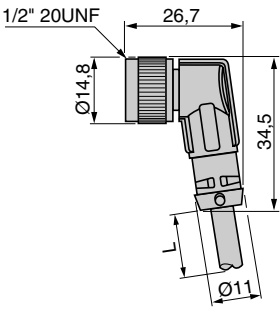
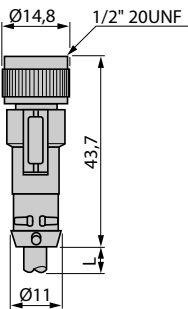
Connector type	Female, 1/2"-20UNF, straight	Female, 1/2"-20UNF, elbowed
Number of pins	3	

References			
PUR cable (see page 10)	L = 2 m	XZ CP1865L2	XZ CP1965L2
	L = 5 m	XZ CP1865L5	XZ CP1965L5
	L = 10 m	XZ CP1865L10	XZ CP1965L10

Weight (kg)	0.080 (L = 2 m), 0.180 (L = 5 m), 0.350 (L = 10 m)
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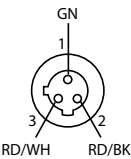
Characteristics	
Certifications	UL
Connection type	Screw threaded (metal clamping ring)
Cable material	PUR/PVC sheath, PVC conductor insulation
Degree of protection	IP 67 (with connector correctly tightened)
Ambient air temperature	- 35...+ 80°C
Cabling	Ø 5.2 mm cable, conductor c.s.a.: 3 x 0.34 mm²
LED indicators	–
Nominal voltage	~ 250 V, --- 300 V
Nominal current	4 A
Insulation resistance	> 10 ⁹ Ω
Contact resistance	≤ 5 m Ω

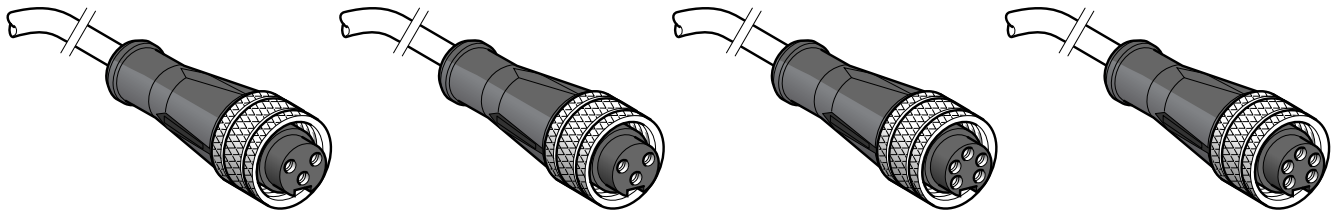
Dimensions	
XZ CP1865L●	XZ CP1965L●



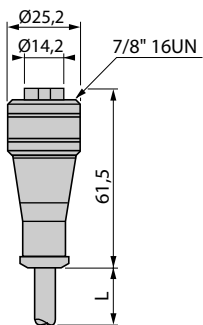
L = 2, 5 or 10 m

Connections	
XZ CP1●65L●	



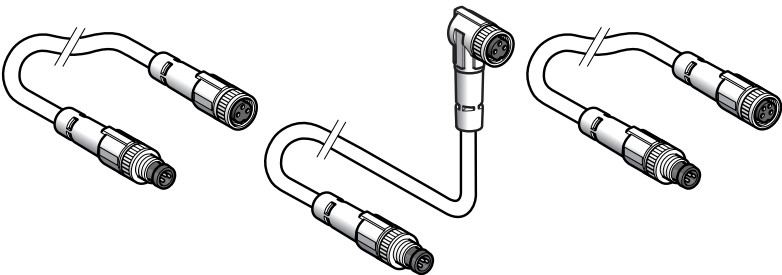


Female, 7/8"-16UN, straight		Female, 7/8"-16UN, straight	
3		5	
XZ CP1662L2	XZ CP1670L2	XZ CP1764L2	XZ CP1774L2
XZ CP1662L5	XZ CP1670L5	XZ CP1764L5	XZ CP1774L5
–	XZ CP1670L10	XZ CP1764L10	XZ CP1774L10
0.180 (L = 2 m), 0.420 (L = 5 m)	0.180 (L = 2 m), 0.420 (L = 5 m), 0.820 (L = 10 m)	0.185 (L = 2 m), 0.460 (L = 5 m), 0.900 (L = 10 m)	0.240 (L = 2 m), 0.450 (L = 5 m), 0.800 (L = 10 m)
–			
Screw threaded (metal clamping ring)		Screw threaded (metal clamping ring)	
PUR/PVC sheath, PVC conductor insulation		PUR/PVC sheath, PVC conductor insulation	PUR sheath, PP conductor insulation
IP 67 (with connector correctly tightened)		IP 67 (with connector correctly tightened)	
– 35...+ 80°C		– 35...+ 80°C	
Ø 5 mm cable, conductor c.s.a.: 3 x 0.5 mm ²	Ø 5 mm cable, conductor c.s.a.: 3 x 0.5 mm ²	Ø 5.9 mm cable, conductor c.s.a.: 5 x 0.34 mm ²	Ø 5 mm cable, conductor c.s.a.: 5 x 0.34 mm ²
–	–	–	–
~ 250 V	~ 250 V	~ 250 V	~ 250 V/– 300 V
6 A	6 A	4 A	4 A
> 10 ⁹ Ω	> 10 ⁹ Ω	> 10 ⁹ Ω	> 10 ⁹ Ω
≤ 5 m Ω	≤ 5 m Ω	≤ 5 m Ω	≤ 5 m Ω
XZ CP1662L●, XZ CP1670L●, XZ CP1764L●, XZ CP1774L●			



L = 2, 5 or 10 m

XZ CP1662L●	XZ CP1670L●	XZ CP1764L●	XZ CP1774L●

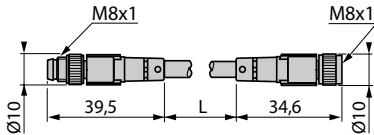
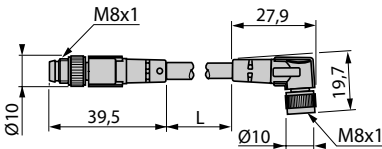
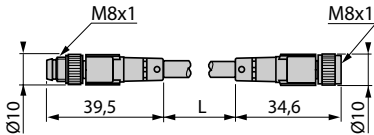


Male connector type	M8, 3-pin, straight		
Female connector type	M8, 3-pin, straight	M8, 3-pin, elbowed	M8, 4-pin, straight
Number of conductors	3	3	3

References				
PUR cable (see page 10)	L = 1 m	XZ CR2705037R1	XZ CR2706037R1	XZ CR2709037S1
	L = 2 m	XZ CR2705037R2	XZ CR2706037R2	XZ CR2709037S2
Weight (kg)	L = 1 m	0.060		
	L = 2 m	0.090		

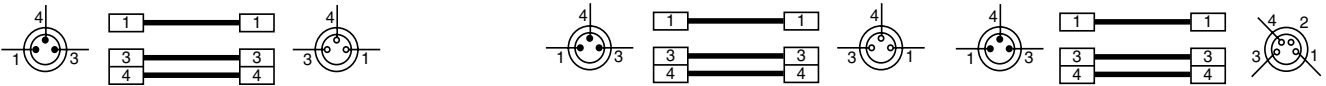
Characteristics	
Certifications	UL
Connection type	Male: screw threaded and clip. Female: screw threaded. Metal clamping ring.
Cable material	PUR sheath, PP conductor insulation
Degree of protection	IP 65, IP 67, IP 69K
Ambient air temperature	Static cable - 40...+ 80°C
	Flexing cable - 5...+ 80°C
Conductor c.s.a.	3 x 0.34 mm ²
Cable diameter	4.4 mm
Nominal voltage	~ 60 V, ~ 45 V
Nominal current	4 A
Insulation resistance	> 10 ⁹ Ω
Contact resistance	≤ 5 m Ω

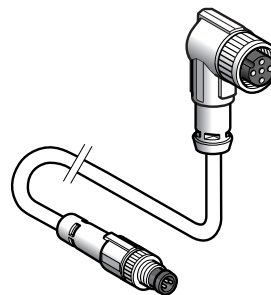
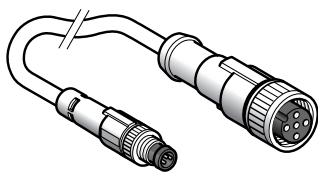
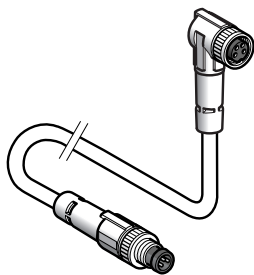
Dimensions		
XZ CR2705037R●	XZ CR2706037R●	XZ CR2709037S●



L = 1 or 2 m

Connections





M8, 3-pin, straight

M8, 4-pin, elbowed

M12, 5-pin, straight

M12, 5-pin, elbowed

3

3

3

XZ CR2710037S1

XZ CR2711037T1

XZ CR2712037T1

XZ CR2710037S2

XZ CR2711037T2

XZ CR2712037T2

0.060

0.065

0.065

0.090

0.093

0.093

UL

Male: screw threaded and clip. Female: screw threaded. Metal clamping ring

PUR sheath, PP conductor insulation

IP 65, IP 67, IP 69K

- 40...+ 80°C

- 5...+ 80°C

3 x 0.34 mm²

4.4 mm

~ 60 V, ~ 45 V

4 A

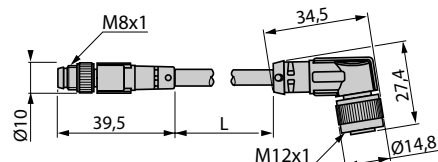
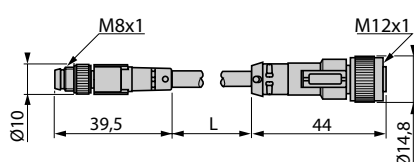
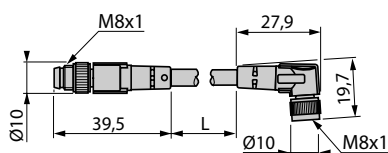
> 10⁹ Ω

≤ 5 m Ω

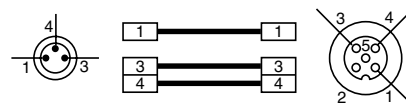
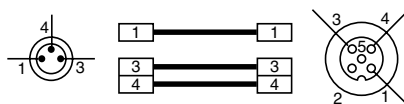
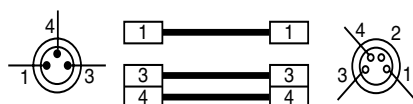
XZ CR2710037S●

XZ CR2711037T●

XZ CR2712037T●



L = 1 or 2 m

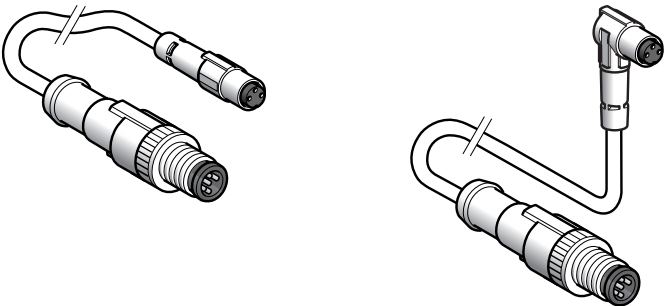


Machine cabling accessories

OsiSense XZ

Jumper cables, Ø 8 mm-M12 and M8-M12

PUR cable



	Clip	
Male connector type	M12, 3-pin, straight	
Female connector type	Ø 8 mm, 3-pin, straight	Ø 8 mm, 3-pin, elbowed
Number of conductors	3	

References

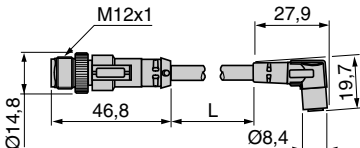
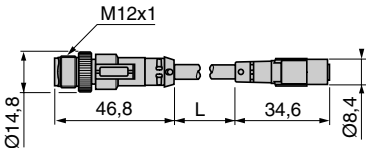
PUR cable (see page 10)	L = 1 m	XZ CR1501040G1	XZ CR1502040G1
	L = 2 m	XZ CR1501040G2	XZ CR1502040G2
Weight (kg)	0.050 (L = 1 m), 0.080 (L = 2 m)		

Characteristics

Certifications		UL
Connection type		Male: screw threaded. Female: clip (1)
Cable material		PUR sheath, PP conductor insulation
Degree of protection		IP 67 (when correctly clipped together or with clamping ring correctly tightened)
Ambient air temperature	Static cable	- 40...+ 80°C
	Flexing cable	- 5...+ 80°C
Conductor c.s.a.		3 x 0.34 mm²
Cable diameter		4.4 mm
Nominal voltage		~ 60 V, --- 75 V
Nominal current		4 A
Insulation resistance		> 10⁹ Ω
Contact resistance		≤ 5 m Ω

Dimensions

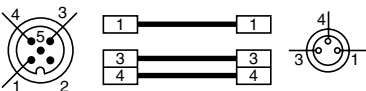
XZ CR1501040G●	XZ CR1502040G●
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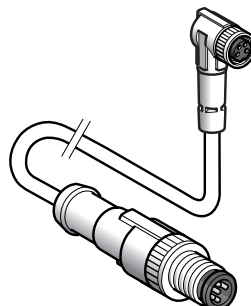
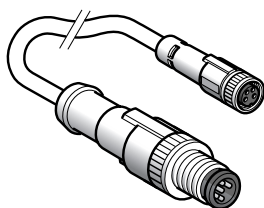
L = 1 or 2 m

Connections

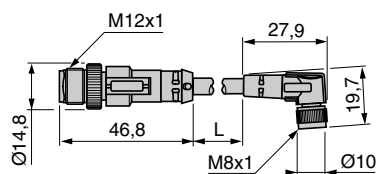
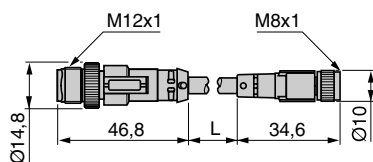
XZ CR1501040G●, XZ CR1502040G●



(1) Clip together connector, without clamping ring.

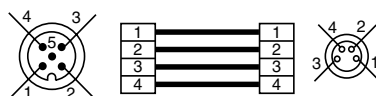
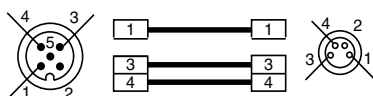


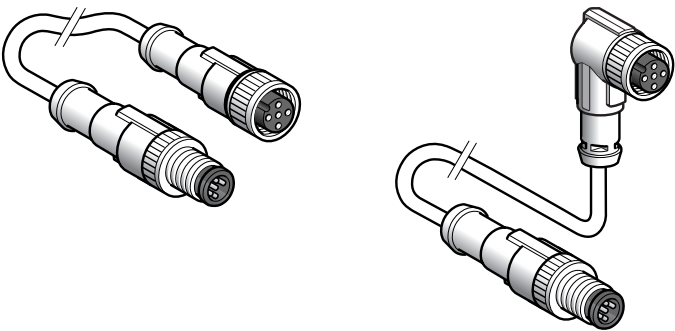
Screw threaded			
M12, 3-pin, straight		M12, 4-pin, straight	
M8, 3-pin, straight	M8, 3-pin, elbowed	M8, 4-pin, straight	M8, 4-pin, elbowed
3		4	
XZ CR1509040H1	XZ CR1510040H1	XZ CR1509041J1	XZ CR1510041J1
XZ CR1509040H2	XZ CR1510040H2	XZ CR1509041J2	XZ CR1510041J2
0.050 (L = 1 m), 0.080 (L = 2 m)		0.055 (L = 1 m), 0.090 (L = 2 m)	
UL			
Male and female: screw threaded			
PUR sheath, PP conductor insulation			
IP 65, IP 67, IP 69K			
- 40...+ 80°C			
- 5...+ 80°C			
3 x 0.34 mm ²		4 x 0.34 mm ²	
4.4 mm			
~ 60 V, --- 75 V			
4 A			
> 10 ⁹ Ω			
≤ 5 m Ω			
XZ CR1509040H●, XZ CR1509041J●		XZ CR1510040H●, XZ CR1510041J●	



L = 1 or 2 m

XZ CR1509040H●, XZ CR1510040H●	XZ CR1509041J●, XZ CR1510041J●
---------------------------------------	---------------------------------------

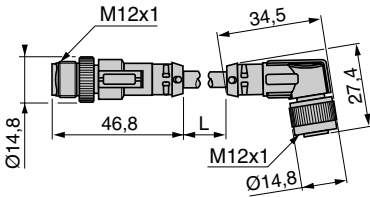
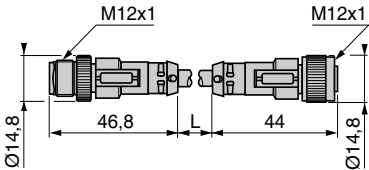




Male connector type	M12, 3-pin, straight			
Female connector type	M12, 3-pin, straight	M12, 3-pin, elbowed	M12, 3-pin, straight	M12, 3-pin, elbowed
Number of conductors	3			
References				
L = 1 m	XZ CR1511040A1	XZ CR1512040A1	XZ CR1511040E1	XZ CR1512040E1
L = 2 m	XZ CR1511040A2	XZ CR1512040A2	XZ CR1511040E2	XZ CR1512040E2
Weight (kg)	0.065 (L = 1 m), 0.095 (L = 2 m)			

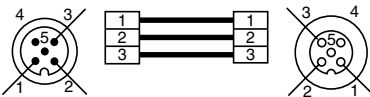
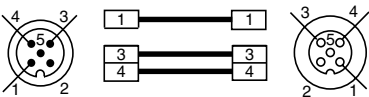
Characteristics		
Certifications	UL	
Connection type	Male and female: screw threaded	
Cable material	PUR sheath, PP conductor insulation	
Degree of protection	IP 65, IP 67, IP 69K	
Ambient air temperature	Static cable	- 40...+ 80°C
	Flexing cable	- 5...+ 80°C
Conductor c.s.a.	3 x 0.34 mm²	
Cable diameter	4.4 mm	
Nominal voltage	~ 250 V, ~ 300 V	
Nominal current	4 A	
Insulation resistance	> 10 ⁹ Ω	
Contact resistance	≤ 5 m Ω	

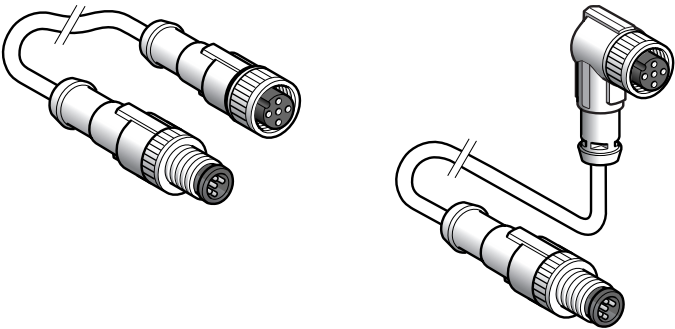
Dimensions	
XZ CR1511040A●, XZ CR1511040E●	XZ CR1512040A●, XZ CR1512040E●



L = 1 or 2 m

Connections	
XZ CR1511040A●, XZ CR1512040A●	XZ CR1511040E●, XZ CR1512040E●



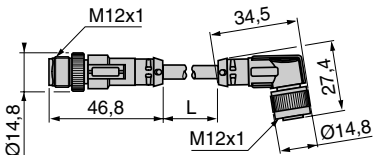
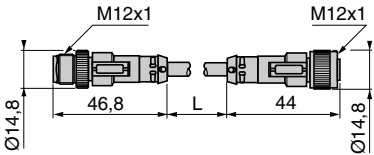


Male connector type	M12, 4-pin, straight	
Female connector type	M12, 4-pin, straight	M12, 4-pin, elbowed
Number of conductors	4	

References			
PUR cable (see page 10)	L = 1 m	XZ CR1511041C1	XZ CR1512041C1
	L = 2 m	XZ CR1511041C2	XZ CR1512041C2
Weight (kg)	0.065 (L = 1 m), 0.095 (L = 2 m)		

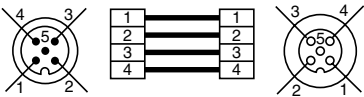
Characteristics	
Certifications	UL
Cable material	PUR sheath, PP conductor insulation
Connection type	Male and female: screw threaded
Degree of protection	IP 65, IP 67, IP 69K
Ambient air temperature	Static cable - 40...+ 80°C
	Flexing cable - 5...+ 80°C
Conductor c.s.a.	4 x 0.34 mm ²
Cable diameter	4.7 mm
Nominal voltage	~ 250 V, ~ 300 V
Nominal current	4 A
Insulation resistance	> 10 ⁹ Ω
Contact resistance	≤ 5 m Ω

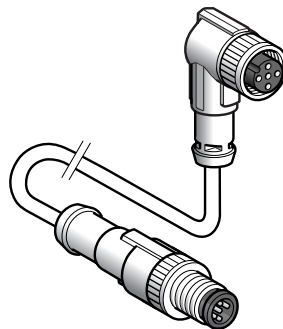
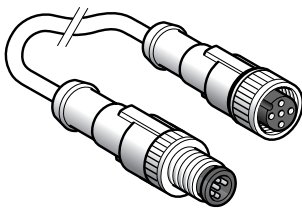
Dimensions	
XZ CR1511041C●	XZ CR1512041C●



L = 1 or 2 m

Connections
XZ CR1511041C●, XZ CR1512041C●





M12, 5-pin, straight

M12, 5-pin, straight

5

M12, 5-pin, elbow

XZ CR1511064D1

XZ CR1511064D2

0.080 (L = 1 m), 0.130 (L = 2 m)

XZ CR1512064D1

XZ CR1512064D2

UL

Male and female: screw threaded

PUR sheath, PP conductor insulation

IP 65, IP 67, IP 69K

- 40...+ 80°C

- 5...+ 80°C

4 x 0,34 mm² + 1 x 0.5 mm²

5.0 mm

~ 30 V, ~ 36 V

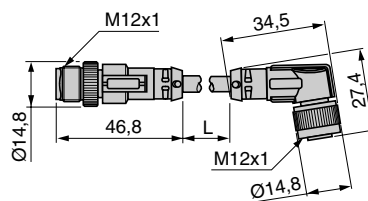
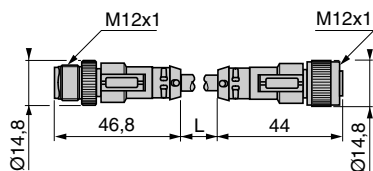
4 A

> 10⁹ Ω

≤ 5 m Ω

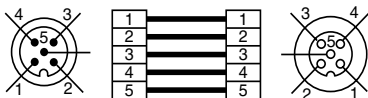
XZ CR1511064D●

XZ CR1512064D●



L = 1 or 2 m

XZ CR1511064D●, XZ CR1512064D●



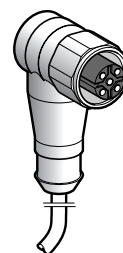
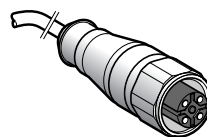
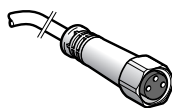
Machine cabling accessories

OsiSense XZ

Pre-wired connectors, Application series

M8, M12 and 1/2"-20UNF

PVC cable



Connector type	Female, M8, straight	Female, M8, straight	Female, M12, straight	Female, M12, elbowed	Female, M12, elbowed
Number of pins	3	4	4	4	5

References

PVC cable (see page 11)	L = 2 m	—	—	XZ CPA1141L2	XZ CPA1241L2	XZ CPA1164L2
	L = 5 m	XZ CPA0566L5	XZ CPA0941L5	XZ CPA1141L5	XZ CPA1241L5	XZ CPA1164L5
	L = 10 m	XZ CPA0566L10	XZ CPA0941L10	XZ CPA1141L10	XZ CPA1241L10	XZ CPA1164L10
Weight (kg)	L = 2 m	—	—	0.090	0.090	0.110
	L = 5 m	0.175	0.200	0.210	0.210	0.250
	L = 10 m	0.340	0.400	0.410	0.410	0.485

Characteristics

Connection type		Screw threaded, smooth, hexagonal, stainless steel 316L clamping ring (1)				
Clamping ring dimension		9 mm		14 mm		
Degree of protection		IP 68		IP 69K		
Ambient air temperature	Static cable usage	- 25...+ 85°C				
Cabling	Cable	Ø 5.0 mm	Ø 5.3 mm	Ø 5.3 mm	Ø 5.3 mm	Ø 5.7 mm
	Conductor c.s.a.	3 x 0.34 mm ²	4 x 0.34 mm ²	4 x 0.34 mm ²		5 x 0.34 mm ²
Nominal voltage		~ 60 V, --- 75 V		~ 250 V, --- 300 V		
Nominal current		4 A		4 A		
Insulation resistance		> 10 ⁹ Ω		> 10 ⁹ Ω		
Contact resistance		≤ 5 m Ω		≤ 5 m Ω		

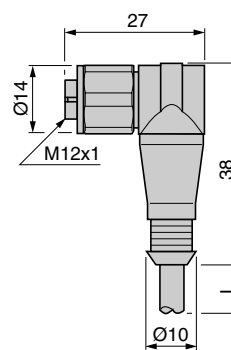
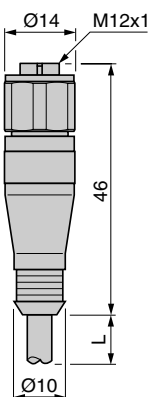
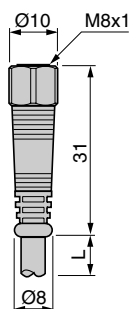
(1) Tightening by hand recommended

Dimensions

XZ CPA0566L●, XZ CPA0941L●

XZ CPA1141L●

XZ CPA1241L●, XZ CPA1164L●



L = 2, 5 or 10 m

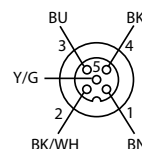
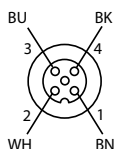
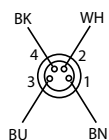
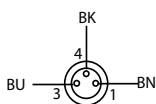
Connections

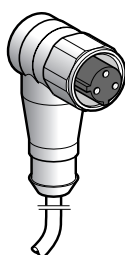
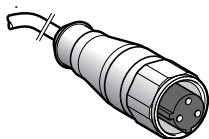
XZ CPA0566L●

XZ CPA0941L●

XZ CPA1141L●, XZ CPA1241L●

XZ CPA1164L●

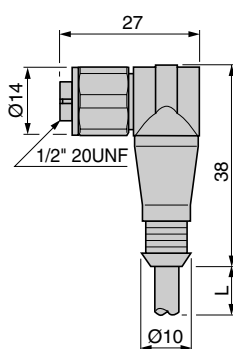
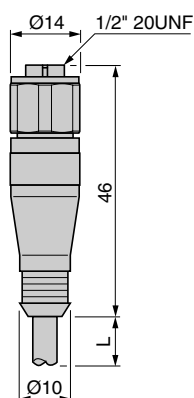




Female, 1/2"-20UNF, straight	Female, 1/2"-20UNF, elbowed
3	3
-	-
XZ CPA1865L5	XZ CPA1965L5
XZ CPA1865L10	XZ CPA1965L10
-	-
0.210	0.250
0.410	0.485
Screw threaded, smooth, hexagonal, stainless steel 316L clamping ring (1)	
14 mm	
IP 69K	
- 25...+ 85°C	
Ø 5.0 mm	
3 x 0.34 mm ²	3 x 0.34 mm ²
~ 250 V, ~ 300 V	~ 250 V, ~ 300 V
4 A	4 A
> 10 ⁹ Ω	> 10 ⁹ Ω
≤ 5 m Ω	≤ 5 m Ω

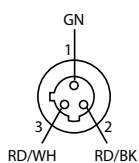
(1) Tightening by hand recommended

XZ CPA1865L●	XZ CPA1965L●
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L = 5 or 10 m

XZ CPA1865L●, XZ CPA1965L●





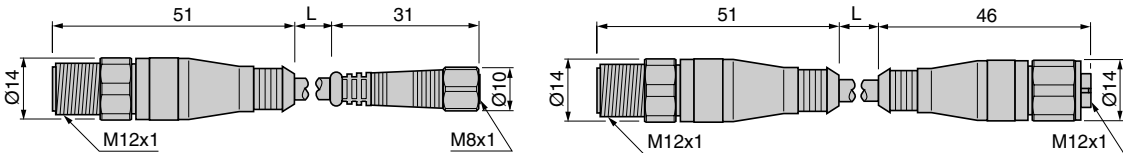
Male connector type	M12, 4-pin, straight	M12, 3-pin, straight
Female connector type	M8, 4-pin, straight	M12, 3-pin, straight
Number of conductors	4	3

References			
PVC cable (see page 11)	L = 2 m	XZ CRA150941J2	XZ CRA151140A2
	L = 5 m	XZ CRA150941J5	XZ CRA151140A5
Weight (kg)	L = 2 m	0.100	0.095
	L = 5 m	0.210	0.200

Characteristics			
Connection type		Screw threaded, smooth, hexagonal, stainless steel 316L clamping ring (1)	
Clamping ring dimension		14/9 mm	14 mm
Degree of protection		IP 68	IP 69K
Ambient air temperature	Static cable usage	- 25...+ 85°C	
Cabling	Cable	Ø 5.3 mm	Ø 5.0 mm
	Conductor c.s.a.	4 x 0.34 mm ²	3 x 0.34 mm ²
Nominal voltage		~ 60 V, --- 75 V	~ 250 V, --- 300 V
Nominal current		4 A	
Insulation resistance		> 10 ⁹ Ω	
Contact resistance		≤ 5 m Ω	

(1) Tightening by hand recommended

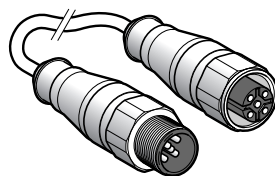
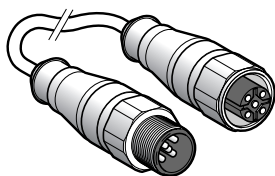
Dimensions	
XZ CRA150941J●	XZ CRA151140A●



L = 2 or 5 m

Connections	
XZ CRA150941J●	XZ CRA151140A●



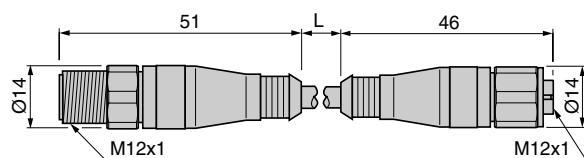
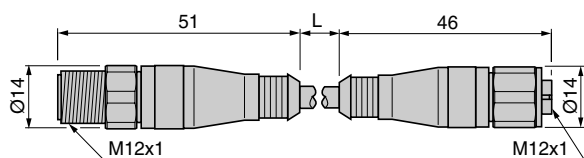


M12, 4-pin, straight	M12, 5-pin, straight
M12, 4-pin, straight	M12, 5-pin, straight
4	5
XZ CRA151141C2	XZ CRA151164D2
XZ CRA151141C5	XZ CRA151164D5
0.105	0.120
0.220	0.260
Screw threaded, smooth, hexagonal, stainless steel 316L clamping ring (1)	
14 mm	
IP 69K	
- 25...+ 85°C	
Ø 5.3 mm	Ø 5.7 mm
4 x 0.34 mm²	5 x 0.34 mm²
~ 250 V, ~ 300 V	
4 A	
> 10 ⁹ Ω	
≤ 5 m Ω	

(1) Tightening by hand recommended

XZ CRA151141C●

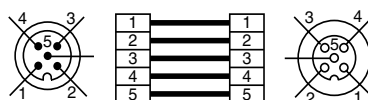
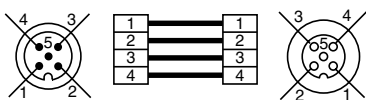
XZ CRA151164D●

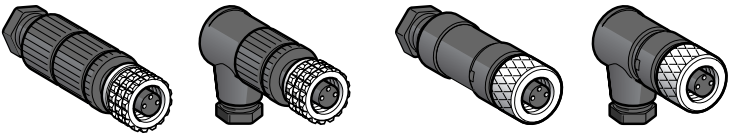


L = 2 or 5 m

XZ CRA151141C●

XZ CRA151164D●





Connector type	Female, M8, straight	Female, M8, elbowed	Female, M8, straight	Female, M8, elbowed
Number of pins	3			
Cable connection	By axial IDC (Insulation Displacement Connector)		To solder terminals	

References

Plastic body	Metal clamping ring	XZ CC8FDM30V	XZ CC8FCM30V	XZ CC8FDM30S	XZ CC8FCM30S
	Plastic clamping ring	—			
Weight (kg)	0.010				

Characteristics

Connection type	Screw threaded (metal clamping ring)	Screw threaded (metal clamping ring)
Degree of protection	IP 67 (with connector correctly tightened)	IP 67 (with connector correctly tightened)
Ambient air temperature	- 25...+ 70°C	- 40...+ 85°C
Cabling	By IDC. Conductor diameter: 1...1.55 mm Cable gland: M9.5 x 1 Maximum clamping capacity: 5 mm	To solder terminals. Maximum conductor c.s.a.: 0.25 mm² Cable gland: M9.5 x 1 Maximum clamping capacity: 5 mm
LED indicators	—	—
Nominal voltage	~ 60 V, — 75 V	~ 60 V, — 75 V
Nominal current	4 A	4 A
Insulation resistance	> 10 ⁹ Ω	> 10 ⁹ Ω
Contact resistance	≤ 10 mΩ	≤ 5 mΩ

Dimensions

XZ CC8FDM30V	XZ CC8FCM30V	XZ CC8FDM30S	XZ CC8FCM30S

(1) Cable gland: M9.5 x 1

Connections

XZ CC8FDM30●, XZ CC8FCM30●



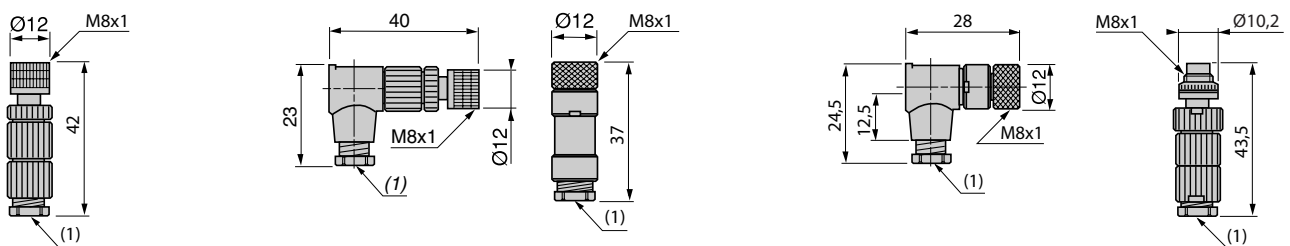


Female, M8, straight	Female, M8, elbowed	Female, M8, straight	Female, M8, elbowed	Male, M8, straight
4				3
By axial IDC (Insulation Displacement Connector)		To solder terminals		

XZ CC8FDM40V	XZ CC8FCM40V	XZ CC8FDM40S	XZ CC8FCM40S	XZ CC8MDM30V
---------------------	---------------------	---------------------	---------------------	---------------------

–				
0.010				
Screw threaded (metal clamping ring)	Screw threaded (metal clamping ring)		Screw threaded (metal clamping ring)	
IP 67 (with connector correctly tightened)	IP 67 (with connector correctly tightened)		IP 67 (with connector correctly tightened)	
- 25...+ 70°C	- 40...+ 85°C		- 40...+ 85°C	
By IDC. Conductor diameter: 1...1.55 mm Cable gland: M9.5 x 1 Maximum clamping capacity: 5 mm	To solder terminals. Maximum conductor c.s.a.: 0.25 mm ² Cable gland: M9.5 x 1 Maximum clamping capacity: 5 mm		By IDC. Maximum conductor c.s.a.: 0.25 mm ² Cable gland: M9.5 x 1 Maximum clamping capacity: 5 mm	
–	–		–	
~ 60 V, ≐ 75 V	~ 60 V, ≐ 75 V		~ 60 V, ≐ 75 V	
4 A	4 A		4 A	
> 10 ⁹ Ω	> 10 ⁹ Ω		> 10 ⁹ Ω	
≤ 10 mΩ	≤ 5 mΩ		≤ 5 mΩ	

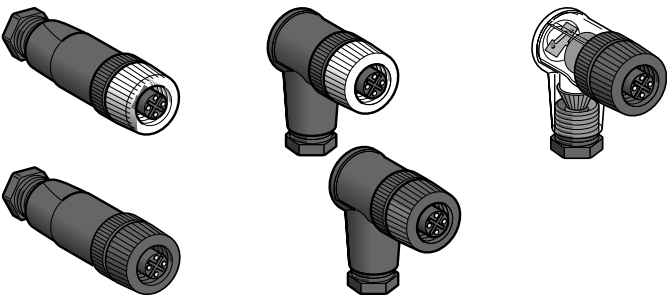
XZ CC8FDM40V	XZ CC8FCM40V	XZ CC8FDM40S	XZ CC8FCM40S	XZ CC8MDM30V
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(1) Cable gland: M9.5 x 1

XZ CC8FDM40●, XZ CC8FCM40●	XZ CC8MDM30V
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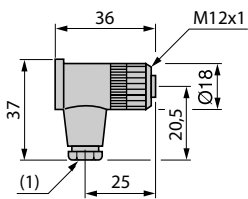
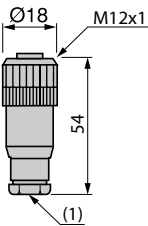


Connector type	Female, M12, straight	Female, M12, elbowed	Female, M12, elbowed
Number of pins	4		
Cable connection	To screw terminals		

References				
Plastic body	Metal clamping ring	XZ CC12FDM40B	XZ CC12FCM40B	–
	Plastic clamping ring	XZ CC12FDP40B	XZ CC12FCP40B	XZ CC12FCP42B
Weight (kg)	0.020			

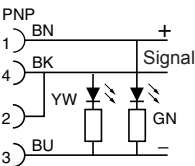
Characteristics		
Connection type	Screw threaded (plastic or metal clamping ring, depending on model)	
Degree of protection	IP 67 (with connector correctly tightened)	
Ambient air temperature	- 40...+ 85°C	
Cabling	To screw terminals. Maximum conductor c.s.a.: 0.75 mm² Cable gland: no. 7 plastic (Pg 7) Clamping capacity: 3 to 6 mm	
LED indicators	–	2 PNP LEDs
Nominal voltage	~ 125 V , --- 150 V	--- 10...30 V
Nominal current	3 A	3 A
Insulation resistance	> 10 ¹² Ω	> 10 ¹² Ω
Contact resistance	≤ 8 m Ω	≤ 8 m Ω

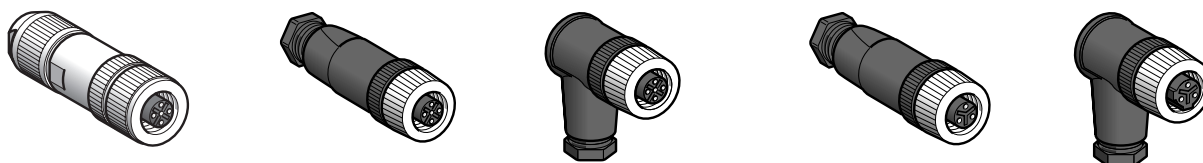
Dimensions	
XZ CC12FD●40B	XZ CC12FC●40B, XZ CC12FCP42B



(1) Cable gland: no. 7 plastic (Pg 7)

Connections	
XZ CC12FD●40B, XZ CC12FC●40B, XZ CC12FCP42B	LED connection for XZ CC12FCP42B





Female, M12, straight, shielded	Female, M12, straight	Female, M12, elbowed	Female, 1/2"-20UNF, straight	Female, 1/2"-20UNF, elbowed
5	5		3	
To spring terminals	To screw terminals			

XZ CC12FDB50R	XZ CC12FDM50B	XZ CC12FCM50B	XZ CC20FDM30B	XZ CC20FCM30B
-	-			
0.050	0.020			

Screw threaded (metal clamping ring)

IP 67 (with connector correctly tightened)

IP 67 (with connector correctly tightened)

- 40...+ 85°C

- 40...+ 85°C

To spring terminals
Maximum conductor c.s.a.:
0.5 mm²
Clamping capacity: 4 to 8 mm

To screw terminals
Maximum conductor c.s.a.: 0.75 mm²
Cable gland: no. 7 plastic (Pg 7)
Clamping capacity: 3 to 6 mm

-

-

-

~ 30 V, ~ 36 V

~ 30 V, ~ 36 V

~ 250 V

4 A

3 A

4 A

> 10¹² Ω

> 10¹² Ω

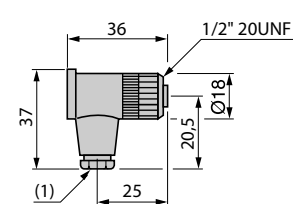
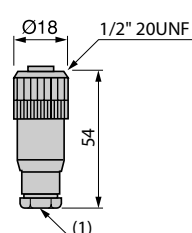
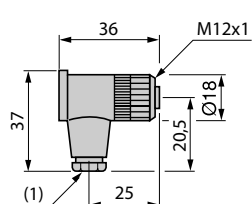
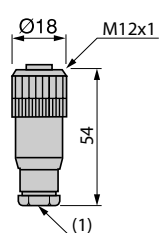
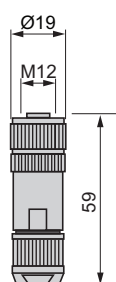
> 10¹² Ω

≤ 8 mΩ

≤ 8 mΩ

≤ 8 mΩ

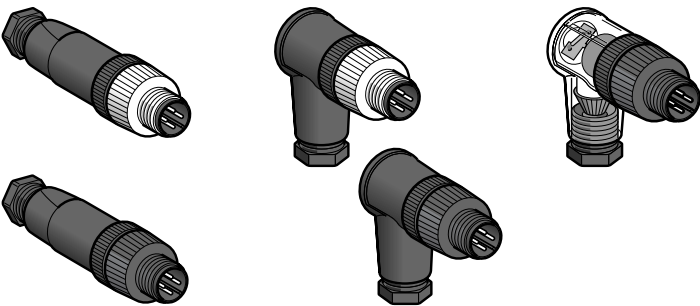
XZ CC12FDB50R	XZ CC12FDM50B	XZ CC12FCM50B	XZ CC20FDM30B	XZ CC20FCM30B
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(1) Cable gland: no. 7 plastic (Pg 7)

XZ CC12FDB50R, XZ CC12F●M50B	XZ CC20F●M30B
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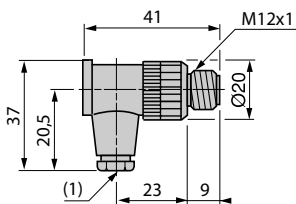
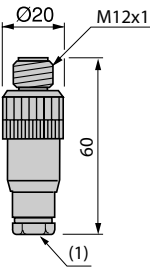


Connector type	Male, M12, straight	Male, M12, elbowed	Male, M12, elbowed
Number of pins	4		
Cable connection	To screw terminals		

References				
Plastic body	Metal clamping ring	XZ CC12MDM40B	XZ CC12MCM40B	–
	Plastic clamping ring	XZ CC12MDP40B	XZ CC12MCP40B	XZ CC12MCP42B
Weight (kg)	0.025			

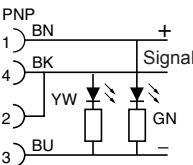
Characteristics		
Connection type	Screw threaded (plastic or metal clamping ring, depending on model)	
Degree of protection	IP 67 (with connector correctly tightened)	
Ambient air temperature	- 40...+ 85°C	
Cabling	To screw terminals Maximum conductor c.s.a.: 0.75 mm² Cable gland: no. 7 plastic (Pg 7) Clamping capacity: 3 to 6 mm	
LED indicators	–	2 PNP LEDs
Nominal voltage	~ 125 V , --- 150 V	--- 10...30 V
Nominal current	3 A	3 A
Insulation resistance	> 10 ¹² Ω	> 10 ¹² Ω
Contact resistance	≤ 8 m Ω	≤ 8 m Ω

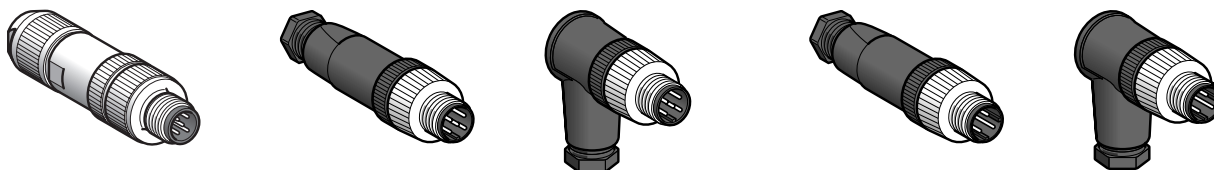
Dimensions	
XZ CC12MD●40B	XZ CC12MC●40B, XZ CC12MCP42B



(1) Cable gland: no. 7 plastic (Pg 7)

Connections	
XZ CC12MD●40B, XZ CC12MC●40B, XZ CC12MCP42B	LED connection for XZ CC12MCP42B





Male, M12, straight, shielded	Male, M12, straight	Male, M12, elbowed	Male, 1/2"-20UNF, straight	Male, 1/2"-20UNF, elbowed
5	5		3	
To spring terminals	To screw terminals			

XZ CC12MDB50R	XZ CC12MDM50B	XZ CC12MCM50B	XZ CC20MDM30B	XZ CC20MCM30B
0.050	0.025			

Screw threaded (metal clamping ring)

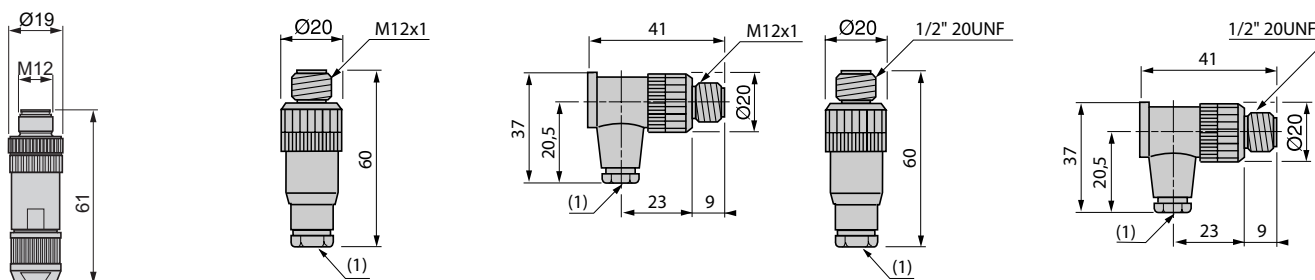
IP 67 (with connector correctly tightened)

- 40...+ 85°C

To spring terminals Maximum conductor c.s.a.: 0.5 mm ² Clamping capacity: 4 to 8 mm	To screw terminals Maximum conductor c.s.a.: 0.75 mm ² Cable gland: no. 7 plastic (Pg 7) Clamping capacity: 3 to 6 mm
------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------

—	—	—
~ 30 V, — 36 V	~ 30 V, — 36 V	~ 250 V
4 A	3 A	4 A
> 10 ¹² Ω	> 10 ¹² Ω	> 10 ¹² Ω
≤ 8 m Ω	≤ 8 m Ω	≤ 8 m Ω

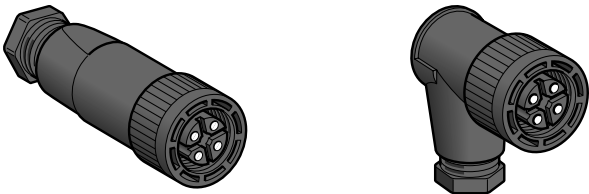
XZ CC12MDB50R	XZ CC12MDM50B	XZ CC12MCM50B	XZ CC20MDM30B	XZ CC20FCM30B
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(1) Cable gland: no. 7 plastic (Pg 7)

XZ CC12MDB50R, XZ CC12M●M50B	XZ CC20M●M30B
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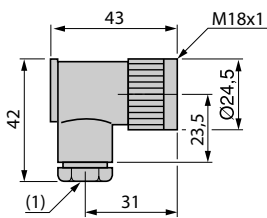
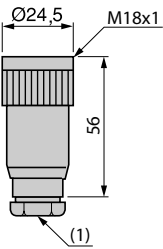


Connector type	Female, M18, straight	Female, M18, elbowed
Number of pins	4	
Cable connection	To screw terminals	

References		
Plastic body	Metal clamping ring	–
	Plastic clamping ring	XZ CC18FDP40B XZ CC18FCP40B
Weight (kg)	0.035	

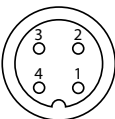
Characteristics	
Connection type	Screw threaded (plastic clamping ring)
Degree of protection	IP 65 (with connector correctly tightened)
Ambient air temperature	- 40...+ 85°C
Cabling	To screw terminals Maximum conductor c.s.a.: 1.5 mm ² Cable gland: no. 9 plastic (Pg 9) Clamping capacity: 5 to 8 mm
LED indicators	–
Nominal voltage	~ 250 V
Nominal current	16 A
Insulation resistance	> 10 ¹² Ω
Contact resistance	≤ 10 m Ω

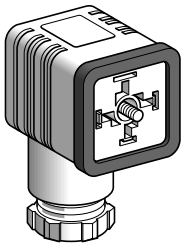
Dimensions	
XZ CC18FDP40B	XZ CC18FCP40B



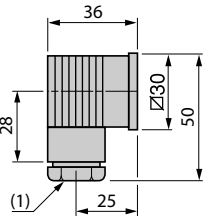
(1) Cable gland: no. 9 plastic (Pg 9)

Connections
XZ CC18F●P40B

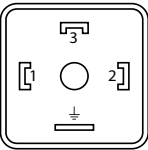


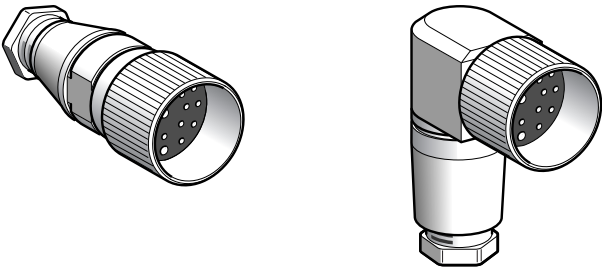


Female, EN 175301-803-A (ex DIN 43650 A), elbowed
4
To screw terminals
XZ CC43FCP40B
-
0.035
With locking screw
IP 65 (with connector correctly locked)
- 40...+ 125°C
To screw terminals Maximum conductor c.s.a.: 1.5 mm ² Cable gland: no. 11 plastic (Pg 11) Clamping capacity: 7 to 10 mm
-
~ 250 V
16 A
> 10 ⁸ Ω
≤ 4 m Ω
XZ CC43FCP40B



(1) Cable gland: no. 11 plastic (Pg 11)
XZ CC43FCP40B



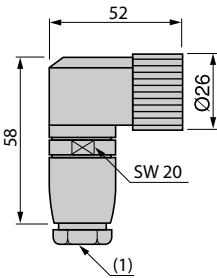
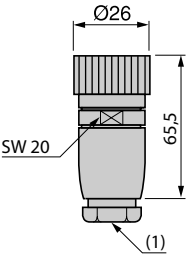


Connector type	Female, M23, straight	Female, M23, elbowed
Number of pins	19	
Cable connection	To solder terminals	

References			
Metal body and metal clamping ring	Contacts numbered anti-clockwise	XZ CC23FDM190S	XZ CC23FCM190S
Weight (kg)		0.080	0.150

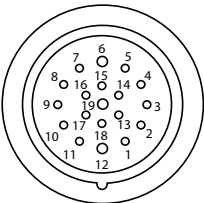
Characteristics	
Connection type	Screw threaded (metal clamping ring)
Degree of protection	IP 65 (with connector correctly tightened)
Ambient air temperature	- 25...+ 110°C
Cabling	To solder terminals Maximum conductor c.s.a.: 1 mm ² Cable gland: no. 13 metal (Pg 13.5) Clamping capacity: 9 to 12 mm
LED indicators	—
Nominal voltage	~ 60 V , --- 75 V
Nominal current	7.5 A
Insulation resistance	> 10 ¹⁶ Ω
Contact resistance	≤ 5 m Ω

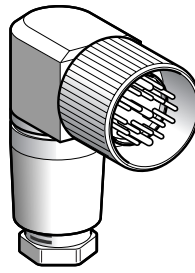
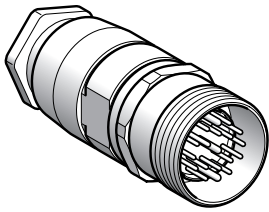
Dimensions	
XZ CC23FDM190S	XZ CC23FCM190S



(1) Cable gland: no. 13 metal (Pg 13.5)

Connections	
XZ CC23F●M190S	





Male, M23, straight

Male, M23, elbowed (compatible with enclosure feed-throughs ABE 7ACC82)

19

To solder terminals

XZ CC23MDM190S

XZ CC23MCM190S

0.080

0.150

Screw threaded (metal clamping ring)

IP 65 (with connector correctly tightened)

- 25...+ 110°C

To solder terminals
Maximum conductor c.s.a.: 1 mm²
Cable gland: no. 13 metal (Pg 13.5)
Clamping capacity: 9 to 12 mm

—

~ 60 V, — 75 V

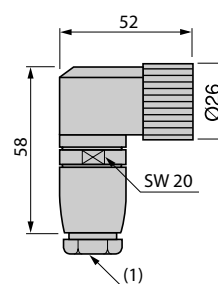
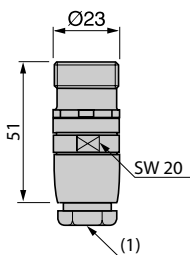
7.5 A

> 10¹⁶ Ω

≤ 5 m Ω

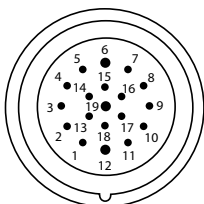
XZ CC23MDM190S

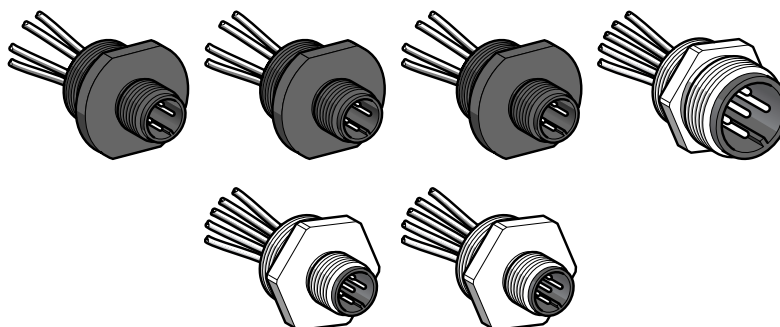
XZ CC23MCM190S



(1) Cable gland: no. 13 metal (Pg 13.5)

XZ CC23M●M190S





Type of 5-pin connector	M12, male			7/8"-16UN, male
Size of tapped hole	11 (Pg 11)	13 (Pg 13.5)	M20 x 1.5	13 (Pg 13.5)

References

4-wire connector adaptors, plastic body	XZ CE11P124M	XZ CE13P124M	XZ CE03P124M	–
5-wire connector adaptors, metal body	–	XZ CE13M125M	XZ CE03M125M	XZ CE13M785M
Weight (kg)	0.020	0.020 (4-wire), 0.025 (5-wire)		0.050

Characteristics

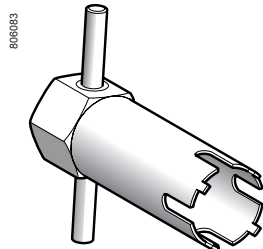
Connection type	Screw threaded		
Degree of protection	IP 67		
Ambient air temperature	- 25...+ 80°C		
Cabling	Via 100 mm long wires.		
Conductor c.s.a.	4 x 0.34 mm ²	XZ CE●3P124M : 4 x 0,34 mm ² XZ CE●3M125M : 4 x 0.34 mm ² + 1 x 0.5 mm ²	5 x 1 mm ²
Nominal voltage	~ 250 V, ~ 300 V	XZ CE●3P124M : ~ 250 V, ~ 300 V XZ CE●3M125M : ~ 30 V, ~ 36 V	~ 250 V, ~ 300 V
Nominal current	4 A		6 A
Insulation resistance	> 10 ⁹ Ω		
Contact resistance	≤ 5 mΩ		

Dimensions

XZ CE11P124M	XZ CE●3P124M	XZ CE●3M125M	XZ CE13M785M
(1) Thread size 11	(1) Thread size 13 or M20 x 1.5	(1) Thread size 13 or M20 x 1.5	(1) Thread size 13

Connections

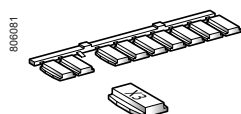
XZ CE●●P124M	XZ CE●●P125M	XZ CE13M785M



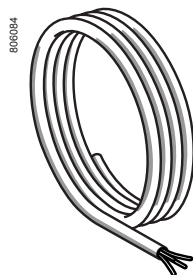
XZ CG0223



XZ LG102



XZ LG101



XZ CB4L●●●●

Accessories

Description	Unit reference	Weight kg
Mounting tool for M23 connector	XZ CG0223	0.120
Blanking plugs for M12 female connectors (Sold in lots of 10)	XZ LG102	0.005
Markers for splitter boxes (Strips of 10 units)	XZ LG101	0.010
PvR cables, 4 x 0.5 mm² (see characteristics, page 11)	L = 25 m	XZ CB4L0025 1.115
	L = 50 m	XZ CB4L0050 2.220
	L = 100 m	XZ CB4L0100 4.490

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