Round Water-resistant Connectors (M12 Threads)

XS2

CSM_XS2_DS_E_11_1

Water- and Environment-resistive FA Connectors Save Wiring and Maintenance Effort

- Compact FA connectors meet IP67 requirements and ensure a 94V-0 fire retardant rating.
- A wide array of connectors makes a wiring system more modular, simplifies maintenance, and reduces downtime.
- Connectors with Cables and Connector Assemblies are available.
- Three types of Connector Assembly: Crimping, soldering, and screw-on.
- Connectors with Cables are UL certified.
- Based on IEC61076-2-101 (IEC60947-5-2) and NECA 4202.

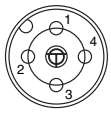
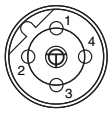
⚠ Refer to *Safety Precautions* on page 21.

Ratings and Specifications

Rated current	4A
Rated voltage	250 VAC/VDC
Contact resistance (Connector)	40 mΩ max. (20 mV max., 100 mA max.)
Insulation resistance	1,000 MΩ min. (at 500 VDC)
Dielectric strength (Connector)	1,500 VAC for 1 min (leakage current: 1 mA max.).
Degree of protection	IP67 (IEC60529)
Insertion tolerance	200 times
Cable holding strength	Cable diameter: 6 mm 98 N/15 s 4 to 5 mm 49 N/15 s 3 mm 29 N/15 s
Ambient operating temperature range	Operating: – 25°C to 70°C *
Ambient humidity range	20% to 85%

*Use the robot cable within a temperature range between 0°C and 70°C to prevent the wires inside the cable from being broken when bending it.

Socket Appearance

DC type		AC type	
Male (plug) contacts	**Female (socket) contacts**	**Male (plug) contacts**	**Female (socket) contacts**
			

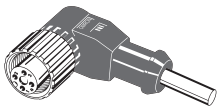
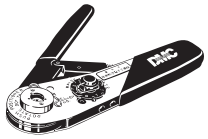
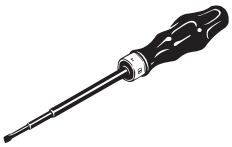
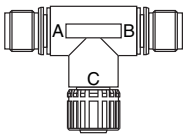
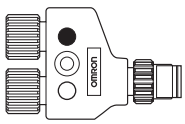
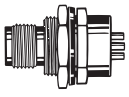
Note: The AC and DC connectors are different as shown here and therefore cannot be connected together.

Materials and Finish

Item		XS2F/H/W	XS2F-LED	XS2M/R/P	XS2C/G
Contacts	**Materials**	Phosphor bronze		Brass	
	Finish	Nickel base, 0.4-µm gold plating			
Thread bracket	**Materials**	Brass *			
	Finish	Nickel plated *			
Pin block	**Materials**	PBT resin (UL94V-0)		PA resin (UL94V-0)	PBT resin (UL94V-0)
	Finish	For DC: light gray; for AC: dark gray			
O-ring/rubber bushing		Rubber			
Cover		Soft PBT resin (UL94V-0)	TPU resin (UL94HB)	---	PBT resin (UL94V-0)
Cable	**Fire-retardant, Robot cable**	UL AWM2464 CL3, 6 mm dia. AWG20 (0.5mm²) Structure: 0.08 mm/110 wires	---	---	---
	Non-polar DC Connectors with Standard Cable	6 mm dia. AWG20 (0.5mm²) Structure: 0.12 mm/45 wires	---	---	---
	E2E models with conventional connector pin with Fire-retardant, Robot cable	UL AWM2464 CL3, 6 mm dia. AWG20 (0.5mm²) Structure: 0.08 mm/110 wires	---	---	---
	Heat-resistant cable up to 105°C	6 mm dia. AWG20 (0.5mm²) Structure: 0.12 mm/45 wires	---	---	---
	Spatter-resistant Cables	6.6 mm dia. AWG20 (0.5mm²) Structure: 0.08 mm/110 wires	---	---	---
	Standard Cable (XS2F-LED)	---	UL AWM2464 5.0 mm dia. (3 conductors) 5.4 mm dia. (4 conductors) 0.34 mm² Structure: 0.1 mm/43 wires	---	---

*The T-joint of the XS2R is aluminum/white.

List of Products

Name	Model		Appearance
1. Connectors attached to Cable	XS2W Sockets and Plugs on Cable Ends		
	XS2F Sockets on One Cable End		
	XS2F Sockets on One Cable End with Indicator		
	XS2H Plugs on One Cable End		
2. Connector Assemblies (Crimping, Soldering, or Screw-on) **Used to enable using connectors for sensor cables and relay cables.**	XS2G Plug Assemblies		
	XS2C Socket Assemblies		
	XY2F Crimp Tool (for Crimping Connectors)		
	XW4Z Screwdriver (for Screw-on Connectors)		
3. Terminal Box Connectors **Used to enable using connectors for terminal boxes.**	XS2P Panel-mounting Sockets		
4. T-Joints and Y-Joints **Used for branching and for daisy-chain connections.**	XS2R T-Joint/Y-Joint Plug/Socket Connectors	T-Joints	
		Y-Joints	
5. Sensor Connector Assemblies **Used to enable using connectors in sensors.**	XS2M Plugs	Embedded Plugs with Screw Threads	
		Embedded Plugs with No Screw Threads	
6. Panel-mounting Connectors **Used to enable using I/O box connectors mounted to panels.**	XS2M Plugs	Flange-mounting Plugs	
		Screw-mounting Plugs	

XS2W Sockets and Plugs on Cable Ends

Model Number Legend

Use this model number legend to identify products from their model number. When ordering, use a model number from the table in *Ordering Information*.

XS2W-D□2□-□□1-□□

1 2 3 4 5 6 7 8 9

1. Type

W: Connectors connected to cable, socket and plug on cable ends

2. AC/DC (Mating Section Form)

D: For DC

3. Connector Poles

4: 4 poles
5: 5 poles

4. Contact Plating

2: 0.4-μm gold plating

5. Cable Connection Direction

1: Straight/straight
2: L-shaped/L-shaped
3: Straight (Socket)/L-shaped (Plug)
4: L-shaped (Socket)/straight (Plug)

6. Cable Length

A: 0.3 m (straight/straight only)
B: 0.5 m (straight/straight only)
C: 1 m (straight/straight only)
D: 2 m
E: 3 m (straight/straight only)
F: 4 m (straight/straight only)
G: 5 m
H: 7 m (straight/straight only)
J: 10 m (straight/straight only)
K: 15 m (straight/straight only)
L: 20 m (straight/straight only)

7. Connections

	Pin No.				Terminal No.				
	①	②	③	④	①	②	③	④	⑤
8:	Brown	White	Blue	Black (for DC)					
G:					Brown	White	Blue	Black	Gray

8. Connectors on One End/Both Ends

1: Both ends

9. Cable Specifications

F: Fire-retardant, Robot cable
SA: Spatter-resistant Cable

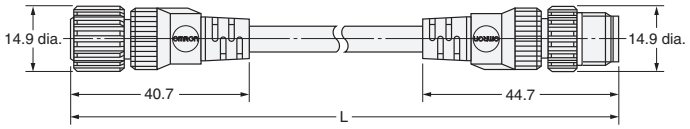
XS2W Sockets and Plugs on Cable Ends

● **Connectors with Fire-retardant, Robot cable** **XS2W-D42□-□81-F**
● **Spatter-resistant Cable** **XS2W-D421-□81-SA**

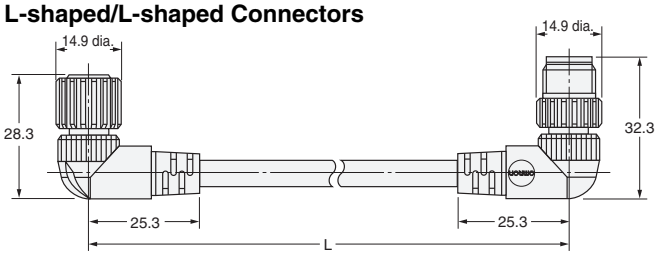
Dimensions

(Unit: mm)

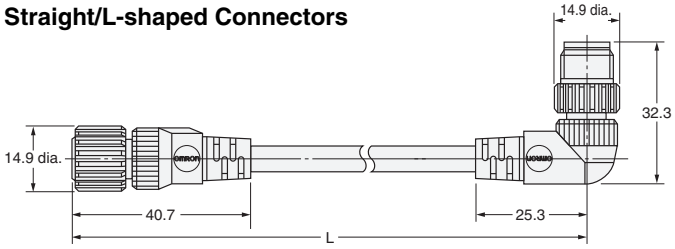
Straight/Straight Connectors



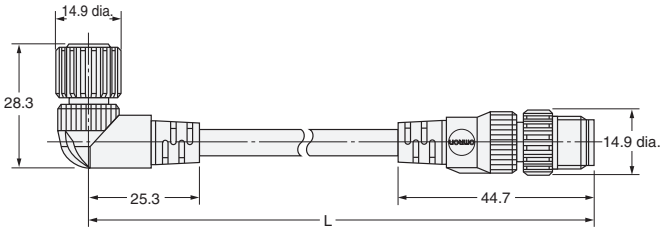
L-shaped/L-shaped Connectors



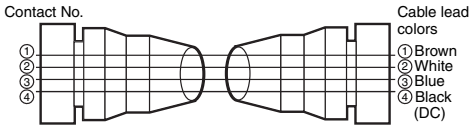
Straight/L-shaped Connectors



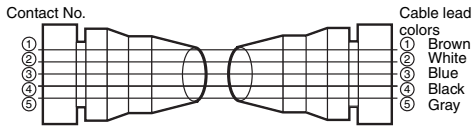
L-shaped/Straight Connectors



Wiring Diagram for 4 Cores



Wiring Diagram for 5 Cores



Ordering Information

Cable Specifications	Cable connection direction	Cable diameter (mm)	No. of cable cores	Cable core cross-sectional area (mm^2)	Cable length (m)	DC		UL -listed
						Model	Minimum order	
Fire-retardant, Robot cable	Straight/Straight	6.0 mm dia.	4	0.5	1	**XS2W-D421-C81-F**	10	Yes
					2	**XS2W-D421-D81-F**	5	
					5	**XS2W-D421-G81-F**		
					10	**XS2W-D421-J81-F**	1	
	L-shaped/ L-shaped				2	**XS2W-D422-D81-F**	5	
					5	**XS2W-D422-G81-F**		
	Straight (Socket)/ L-shaped (Plug)				2	**XS2W-D423-D81-F**		
					5	**XS2W-D423-G81-F**		
	L-shaped (Socket)/ Straight (Plug)				2	**XS2W-D424-D81-F**		
					5	**XS2W-D424-G81-F**		
Spatter-resistant Cables	Straight/Straight	6.6 mm dia.			2	**XS2W-D421-D81-SA**	5	---
					5	**XS2W-D421-G81-SA**		

Note: Ask your OMRON representative about other cable lengths, and about 5-core cables.

XS2F Socket on One Cable End

Model Number Legend

Use this model number legend to identify products from their model number. When ordering, use a model number from the table in *Ordering Information*.

XS2F-□□2□-□□0-□□

1 2 3 4 5 6 7 8 9

1. Type

F: Connector connected to cable, socket on one cable end

2. AC/DC (Mating Section Form)

A: For AC
D: For DC
E: For DC, stainless steel lock

3. Connector Poles

4: 4 poles
5: 5 poles

4. Contact Plating

2: 0.4-μm gold plating

5. Cable Connection Direction

1: Straight
2: L-shaped

6. Cable Length

A: 0.3 m
B: 0.5 m
C: 1 m
D: 2 m
E: 3 m
F: 4 m
G: 5 m
H: 7 m
J: 10 m
K: 15 m
L: 20 m
Only the 2 m (D), 5 m (G) and 10 m (J) cables are available for cables with 5 poles.

7. Connections

	Terminal No. ①	②	③	④	
A:	Brown	---	---	Blue	(for DC)
B:	---	---	Brown	Blue	(for DC)
C:	Brown	---	Blue	Black	
D:	---	---	Blue	Brown	
8:	Brown	White	Blue	Black	(for DC)
9:	Brown	White	Blue	Black	(for AC)

	Terminal No. ①	②	③	④	⑤
G:	Brown	White	Blue	Black	Gray

8. Connectors on One End/Both Ends

0: One end

9. Cable Specifications

F: Standard cable (Fire-retardant, Robot cable)
E: Heat-resistant cable up to 105°C
SA: Spatter-resistant Cable
E type and SA type is a 4-core cable.

Designations for DC Polarity (For Limit Switches and Sensors)

6. Cable Length

3: 2 m
4: 5 m

7. Connections

	Pin No. ①	②	③	④
1:	---	---	Black	White

8. Connectors on One End/Both Ends

0: One end

9. Cable Specifications

Not designated.

Note: Model number standards are different for items 6, 7, and 9 for non-polar connectors.

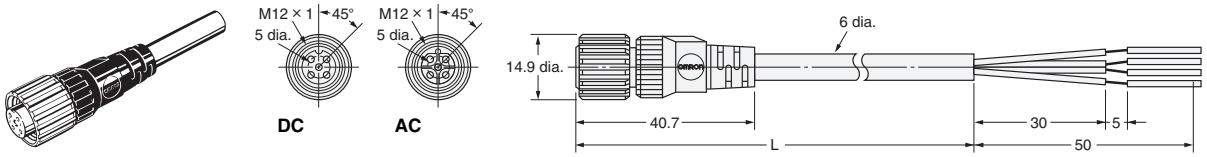
XS2F Sockets on One Cable End

- **Connectors with Fire-retardant, Robot Cable XS2F-□42□-□□0-F**
- **Non-polar DC Connectors with Standard Cable XS2F-□42□-□□0**
- **E2E models with conventional connector pin with Fire-retardant, Robot Cable XS2F-D42□-□D0**
- **Heart-resistant Cable up to 105°C XS2F-E42□-□80-E**
- **Spatter-resistant Cables XS2F-D421-□80-SA**

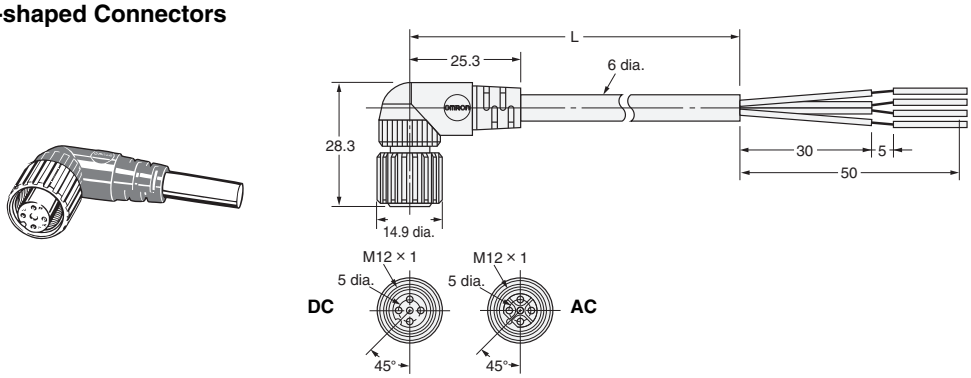
Dimensions

(Unit: mm)

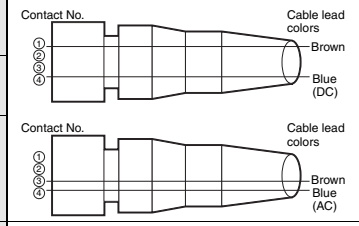
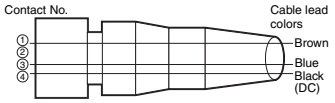
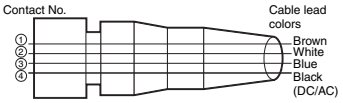
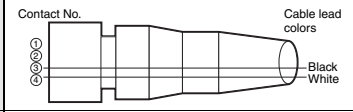
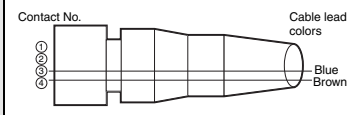
Straight Connectors



L-shaped Connectors



Wiring Diagram

		Two-core model	Three-core model	Four-core model
Fire-retardant, Robot cable	XS2F-□42□-□□0-F			
Spatter-resistant Cables*	XS2F-D421-□80-SA			
Heat-resistant Cables up to 105°C *	XS2F-E42□-□80-E			
Standard cable (non-polar DC)	XS2F-□42□-□□0		---	---
Fire-retardant, Robot cable (E2E models with conventional connector pin)	XS2F-D42□-□D0		---	---

*Spatter-resistant Cables and Heat-resistant Cables (105°C) are available only for four cores and DC.

Ordering Information

Cable Specifications	Cable connection direction	No. of cable cores	Cable outer diameter (mm)	Cable core cross-sectional area (mm^2)	Cable length (m)	DC	AC	Minimum order	UL-listed
						Model	Model		
Fire-retardant, Robot cable	Straight	2	6.0 mm dia.	0.5	1	**XS2F-D421-CA0-F**	**XS2F-A421-CB0-F**	10	Yes
		3				**XS2F-D421-CC0-F**	---		
		4				**XS2F-D421-C80-F**	**XS2F-A421-C90-F**		
		2			2	**XS2F-D421-DA0-F**	**XS2F-A421-DB0-F**	5	
		3				**XS2F-D421-DC0-F**	---		
		4				**XS2F-D421-D80-F**	**XS2F-A421-D90-F**		
		2			5	**XS2F-D421-GA0-F**	**XS2F-A421-GB0-F**		
		3				**XS2F-D421-GC0-F**	---		
		4				**XS2F-D421-G80-F**	**XS2F-A421-G90-F**		
		2			10	**XS2F-D421-JA0-F**	**XS2F-A421-JB0-F**	1	
		3				**XS2F-D421-JC0-F**	---		
		4				**XS2F-D421-J80-F**	**XS2F-A421-J90-F**		
	L-shaped	2			1	**XS2F-D422-CA0-F**	**XS2F-A422-CB0-F**	10	
		3				**XS2F-D422-CC0-F**	---		
		4				**XS2F-D422-C80-F**	---		
		2			2	**XS2F-D422-DA0-F**	**XS2F-A422-DB0-F**	5	
		3				**XS2F-D422-DC0-F**	---		
		4				**XS2F-D422-D80-F**	---		
		2			5	**XS2F-D422-GA0-F**	**XS2F-A422-GB0-F**		
		3				**XS2F-D422-GC0-F**	---		
		4				**XS2F-D422-G80-F**	---		
		2			10	**XS2F-D422-JA0-F**	**XS2F-A422-JB0-F**	1	
		3				**XS2F-D422-JC0-F**	---		
		4				**XS2F-D422-J80-F**	---		
Standard cable (non-polar)	Straight	2			2	**XS2F-D421-310**	**XS2F-A421-310**	5	---
		2			5	**XS2F-D421-410**	**XS2F-A421-410**		
	L-shaped	2			2	**XS2F-D422-310**	**XS2F-A422-310**		
		2			5	**XS2F-D422-410**	**XS2F-A422-410**		
Fire-retardant, Robot cable (E2E models with conventional connector pin)	Straight	2			2	**XS2F-D421-DD0**	---		---
		2			5	**XS2F-D421-GD0**	---		
	L-shaped	2			2	**XS2F-D422-DD0**	---		
		2			5	**XS2F-D422-GD0**	---		
Heat-resistant cable up to 105°C *	Straight	4			2	**XS2F-E421-D80-E**	---		---
					5	**XS2F-E421-G80-E**	---		
	L-shaped				2	**XS2F-E422-D80-E**	---		
					5	**XS2F-E422-G80-E**	---		
Spatter-resistant Cables	Straight/ Straight	4	6.6 mm dia.		2	**XS2F-D421-D80-SA**	---		---
					5	**XS2F-D421-G80-SA**	---		

Note: Ask your OMRON representative about other cable lengths.
*The heat-resistant fixture material is SUS316L stainless steel without surface treatment.

Applicable Proximity Sensors

Refer to page the *E2E Datasheet* for information on connecting to E2E Proximity Sensors

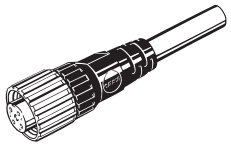
● 5-pole Connectors for DC XS2F-D521-□G0-A

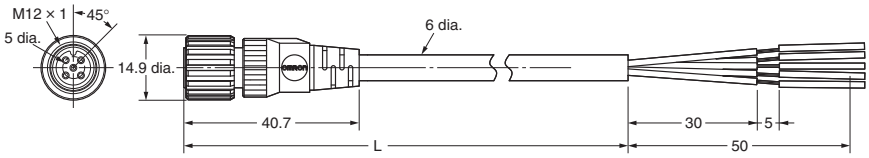
Dimensions

(Unit: mm)

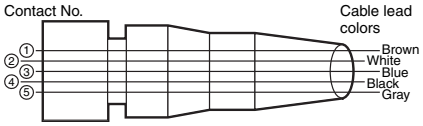
Straight Connectors

Note: Use the XS2H-D521-□G0-A in combination with the XS2F-D521-□G0-A.

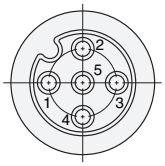




Wiring Diagram



Pin Arrangements (Engagement Side)



Ordering Information

No. of cable cores	Cable core cross-sectional area (mm²)	Cable length (m)	DC	
			Model	Minimum order
5	0.3	2	**XS2F-D521-DG0-A**	5
		5	**XS2F-D521-GG0-A**	5
		10	**XS2F-D521-JG0-A**	5

Note: Ask your OMRON representative about other cable lengths.

XS2F Sockets on One Cable End with Indicator

Model Number Legend

XS2F-M12 PVC □ A □□M□ LED

1 2 3 4 5 6 7 8

1. Type
F: Connector connected to cable, sockets on one cable end

2. Mating Section Form
M12: M12

3. Cable material
PVC: PVC

4. Connector Poles
3: 3 poles
4: 4 poles

5. Cable Connection Direction
A: L-shaped

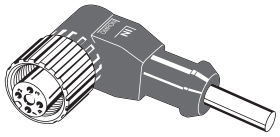
6. Cable Length
2: 2 m
5: 5 m
10: 10 m

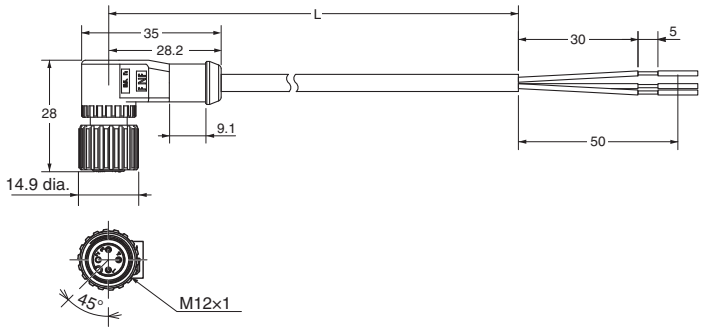
7. Applicable Sensors
P: PNP
N: NPN

8. With indicator
LED: With indicator

Dimensions

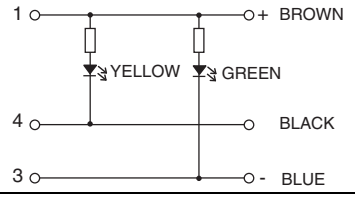
(Unit: mm)

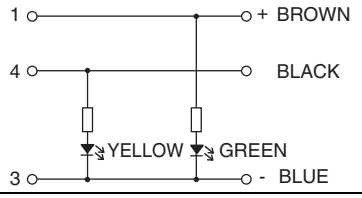


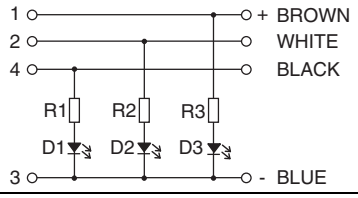


Wiring Diagram

3 poles		4 poles
NPN type	PNP type	PNP type







Ordering Information

Cable Specifications	Cable connection direction	Cable outer diameter (mm)	No. of cable cores	Cable core cross-sectional area (mm^2)	Cable length (m)	LED	Model	Minimum order	UL-listed
PVC	L-shaped	5 mm dia.	3	0.34	2	PNP	**XS2F-M12PVC3A2MPLED**	1	Yes
					5		**XS2F-M12PVC3A5MPLED**		
					10		**XS2F-M12PVC3A10MPLED**		
					2	NPN	**XS2F-M12PVC3A2MNLED**		
					5		**XS2F-M12PVC3A5MNLED**		
					10		**XS2F-M12PVC3A10MNLED**		
		5.4 mm dia.	4		2	PNP	**XS2F-M12PVC4A2MPLED**		
					5		**XS2F-M12PVC4A5MPLED**		
					10		**XS2F-M12PVC4A10MPLED**		

XS2H Plugs on One Cable End

Model Number Legend

XS2H-□□21-□□0-□□

1 2 3 4 5 6 7 8 9

1. Type

H: Connector connected to cable, plug on one cable end

2. AC/DC

A: For AC
D: For DC

3. Connector Poles

4: 4 poles
5: 5 poles

Using this model number legend to identify products from their model number. When ordering, use a model number from the table in *Ordering Information*.

4. Contact Plating

2: 0.4-µm gold plating

5. Cable Connection Direction

1: Straight

6. Cable Length

A: 0.3 m
B: 0.5 m
C: 1 m
D: 2 m
G: 5 m

7. Connections

	Terminal No. ①	②	③	④	
8:	Brown	White	Blue	Black	(for DC)
9:	Brown	White	Blue	Black	(for AC)

	Terminal No. ①	②	③	④	
A:	Brown	---	---	Blue	(for DC)
B:	---	---	Brown	Blue	(for AC)
C:	Brown	---	Blue	Black	(for DC)

	Terminal No. ①	②	③	④	⑤
G:	Brown	White	Blue	Black	Gray

8. Connectors on One End/Both Ends

0: One end

9. Cable Specifications

A: Standard cable
F: Fire-retardant, Robot cable
SA: Spatter-resistant Cable

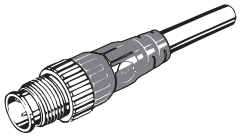
XS2H Plugs on One Cable End

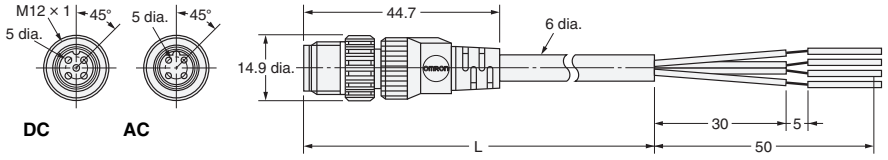
● Connectors with Fire-retardant, Robot Cable XS2H-□421-□□0-F
● Spatter-resistant Cable XS2H-D421-□80-SA

Dimensions

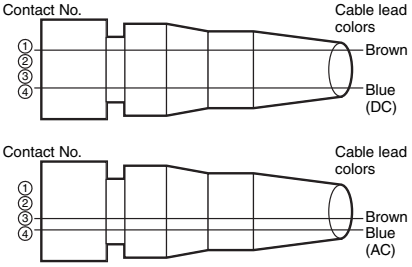
(Unit: mm)

Straight Connectors

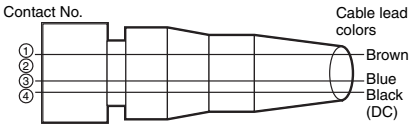




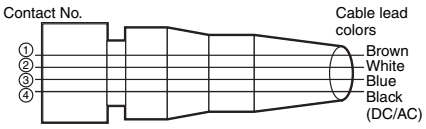
Wiring Diagram



Two-core Model



Three-core Model



Four-core Model

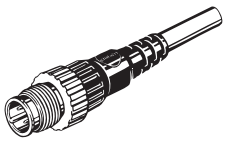
● Connectors on DC Cable (Five Poles) XS2H-D521-□G0-A (for DC)

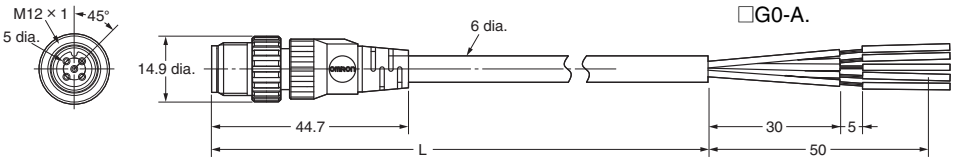
Dimensions

(Unit: mm)

Straight Connectors

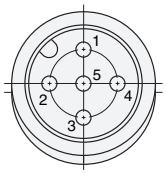
Note: Use the XS2F-D521-□G0-A in combination with the XS2H-D521-□G0-A.

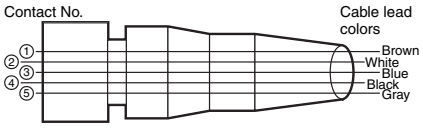




Wiring diagram

Pin Arrangements (Engagement Side)





Five-core Model

Ordering Information

Cable Specifications	No. of connector poles	Cable connection direction	No. of cable cores	Cable outer diameter (mm)	Cable core cross-sectional area (mm²)	Cable length (m)	DC Model	AC Model	Minimum order	UL-listed
Fire-retardant, Robot cable	4	Straight	2	6.0 mm dia.	0.5	0.3	**XS2H-D421-AA0-F**	**XS2H-A421-AB0-F**	10	Yes
			3				**XS2H-D421-AC0-F**	---		
			4				**XS2H-D421-A80-F**	**XS2H-A421-A90-F**		
			2			1	**XS2H-D421-CA0-F**	**XS2H-A421-CB0-F**		
			3				**XS2H-D421-CC0-F**	---		
			4				**XS2H-D421-C80-F**	**XS2H-A421-C90-F**		
Spatter-resistant Cables	4		4	6.6 mm dia.		0.3	**XS2H-D421-A80-SA**	---		---
						1	**XS2H-D421-C80-SA**	---		
Standard cable	5		5	6.0 mm dia.	0.3	0.3	**XS2H-D521-AG0-A**	---		---
						1	**XS2H-D521-CG0-A**	---		

XS2□ Sensor I/O Connectors on Cables (8-pole)

Ordering Information

Connector type	Cable connection direction	Applicable wire diameter	Number of cores	Cable length (m)	Model
Panel-mounting socket	---	AWG22 to 28	---	---	**XS2P-D821-2**
					XS2P-D822-2
Panel-mounting plug					**XS2M-D824-4**
Plug on one cable end	Straight	---	8	0.3	**XS2H-D821-AH0-C**
				1	**XS2H-D821-CH0-C**
Socket on one cable end				2	**XS2F-D821-DH0-C**
				5	**XS2F-D821-GH0-C**
Plug and socket on cable ends				2	**XS2W-D821-DH1-C**
				5	**XS2W-D821-GH1-C**

Pin Numbers and Cable Lead Colors

	Pin number							
XS2F/XS2H/XS2W cable lead colors	1	2	3	4	5	6	7	8
	White	Brown	Green	Yellow	Gray	Pink	Blue	Shield

Ratings and Characteristics

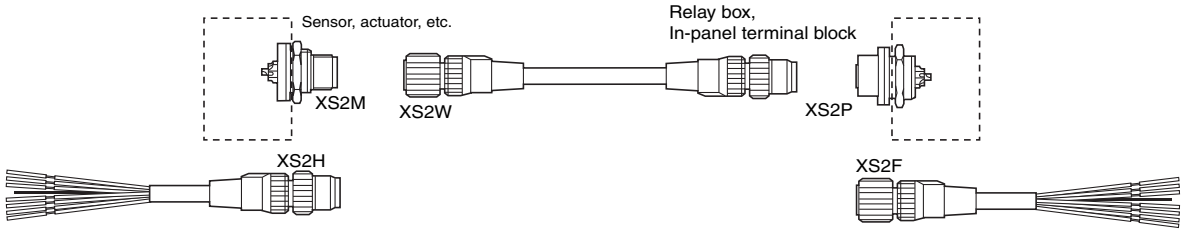
Rated current	1.5 A
Rated voltage	36 VDC
Contact resistance	40 MΩ max. (at 20 mVDC max. and 100 mA max.)
Insulation resistance	1,000 MΩ min. (at 500 VDC)
Dielectric strength	1,000 VAC for 1 min (leakage current: 1 mA max.)
Degree of protection	IP67
Insertion durability	200 times min.
Operating temperature	–25 to 70°C

Materials and Finish

Contacts		Brass/nickel base, 0.4-µm goldplating
Bracket, body, M16 nuts		Brass/nickel plated
Pin block		PBT resin (UL94V-0)/light gray
Cover *1		PBT resin (UL94V-0)
Seal rubber and O-ring *2		Rubber
Cable	**Standard Cable (8 core)**	6 mm dia. AWG24 (0.25 mm^2) Structure: 0.127 mm/20 wires

*1. XS2F/XS2H/XS2W only.
*2. O-rings are on sockets only.

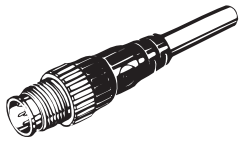
Wiring Example

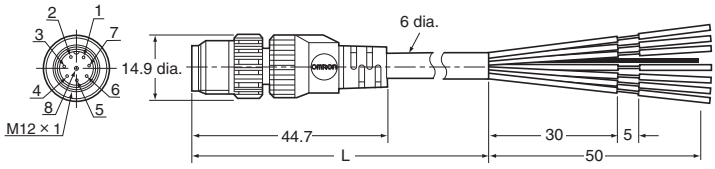


Dimensions

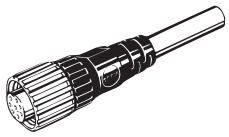
(Unit: mm)

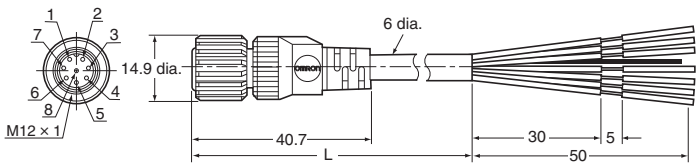
XS2H Plug on One Cable End (M12)



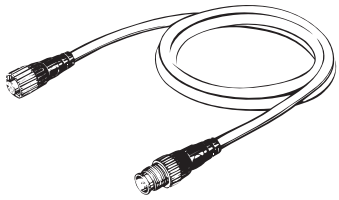


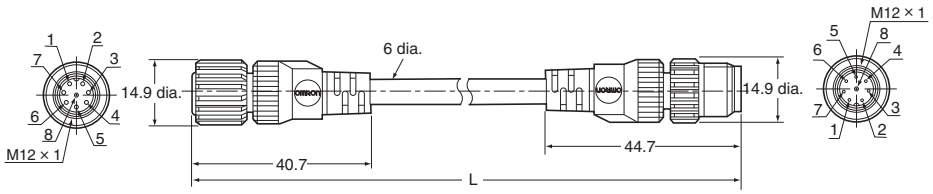
XS2F Socket on One Cable End (M12)



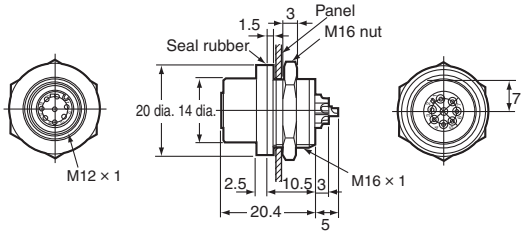


XS2W Plug and Socket on Cable Ends (M12)

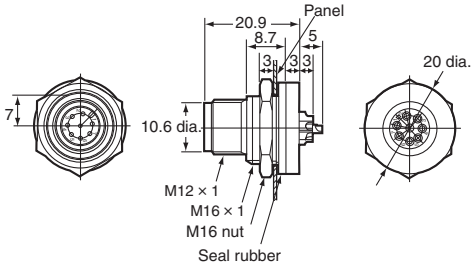




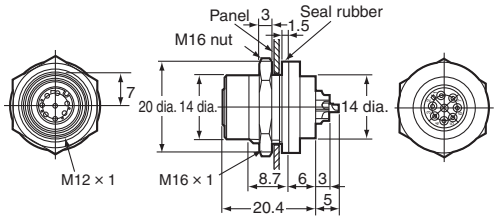
XS2P-D821-2 Panel-mounting Socket (M12) with Solder Cup Pins and Rear Lock



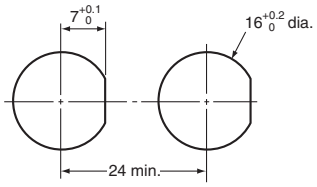
XS2M-D824-4 Panel-mounting Plug (M12) with Solder Cup Pins and Front Lock



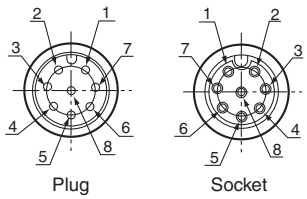
XS2P-D822-2 Panel-mounting Socket (M12) with Solder Cup Pins and Front Lock



Panel Cutouts



Connector Pin Numbers (from Mating Side)



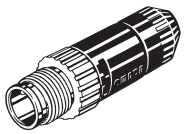
Note 1. Mounting panel thickness: 1 to 4 mm.
2. Applicable core wire size for solder cup pins: 0.5 mm^2 max.
3. The M16 nut and seal rubber are included.

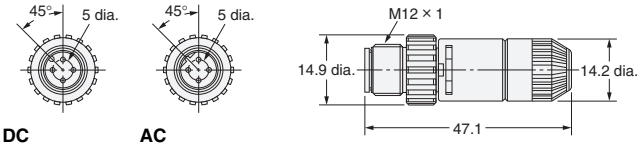
XS2G Crimping/Soldering Plug Assemblies

Dimensions

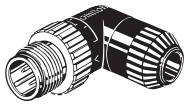
(Unit: mm)

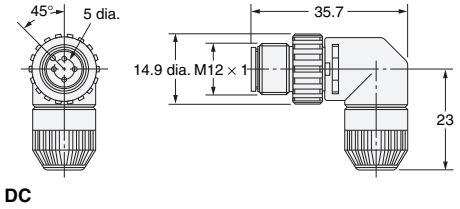
XS2G-□4C□ (Crimping Model)
XS2G-□42□ (Soldering Model)
Straight Connectors





XS2G-D42□ (Soldering Model)
L-shaped Connectors





Ordering Information

Suitable cable dia. (mm)	Suitable core size (mm^2)	Suitable Sheath material	Cable connection direction	Connection method	DC	AC	Minimum order
					Model	Model	
6 mm dia. model (5 to 6 mm dia.)	0.18 to 0.3 0.5 to 0.75 *	PVC, PE, PUR	Straight	Crimping	**XS2G-D4C1**	**XS2G-A4C1**	50
	0.5 max.			Soldering	**XS2G-D421**	**XS2G-A421**	
			L-shaped	Soldering	**XS2G-D422**	---	
4 mm dia. model (4 to 5 mm dia.)	0.18 to 0.3 0.5 to 0.75 *		Straight	Crimping	**XS2G-D4C3**	**XS2G-A4C3**	
	0.5 max.			Soldering	**XS2G-D423**	**XS2G-A423**	
			L-shaped	Soldering	**XS2G-D424**	---	
3 mm dia. model (3 to 4 mm dia.)	0.18 to 0.3 0.5 to 0.75 *		Straight	Crimping	**XS2G-D4C5**	**XS2G-A4C5**	
	0.5 max.			Soldering	**XS2G-D425**	**XS2G-A425**	
			L-shaped	Soldering	**XS2G-D426**	---	

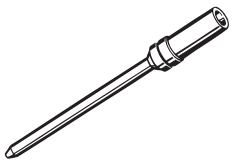
*There are two types of contacts.
Note: Crimping plug contacts are sold separately.
Use a cable of mentioning. When not using a cable of mentioning, there is a possibility that the performance can't be met.
Ask your OMRON representative about selecting a cable of other than above.

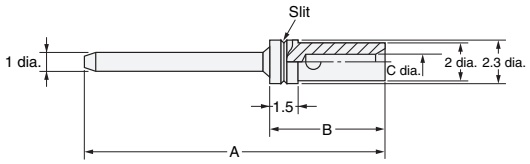
XS2U Crimping Pin for XS2G

Dimensions

(Unit: mm)

XS2U-312□ (Plug Pin)





Note: A special tool must be used for crimping. For details, refer to page 24.

Dimensions

Model	Suitable core size (mm^2)	Dimension (mm)			No. of slits
		A	B	C	
XS2U-3121	0.18 to 0.3	20.0	6.1	0.8	1
XS2U-3122	0.5 to 0.75	20.1	6.2	1.3	0

Ordering Information

Suitable core size (mm^2)	Model	Minimum order
0.18 to 0.3	**XS2U-3121**	100
0.5 to 0.75	**XS2U-3122**	

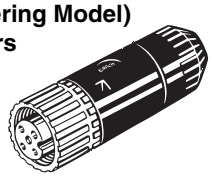
Note: Orders are accepted in multiples of the minimum order.

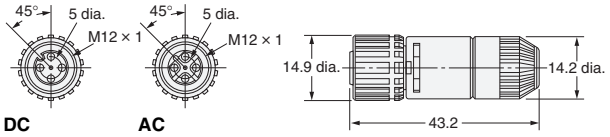
XS2C Crimping/Soldering Socket Assemblies

Dimensions

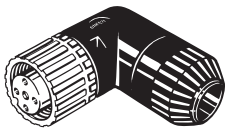
(Unit: mm)

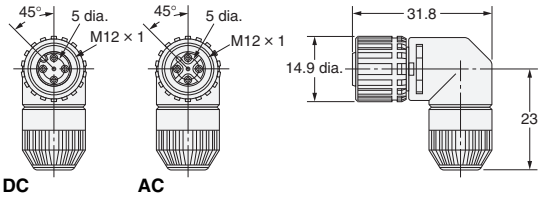
XS2C-□4C□ (Crimping Model)
XS2C-□42□ (Soldering Model)
Straight Connectors





L-shaped Connectors





Ordering Information

Suitable cable dia. (mm)	Suitable core size (mm^2)	Suitable Sheath material	Cable connection direction	Connection method	DC Model	AC Model	Minimum order
6 mm dia. model (5 to 6 mm dia.)	0.18 to 0.3 0.5 to 0.75 *	PVC, PE, PUR	Straight	Crimping	**XS2C-D4C1**	**XS2C-A4C1**	50
	0.5 max.			Soldering	**XS2C-D421**	**XS2C-A421**	
	0.18 to 0.3 0.5 to 0.75 *		L-shaped	Crimping	**XS2C-D4C2**	**XS2C-A4C2**	
	0.5 max.			Soldering	**XS2C-D422**	**XS2C-A422**	
4 mm dia. model (4 to 5 mm dia.)	0.18 to 0.3 0.5 to 0.75 *		Straight	Crimping	**XS2C-D4C3**	**XS2C-A4C3**	
	0.5 max.			Soldering	**XS2C-D423**	**XS2C-A423**	
	0.18 to 0.3 0.5 to 0.75 *		L-shaped	Crimping	**XS2C-D4C4**	**XS2C-A4C4**	
	0.5 max.			Soldering	**XS2C-D424**	**XS2C-A424**	
3 mm dia. model (3 to 4 mm dia.)	0.18 to 0.3 0.5 to 0.75 *		Straight	Crimping	**XS2C-D4C5**	**XS2C-A4C5**	
	0.5 max.			Soldering	**XS2C-D425**	**XS2C-A425**	
	0.18 to 0.3 0.5 to 0.75 *		L-shaped	Crimping	**XS2C-D4C6**	**XS2C-A4C6**	
	0.5 max.			Soldering	**XS2C-D426**	**XS2C-A426**	

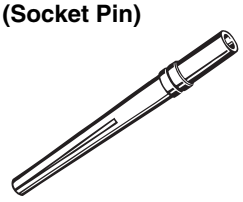
*There are two types of contacts.
Note: Crimping plug contacts are sold separately.
Use a cable of mentioning. When not using a cable of mentioning, there is a possibility that the performance can't be met.
Ask your OMRON representative about selecting a cable of other than above.

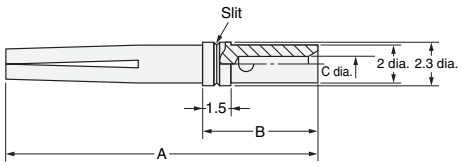
XS2U Crimping Pin for XS2C

Dimensions

(Unit: mm)

XS2U-222□ (Socket Pin)





Note: A special tool must be used for crimping. For details, refer to page 24.

Dimensions

Model	Suitable core size (mm^2)	Dimension (mm)			No. of slits
		A	B	C	
XS2U-2221	0.18 to 0.3	16.7	6.1	0.8	1
XS2U-2222	0.5 to 0.75	16.8	6.2	1.3	0

Ordering Information

Suitable core size (mm^2)	Model	Minimum order
0.18 to 0.3	**XS2U-2221**	100
0.5 to 0.75	**XS2U-2222**	

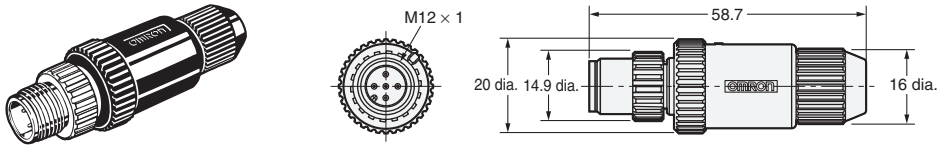
Note: Orders are accepted in multiples of the minimum order.

XS2G Screw-on Plug Assemblies

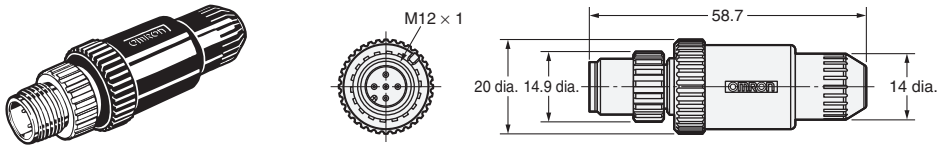
Dimensions

(Unit: mm)

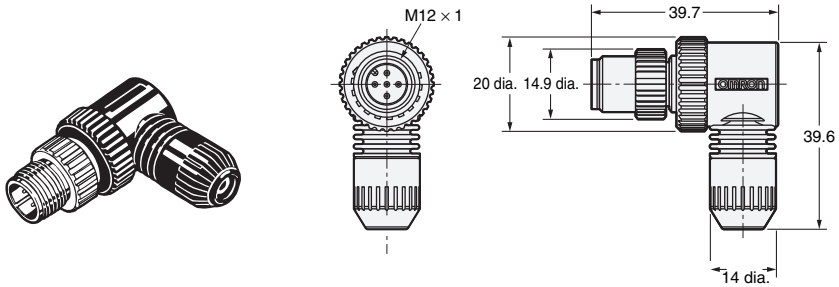
XS2G-D5S7 (5-pole, Straight, Applicable Cable Outer Diameter: 8 mm)
XS2G-D5S9 (5-pole, Straight, Applicable Cable Outer Diameter: 7 mm)
XS2G-D4S7 (4-pole, Straight, Applicable Cable Outer Diameter: 8 mm)
XS2G-D4S9 (4-pole, Straight, Applicable Cable Outer Diameter: 7 mm)



XS2G-D5S1 (5-pole, Straight, Applicable Cable Outer Diameter: 6 mm)
XS2G-D4S□ (4-pole, Straight, Applicable Cable Outer Diameter: 3, 4, or 6 mm)



XS2G-D5S2 (5-pole, L-shaped, Applicable Cable Outer Diameter: 6 mm)
XS2G-D4S□ (4-pole, L-shaped, Applicable Cable Outer Diameter: 3, 4, or 6 mm)



Ordering Information

No. of poles	Suitable cable dia. (mm)	Suitable core size (mm^2)	Suitable Sheath material	Straight connectors (for DC)	L-shaped connectors (for DC)	Minimum order
				Model	Model	
5	8 mm dia. model (7 to 8 mm dia.)	0.18 to 0.75	PVC, PE, PUR	**XS2G-D5S7**	---	50
	7 mm dia. model (6 to 7 mm dia.)			**XS2G-D5S9**	---	
	6 mm dia. model (5 to 6 mm dia.)			**XS2G-D5S1**	**XS2G-D5S2**	
4	8 mm dia. model (7 to 8 mm dia.)			**XS2G-D4S7**	---	
	7 mm dia. model (6 to 7 mm dia.)			**XS2G-D4S9**	---	
	6 mm dia. model (5 to 6 mm dia.)			**XS2G-D4S1**	**XS2G-D4S2**	
	4 mm dia. model (4 to 5 mm dia.)			**XS2G-D4S3**	**XS2G-D4S4**	
	3 mm dia. model (3 to 4 mm dia.)			**XS2G-D4S5**	**XS2G-D4S6**	

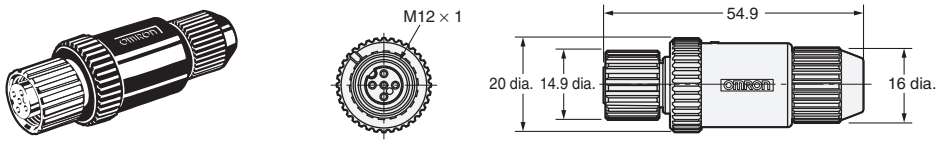
Note: XS2G Screw-on Plugs cannot be connected to side by side to the CN1 and CN2 connectors of XS2R Y-Joint Sockets/Plugs.
Use a cable of mentioning. When not using a cable of mentioning, there is a possibility that the performance can't be met.
Ask your OMRON representative about selecting a cable of other than above.

XS2C Screw-on Socket Assemblies

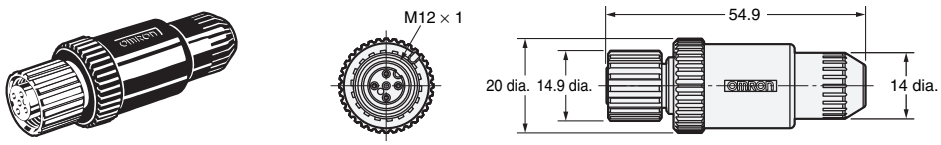
Dimensions

(Unit: mm)

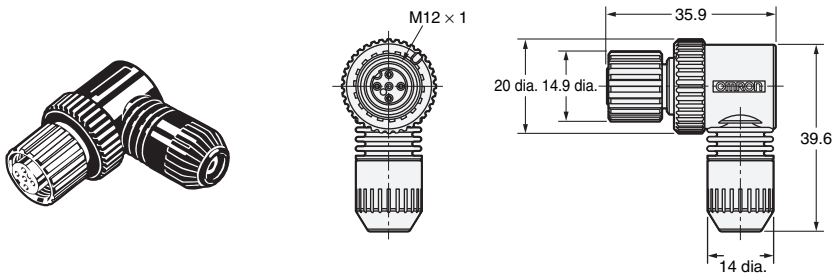
XS2C-D5S7 (5-pole, Straight, Applicable Cable Outer Diameter: 8 mm)
XS2C-D5S9 (5-pole, Straight, Applicable Cable Outer Diameter: 7 mm)
XS2C-D4S7 (4-pole, Straight, Applicable Cable Outer Diameter: 8 mm)
XS2C-D4S9 (4-pole, Straight, Applicable Cable Outer Diameter: 7 mm)



XS2C-D5S1 (5-pole, Straight, Applicable Cable Outer Diameter: 6 mm)
XS2C-D4S□ (4-pole, Straight, Applicable Cable Outer Diameter: 3, 4, or 6 mm)



XS2C-D5S2 (5-pole, L-shaped, Applicable Cable Outer Diameter: 6 mm)
XS2C-D4S□ (4-pole, L-shaped, Applicable Cable Outer Diameter: 3, 4, or 6 mm)



Ordering Information

No. of poles	Suitable cable dia. (mm)	Suitable core size (mm^2)	Suitable Sheath material	Straight connectors (for DC)	L-shaped connectors (for DC)	Minimum order
				Model	Model	
5	8 mm dia. model (7 to 8 mm dia.)	0.18 to 0.75	PVC, PE, PUR	**XS2C-D5S7**	---	50
	7 mm dia. model (6 to 7 mm dia.)			**XS2C-D5S9**	---	
	6 mm dia. model (5 to 6 mm dia.)			**XS2C-D5S1**	**XS2C-D5S2**	
4	8 mm dia. model (7 to 8 mm dia.)			**XS2C-D4S7**	---	
	7 mm dia. model (6 to 7 mm dia.)			**XS2C-D4S9**	---	
	6 mm dia. model (5 to 6 mm dia.)			**XS2C-D4S1**	**XS2C-D4S2**	
	4 mm dia. model (4 to 5 mm dia.)			**XS2C-D4S3**	**XS2C-D4S4**	
	3 mm dia. model (3 to 4 mm dia.)			**XS2C-D4S5**	**XS2C-D4S6**	

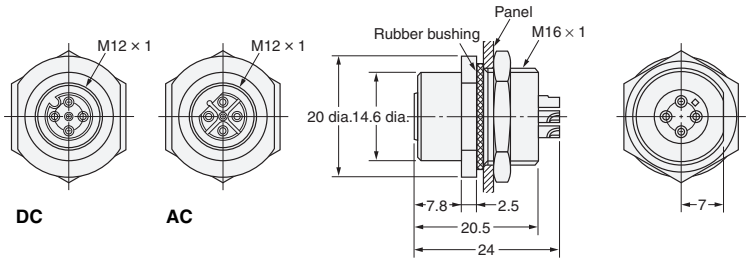
Note: Use a cable of mentioning. When not using a cable of mentioning, there is a possibility that the performance can't be met.
Ask your OMRON representative about selecting a cable of other than above.

XS2P Panel-mounting Sockets for Terminal Boxes

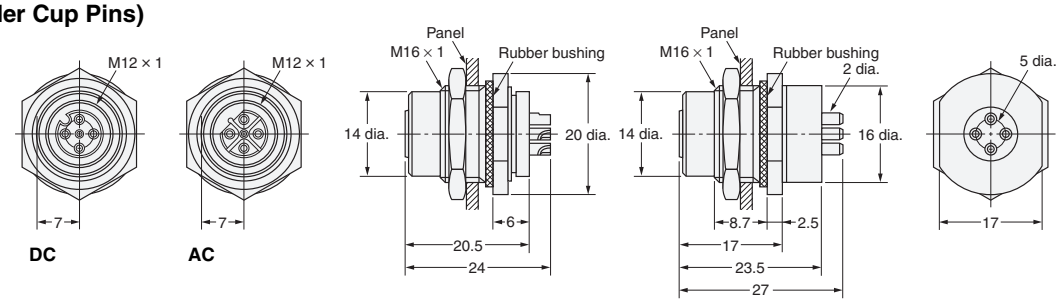
Dimensions

(Unit: mm)

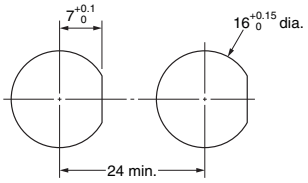
XS2P-□421-2 (with Solder Cup Pins)
Rear Lock Model



XS2P-□422-1 (with DIP Pins)
XS2P-□422-2 (with Solder Cup Pins)
Front Lock Model

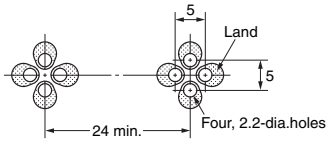


Panel Cutout



Note: The panel thickness is 1 to 4 mm.

PCB-mounting Dimensions



Ordering Information

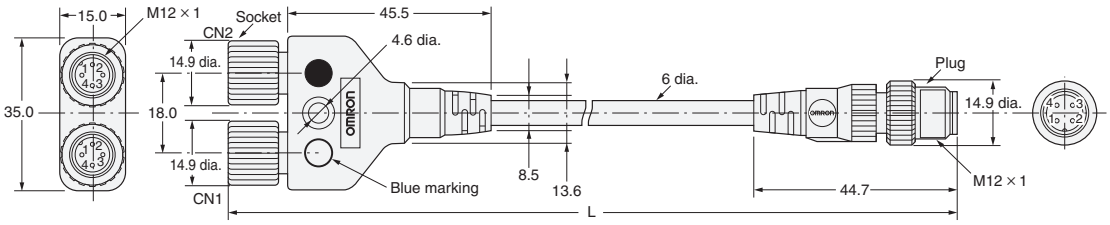
Lock method	Pin shape	Applicable wire diameter	DC	AC	Minimum order
			Model	Model	
Rear lock	Solder cup pin	AWG20 to 28	**XS2P-D421-2**	**XS2P-A421-2**	50
Front lock	Solder cup pin		**XS2P-D422-2**	**XS2P-A422-2**	
	DIP pin		**XS2P-D422-1**	**XS2P-A422-1**	

XS2R Y-Joint Plug/Socket Connectors

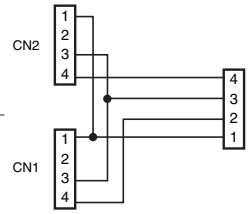
Dimensions

(Unit: mm)

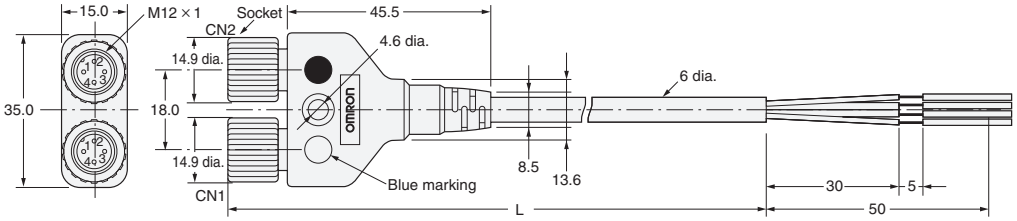
XS2R-D426-□11-F
Connectors on Both Cable Ends (Y-Joint Plug/Socket)



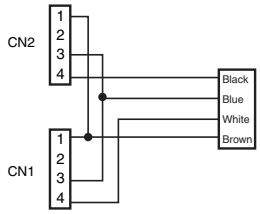
Wiring Diagram



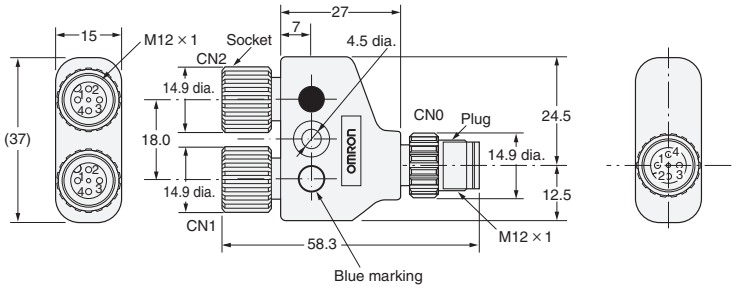
XS2R-D426-□10-F
Connectors on One Cable End (Y-Joint Plug/Socket)



Wiring Diagram

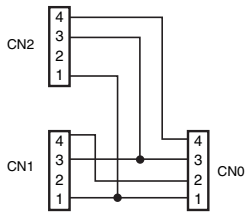


XS2R-D426-1
Y-Joint Plug/Socket without Cable

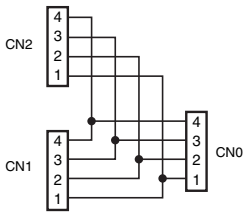


Wiring Diagram

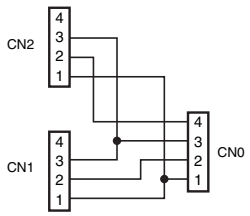
XS2R-D426-1



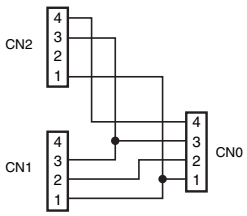
XS2R-D426-5



XS2R-D426-81



XS2R-D426-82



Ordering Information

Type	Connector	DC		
		Cable length L (m)	Model	Minimum order
With cable	Connectors on both cable ends	0.5	**XS2R-D426-B11-F**	5
		1	**XS2R-D426-C11-F**	
		2	**XS2R-D426-D11-F**	
		3	**XS2R-D426-E11-F**	
	Connector on one cable end	2	**XS2R-D426-D10-F**	
		5	**XS2R-D426-G10-F**	
Without cable	Y-Joint plug/socket	---	**XS2R-D426-1**	10
			XS2R-D426-5	
			XS2R-D426-81	
			XS2R-D426-82	

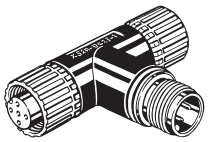
Note: XS2G Screw-on Plugs cannot be connected side-by-side to the CN1 and CN2 connectors.
Consider using a crimping or soldering model instead. Refer to page 14 for details.

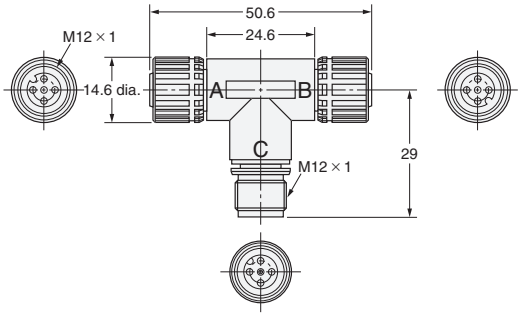
XS2R T-Joint Plug/Socket Connectors

Dimensions

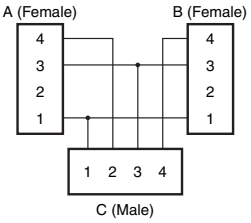
(Unit: mm)

XS2R-D422-1
XS2R-D422-5
Aggregate Models

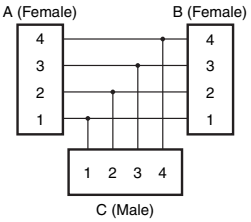




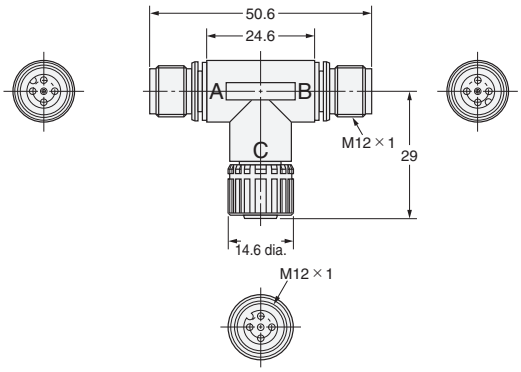
Wiring Diagram
XS2R-D422-1



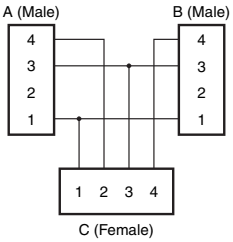
XS2R-D422-5



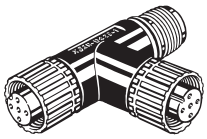
XS2R-D423-1
Bifurcated Model

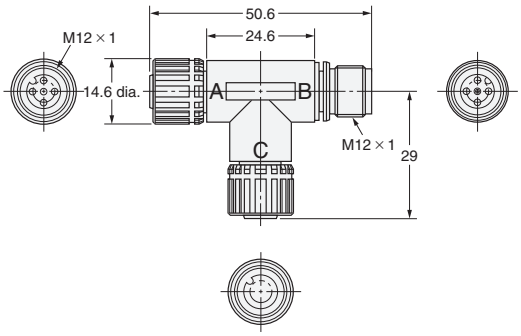


Wiring Diagram

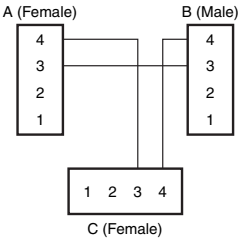


XS2R-D424-1
Daisy-chain Model





Wiring Diagram

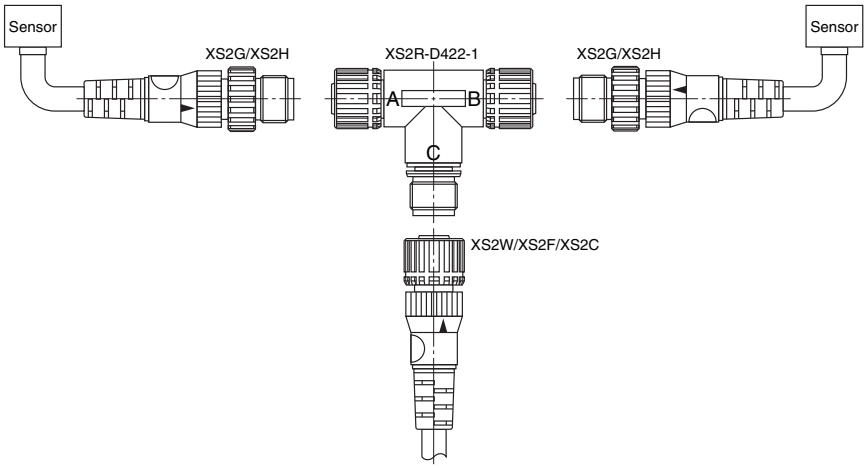


Ordering Information

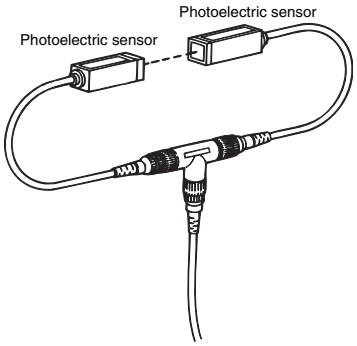
Type	DC	
	Model	**Minimum order**
Aggregate model	**XS2R-D422-1**	20
	XS2R-D422-5	
Bifurcated model	**XS2R-D423-1**	
Daisy-chain model	**XS2R-D424-1**	

XS2R Application Examples

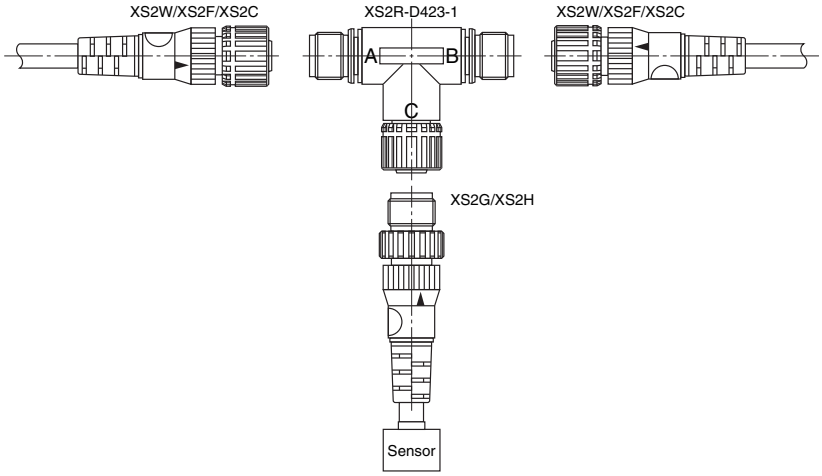
XS2R-D422-1 (Aggregate Model)



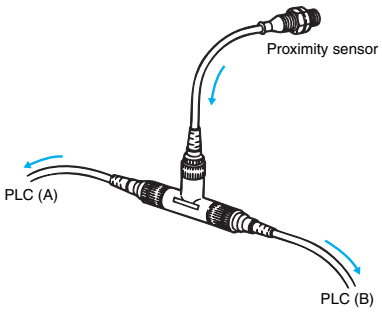
- A pair of Two-wire Sensors or Three-wire Sensors can be connected as shown in the illustration.
- The XS2R-D422-5 has feedthrough connections, thus working as a connector for the extension cable.



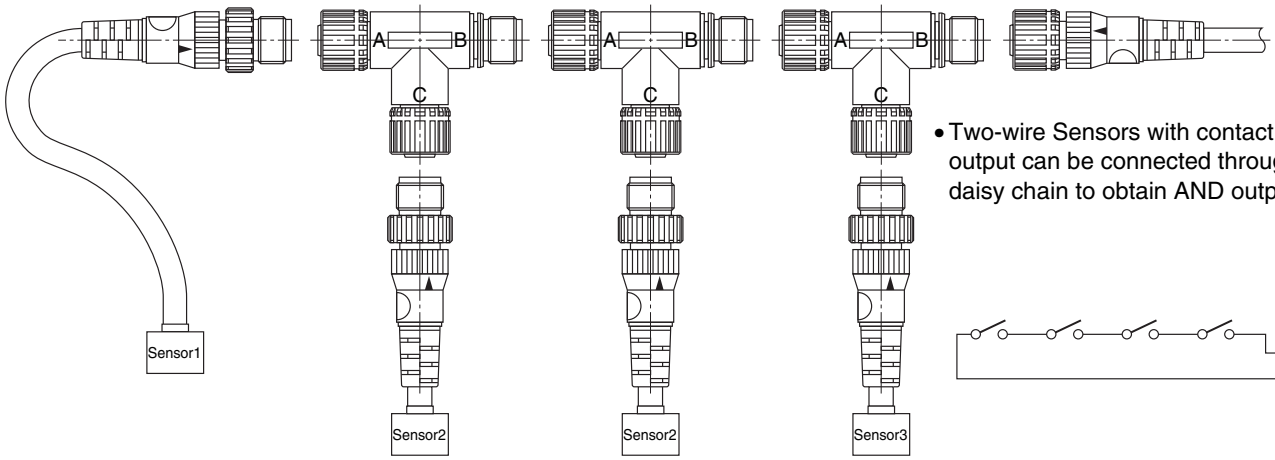
XS2R-D423-1 (Bifurcated Model)



- Two or Three-wire Sensor signals can be bifurcated.



XS2R-D424-1 (Daisy Chain Model)



- Two-wire Sensors with contact output can be connected through a daisy chain to obtain AND output.

Safety Precautions

Precautions for Correct Use

Do not use this product under ambient conditions that exceed the ratings.

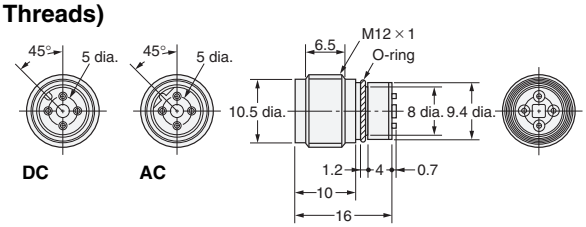
Before using the XS2R for Sensors, make sure that the wiring of the Sensors and the internal connections of the XS2R are correct.

XS2M Sensor-embedded Plugs

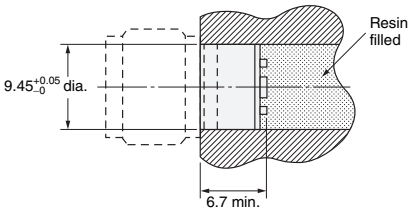
Dimensions

(Unit: mm)

XS2M-D421 (DC)
XS2M-A421 (AC)
(Embedded Plug with Screw Threads)

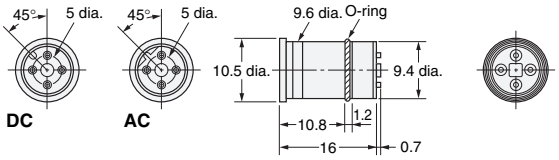


Mounted Dimensions

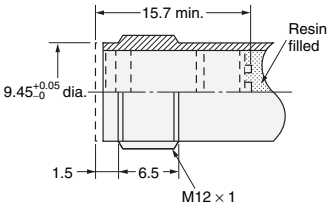


Note: After mounting, anchor the solder cups by injecting resin.

XS2M-D422 (DC)
XS2M-A422 (AC)
(Embedded Plug without Screw Threads)



Mounted Dimensions



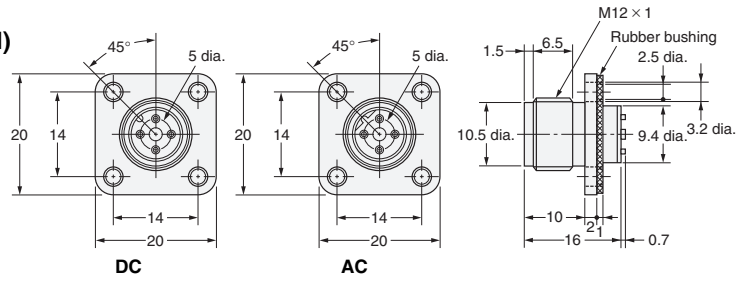
Note: After mounting, anchor the solder cups by injecting resin.

XS2M Panel-mounting Plugs

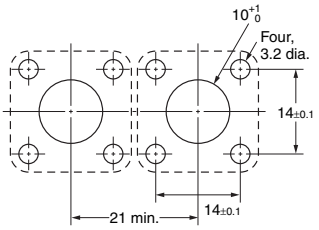
Dimensions

(Unit: mm)

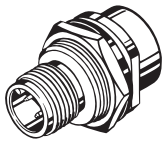
XS2M-D423 (For DC)
XS2M-A423 (For AC)
(Flange-mounting Model)

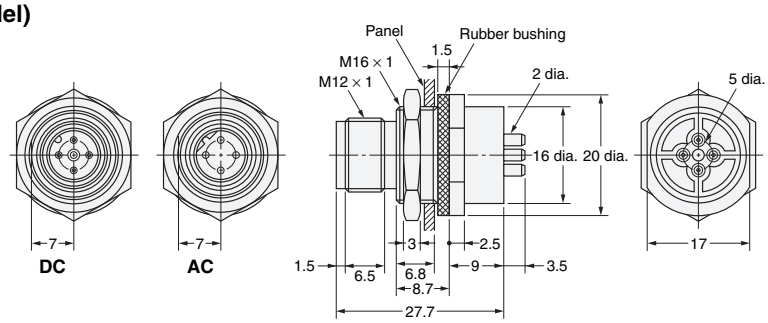


Panel Cutouts

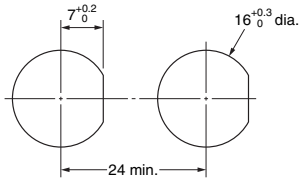


XS2M-□424-1 (With DIP Pins)
XS2M-□424-2 (With Solder Cup Pins)
(Screw-mounting Model)



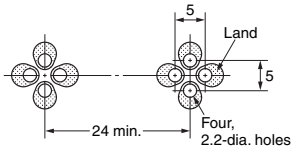


Panel Cutouts



Note: The panel thickness is 1 to 4 mm.

PCB-mounting Dimensions



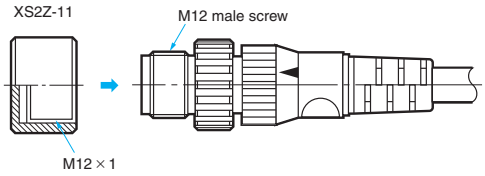
Ordering Information

Mounting method	Pin shape	Applicable wire diameter	DC	AC	Minimum order
			Model	Model	
Embedded with screw threads	Solder cup pin	AWG22 to 28	**XS2M-D421**	**XS2M-A421**	50
Embedded with no screw threads			**XS2M-D422**	**XS2M-A422**	
Flange-mounting			**XS2M-D423**	**XS2M-A423**	
Screw-mounting	DIP pin	---	**XS2M-D424-1**	**XS2M-A424-1**	
	Solder cup pin	AWG20 to 28	**XS2M-D424-2**	**XS2M-A424-2**	

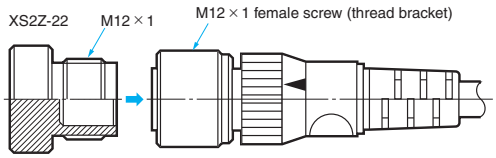
Connector Covers

Water-resistive Covers

XS2Z-11



XS2Z-22

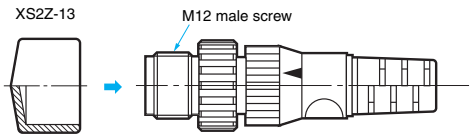


You can use the Water-resistant Cover when the connector is not connected to ensure an IP67 degree of protection. When mounting the Water-resistive Cover to a Connector, be sure to apply a torque range between 0.39 and 0.49 N·m to tighten the Water-resistive Cover.

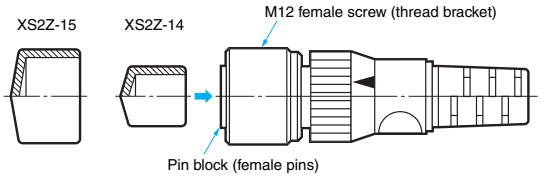
Model	Minimum order	Material	Suitable connector	
			Model	Mounting portion
XS2Z-11	50	Brass/nickel plated	XS2G/XS2H/XS2M/XS2R/XS2W/XS5H/ XS5M/XS5W	M12 male screw
XS2Z-22			XS2C/XS2R/XS2F/XS2P/XS2W/XW3B/ XS5F/XS5W/XS5R/XS5P/XW3D	M12 female screw (thread bracket)

Dust Covers

XS2Z-13



XS2Z-15/XS2Z-14

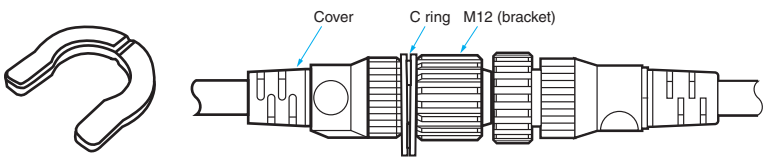


The Dust Cover is for dust prevention and does not ensure IP67 degree of protection. When mounting the Dust Cover to a connector, be sure to press the Dust Cover onto the Connector until the Connector is fully inserted into the Dust Cover.

Model	Minimum order	Material	Suitable connector	
			Model	Mounting portion
XS2Z-13	50	Rubber/black	XS2G/XS2H/XS2M/XS2R	M12 male screw
XS2Z-14			XS2C/XS2R/XS2F/XS2P/ XW3A/XW3B	Pin block (female pins)
XS2Z-15				M12 female screw (thread bracket)

Loosening-preventing C Ring

XS2Z-18

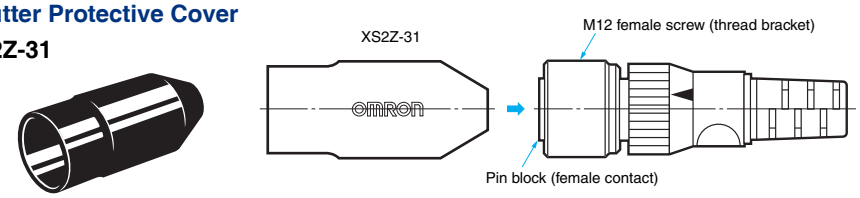


This C ring prevents the M12 connector from becoming loose.
When you attach the C ring, press it securely between the bracket and cover.

Model	Material	Applicable connector
XS2Z-18	POM	XS2F/H/W

Sputter Protective Cover

XS2Z-31



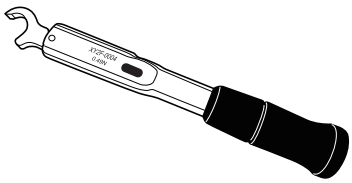
The Sputter Protective Cover protects the connector from weld sputter.
Make sure it covers the entire connector.

Model	Material	Applicable connector
XS2Z-31	Silicone rubber/black	XS2F/XS2H/XS2W

Tools

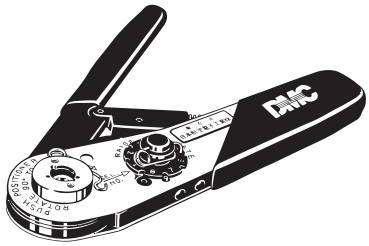
Torque Wrench

XY2F-0004



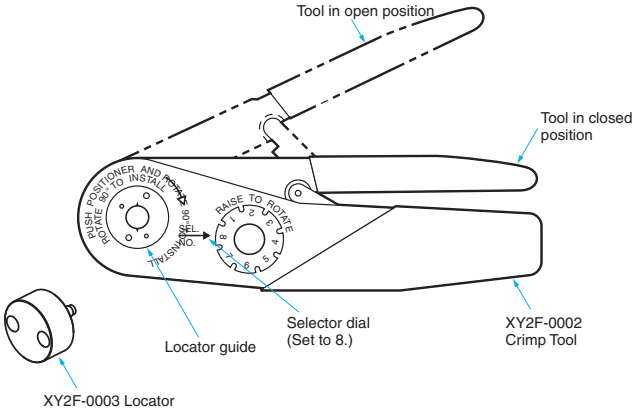
Crimp Tool

XY2F-0002



Locator

XY2F-0003



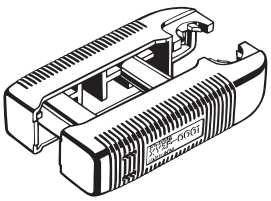
Use the Crimp Tool to crimp a cable core to the XS2U Crimping Pin used with the XS2C or XS2G Crimping Connector.

- The XY2F-0002 Crimp Tool is DMC's AFM8 (M22520/2-01).
- Mount the XY2F-0003 Locator (sold separately) to the locator guide of the Crimp Tool with a screw provided with the XY2F-0003 Locator.

Pin-block Extraction Tool

XY2F-0001

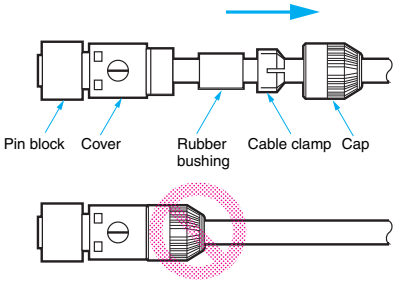
Use this tool to extract a Pin Block from the covers in order to make wiring changes or corrections after the cover has been mounted to the pin block for Connector Assemblies (XS2C/XS2G, soldering/crimping).



Extraction Procedure

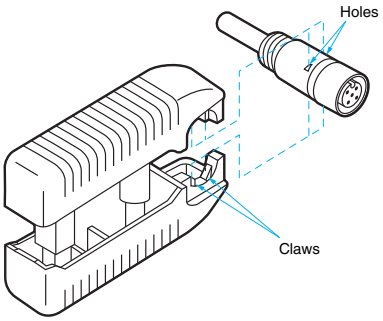
(1) Disconnecting Components

- Disconnect all components on the cap side from the cover.

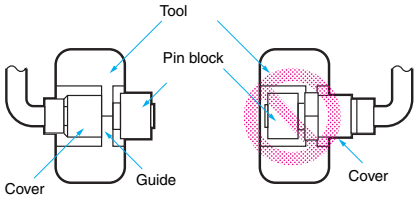


(2) Extracting Pin Block

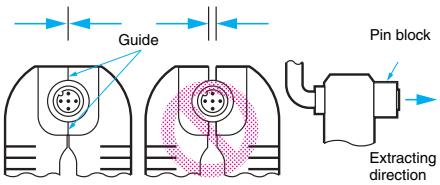
- Insert the claws of the Tool into the four holes of the cover.



- Make sure that the pin block is outside the Tool.



- Press the Tool so that the guides of the Tool are in close contact. Then pull the pin block straight.



Precaution

- The pin block must not be extracted from the same Connector more than 3 times, otherwise the proper degree of protection of the pin block or Connector will not be maintained.

Assembly Procedure for XS2C/XS2G Connector Assemblies

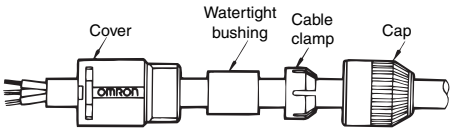
(1) Connector and Cable External Diameters

- Connectors for 8 ,7 ,6 , 4 , and 3 mm diameter Cables (i.e., Cables that are 7 to 8, 6 to 7, 5 to 6, 4 to 5, and 3 to 4 mm in diameter respectively) are available. When assembling a Connector used with a cable, make sure that the external diameter of the Connector is suited to that of the cable.
- A watertight bushing for 6/7 mm diameter Cable has no stripe, that for 8/4 mm-diameter Cable has a single stripe, and that for 3 mm diameter Cable has two stripes.

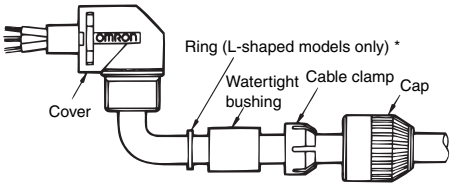
(2) Component Insertion

Crimping/Soldering Connectors

Straight Connectors



L-shaped Connectors

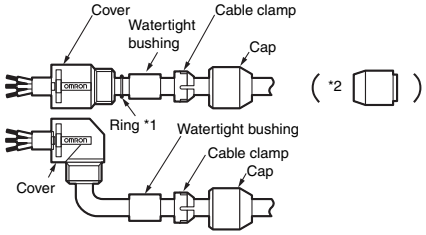


*A ring is not required for Screw-on Connectors.

- As shown in the above illustration, connect the above components to the Cable with its end processed.

Screw-on Connectors

Confirm that you have all of the required parts.

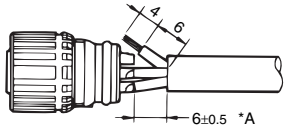


Insulation caps and insulation tubes are included with 5-pole Connectors (XS2C-D5S□ and XS2G-D5S□).

*1. Rings are not required with 7-mm and 8-mm cables.
*2. Insert the waterproof bushing for 7-mm and 8-mm cables in the direction shown in the diagram.

(3) Wiring (Processing Cable Ends)

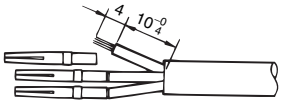
Soldering Connectors



- Strip 10 mm of the Cable sheath and 4 mm of each core.
- Before soldering cores and solder cup pins together, solder-coat each of them.
- The following conditions are recommended for soldering each solder cup pin.
  Soldering temperature: 350±5°C
  Soldering period: 3±1 s
- The length marked *A should be 6.5 mm max., otherwise the proper degree of protection of the connector will not be maintained.

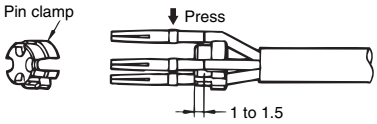
Crimping Connectors

Crimping



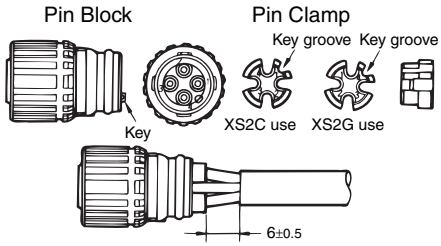
- Strip 14 mm of the Cable sheath and 4 mm of each core.
- Make sure that each core is not damaged and its end strands are not spread out.
- Mount the XY2F-0003 Locator to XY2F-0002 Crimping Tool, both of which are sold separately, and set the selector dial of the Crimping Tool to 8.
- After mounting the crimping pins to the Locator, fully insert the cores to the crimping pins.
- Squeeze the handle of the Crimp Tool to press-fit the cores to the crimping pins.
  (Squeeze the handle firmly until the handle automatically returns to the release position.)

Wiring



- After press-fitting the cores to the pins, insert the pins into the pin clamp as shown in the illustration. Then make sure that the lead colors correspond to the pin clamp numbers that are identical to the connector pin numbers.

Insertion

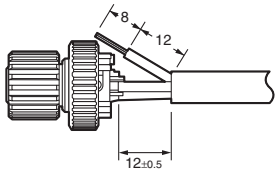


- Tentatively insert the pins to the pin block holes so that the key on the pin block will coincide with the key groove on the pin clamp. Then insert the cable along with the pin clamp.

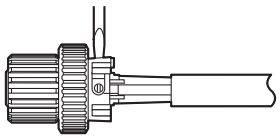
Screw-on Connectors

Cable End Processing

- **Four-pole Connectors**

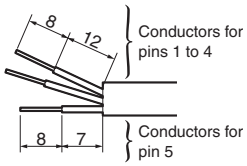


- Loosen the screws on pins 1 to 4 and insert the cores according to the pin numbers.

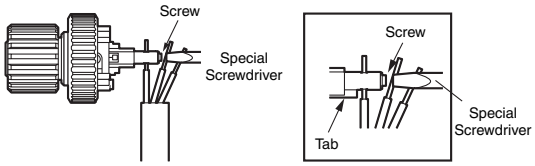


- Use the special Screwdriver (XW4Z-00B) * and tighten the screws securely so that the cores do not pull out (tightening torque: 0.15 to 0.2 N·m).

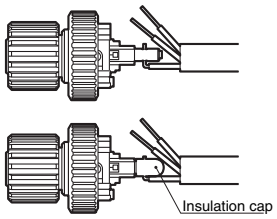
- **Five-pole Connectors**
  - Strip the cable sheath for a total of 15 mm and strip the core covering for 8 mm for the core to connect to pin 5.



  - Connect the core to pin 5 (in the center) first.
  - Insert the core from the side of the hold with the tab and tighten the screw securely (tightening torque: Pins 1 to 4: 0.15 to 0.2 N·m, Pins 5: 0.03 to 0.05 N·m), and then cut off the excess wire with wire cutters.



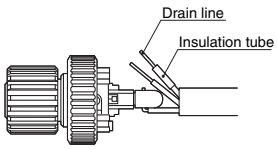
  - Bend the cable as shown below, attached the enclosed insulation cap, and then strip the other cores.



  - Connect the cores to pins 1 to 4.

Connecting Shielded Cables to Five-pole Connectors

- Place the insulation tub on the drain line of the shield and connect ti to the terminal.
- Tighten the screw and then check visually to see if there is insulation between the cores.

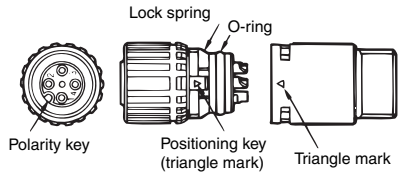


*When tightening the screws, use the dedicated XW4Z-00B Screwdriver that matches with the screw-slot dimensions.

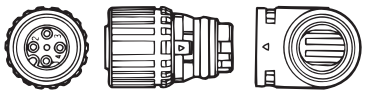
XW4Z-00B Screwdriver

(4) Inserting Pin Block

Pin Block (Soldering Model) **Cover (Straight Model)**

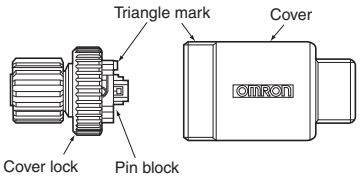


(Crimping Model) **(L-shaped Model)**



- Mount the cover to the pin block so that the triangle mark on the pin block will coincide with the triangle mark on the cover.
- If the cover is used for an L-shaped model, the relationship between the position of the polarity key on the engaged side and cable connection direction will be determined by the direction in which the positioning key is inserted into the cover, which can be rotated by 90°.
- Fully insert the positioning key until the positioning key is hidden by the casing.

Pin Block
(Screw-mounting Connectors)

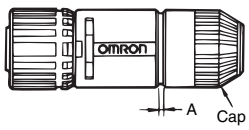


- Align the triangular marks on the pin block and cover and insert the pin block into the cover.
- Press them together firmly (0.39 to 0.49 N·m) until the pin block does not come out of the cover.

(5) Mounting Cap

- After mounting the cover to the pin block and the cover snaps into place, tighten the cap securely by hand within a torque of 0.39 and 0.49 N·m.

Note: If the cap is not tighten securely enough, the degree of protection (IP67) may not be maintained or vibration may cause the cap to become loose. Do not tighten the cap with pliers or similar tools; they may damage the cap.



- After fully tightening the cap, length A should be approximately one of the following according to the cable external diameter and the Connector model.

Connector	Cable external diameter (mm)			
	6 mm	5 mm	4 mm	3 mm
For 6-mm-dia. cable	1	0	---	---
For 4-mm-dia. cable	---	2	1	---
For 3-mm-dia. cable	---	---	2	1

(6) After Assembly

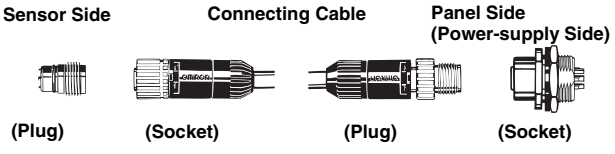
- Confirm the insulation between cores after completing assembly.

Recommended Cables

When connecting a commercially available cable to a connector assembly, use a cable with an outside diameter of 3 to 6 mm and core sizes of 0.18 to 0.75 mm^2 for crimping connectors and 0.5 mm^2 maximum for soldering connectors.

Connector Arrangement

For safety, when constructing a connection system between a Sensor and panel with a connector, make sure that the connector plug is on the Sensor side and the connector socket is on the panel side (i.e., the female pins are located on the power-supply side).



Safety Precautions

Precautions for Correct Use

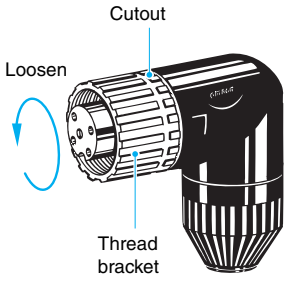
Do not use the product in atmospheres or environments that exceed product ratings.

Tightening Cap (Connector Assemblies)

1. Do not use pliers to tighten caps, otherwise the caps may be damaged. Be sure to tighten each cap by hand within a torque range between 0.39 and 0.49 N·m.
2. If caps are not tightened securely, the Connectors may not maintain their proper degree of protection (i.e., IP67) or the caps may become loose due to vibration.

Connector Connection and Disconnection

- When connecting or disconnecting Connectors, be sure to hold the Connectors by hand.
- Do not hold the cable part when disconnecting Connectors.
- Connectors mating with sockets must be fully inserted into the sockets. Tighten the thread bracket carefully so that the threads will not be damaged.
- Fully tighten thread bracket within a torque range between 0.39 and 0.49 N·m and be sure that the threads of the opposite parts are hidden by the thread bracket.
- When disconnecting Connectors, be sure to loosen the thread brackets first. Do not loosen the caps.
- Thread brackets must be loosened in the cutout direction.



Degree of Protection

- Do not impose external force continuously on the joints of pin blocks and covers, otherwise the Connectors may not keep its proper degree of protection (i.e., IP67).
- The degree of protection of connectors (IP67) is not for a fully watertight structure. Do not use them underwater.
- Connectors are of resin mold construction. Do not impose excessive force on them.

Setup

- Do not make any cable bends near the base of the Unit.
- Any bends made must have a minimum radius of 40 mm.

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