Round Water-resistant Connectors (M12)

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

- Compact FA connectors satisfy 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.



Ratings and Specifications

Item	4,5 Poles	8 Poles	
Rated current	4 A	1.5 A	
Rated voltage	125 VDC, 250 VAC	36 VDC	
Contact resistance	40 m Ω max. (20 mV m	mV max., 100 mA max.)	
Insulation resistance	1,000 MΩ min. (at 500 VDC)		
Dielectric strength (leakage current: 1 mA max.)	1,500 VAC for 1 min 1,000 VAC for 1		
Degree of protection	IP67 (IEC60529)		
Insertion tolerance	200 times min.		

■ PVC Cable

Item	3 cores	4 cores	5 cores	8 cores
Color	Black	Light Grey		
Outer diameter	5 mm dia.	6 mm dia.		
Conductor size	AWG22 0.34	1)	0.25 mm ² (20 × 0.127)	
Approvals	AWM	—		
Features	Flame retarda	—		
Temperature range	Cable fixed: - Cable moved	-25°C to +70°C		

■ PUR Cable

Item	3 cores	4 cores	5 cores		
Color	Black				
Outer diameter	4.3 mm dia.	4.7 mm dia.	5 mm dia.		
Conductor size	AWG22 0.34 mm ² (43 × 0.1)				
Approvals	AWM				
Features	Flame retardant Halogen free Oil resistance				
Temperature range	Cable fixed: -50 to +80°C / Cable moved: -25 to +80°C				

Material

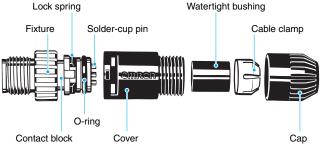
Contact / Surface	Copper Alloy / Nickel base, Au 0.4 μm
Connector housing	PBT resin (UL94V-0)
Nut / Surface	Copper Alloy / Nickel plated
Cover (XS2F/H/W/R)	PBT resin (UL94V-0)
Body (XS2C/G)	PBT resin (UL94V-0)

■ PVC Cable (For IP69K)

Item	Standard	Heat-resistant	
Color	Light Gray	Black	
Outer diameter	6 mm dia.		
Conductor size	AWG20 0.5 mm ² (100 × 0.08)	AWG20 0.5 mm ² (45 × 0.12)	
Approvals	CL3		
Features	Flame retardant	Heat and chemical resistant	
Temperature range	-25 to +70°C	-25 to +105°C	

Construction

(XS2G Soldering Plug Connector Assembly)



Note: 1. See "XS5/XS2 - Assembly Tooling and Accessories" datasheet for information regarding assembly, tooling and accessories that are common to the XS5 and XS2 connectors

2. See "XS5" datasheet for specifics regarding those connectors

4-Pin and 5-Pin Connectors with Cable Attached

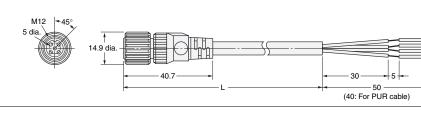
■ XS2F - Socket on One Cable End

XS2F-M12PVC	

Dimensions

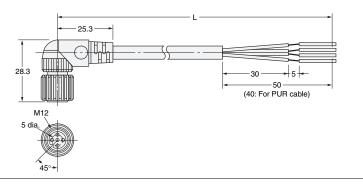
Straight





Angled





Wiring Diagram

3 cores	4 cores	5 cores	
Contact No. Cable lead colors Brown Blue Black	Contact No. Cable lead colors Blue Black	Contact No. Cable lead colors Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Colors Col	

(Unit: mm)

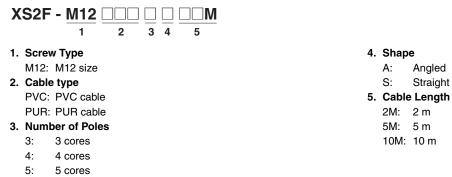
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Ordering Information

onnector	Size	Cable material	Cores	Shape	Length (m)	Product description
			Angled	2	XS2F-M12PVC3A2M	
				5	XS2F-M12PVC3A5M	
			3	-	10	XS2F-M12PVC3A10M
			3		2	XS2F-M12PVC3S2M
				Straight	5	XS2F-M12PVC3S5M
					10	XS2F-M12PVC3S10M
		-			2	XS2F-M12PVC4A2M
		PVC		Angled	5	XS2F-M12PVC4A5M
		FVC	4		10	XS2F-M12PVC4A10M
			4		2	XS2F-M12PVC4S2M
				Straight	5	XS2F-M12PVC4S5M
					10	XS2F-M12PVC4S10M
		-		Angled	2	XS2F-M12PVC5A2M
		-	Angled	5	XS2F-M12PVC5A5M	
			5	Straight	2	XS2F-M12PVC5S2M
ocket	M12				5	XS2F-M12PVC5S5M
JUKEI	1112		3	Angled	2	XS2F-M12PUR3A2M
					5	XS2F-M12PUR3A5M
					10	XS2F-M12PUR3A10M
				Straight	2	XS2F-M12PUR3S2M
					5	XS2F-M12PUR3S5M
					10	XS2F-M12PUR3S10M
				1	2	XS2F-M12PUR4A2M
		PUR		Angled	5	XS2F-M12PUR4A5M
			4		10	XS2F-M12PUR4A10M
			4		2	XS2F-M12PUR4S2M
				Straight	5	XS2F-M12PUR4S5M
					10	XS2F-M12PUR4S10M
				Angled	2	XS2F-M12PUR5A2M
			F	Angled	5	XS2F-M12PUR5A5M
			5	Straight	2	XS2F-M12PUR5S2M
				Straight	5	XS2F-M12PUR5S5M

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.



10M: 10 m

■ XS2F - Socket on One Cable End with LED

XS2F-M12PVC MLED PVC Cable XS2F-M12PUR MLED PUR Cable

Dimensions Angled (Unit: mm)

Wiring Diagram



Ordering Information

Connector Type	Shape	Size	Number of Poles	Cable Material	Cable Length (M)	Model
					2	XS2F-M12PVC3A2MLED
			3		5	XS2F-M12PVC3A5MLED
					10	XS2F-M12PVC3A10MLED
		Angled M12		PVC	2	XS2F-M12PVC4A2MLED
			4		5	XS2F-M12PVC4A5MLED
Cashat	Americal				10	XS2F-M12PVC4A10MLED
Socket	Angled		3		2	XS2F-M12PUR3A2MLED
					5	XS2F-M12PUR3A5MLED
					10	XS2F-M12PUR3A10MLED
					2	XS2F-M12PUR4A2MLED
			4		5	XS2F-M12PUR4A5MLED
					10	XS2F-M12PUR4A10MLED

Model Number Legend

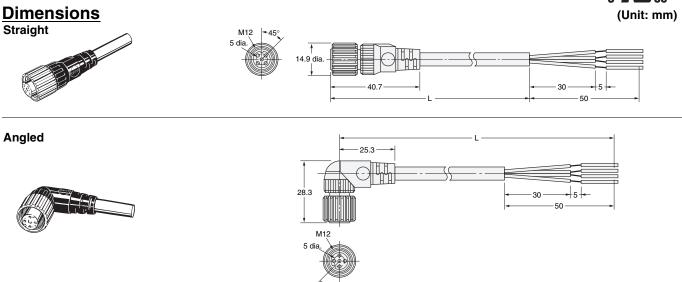
Use this model number legend to identify products from their model number. When ordering, use a model number from the table in *Ordering Information*.



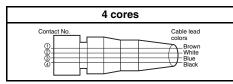
1. Screw Type	4. Shape
M12: M12 size	A: Angled
2. Cable type	5. Cable Length
PVC: PVC cable	2M: 2 m
PUR: PUR cable	5M: 5 m
3. Number of Poles	10M: 10 m
3: 3 cores	6. LED
4: 4 cores	LED: with LED

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■ XS2F - Sockets on One Cable End with IP69K rating



Wiring Diagram



Ordering Information

Connector	Size	Cable material	Cores	Shape	Length (m)	Product description
			- 4 -		2	XS2F-E422-D80-F
				Angled	5	XS2F-E422-G80-F
		Vibration Proof			10	XS2F-E422-J80-F
		Robot Cable			2	XS2F-E421-D80-F
	M12	Heat Resistant		Straight	5	XS2F-E421-G80-F
Socket					10	XS2F-E421-J80-F
SUCKEI				Angled	2	XS2F-E422-D80-E
					5	XS2F-E422-G80-E
					10	XS2F-E422-J80-E
					2	XS2F-E421-D80-E
				Straight	5	XS2F-E421-G80-E
					10	XS2F-E421-J80-E

Note: XS2F-E42□ models with -F are cRUus approved

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 -
$$\underline{E42}_{1234}$$
 - $\underline{B0}_{567}$ - $\underline{B0}_{8}$

- 1. Nut Material E: Stainless
- 2. Number of Poles
 - 4: 4 cores
- 3. Contact Plating 2: 0.4-µm gold plating

4.	Shape			
	1:	Straight		
	2:	Angled		
5.	Ca	ble Length		

D: 2 m

G: 5 m

J: 10 m

- 6. Connections
 - 8: Brown, White, Blue, Black
- 7. Connectors on One End/Both Ends 0: One End
- 8. Cable Specification
 - F: Vibration Proof Robot Cable
 - E: Heat-resistant cable





(Unit: mm)

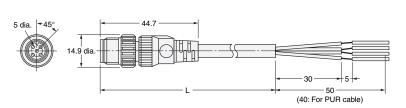
■ XS2H - Plugs on One Cable End

XS2H-M12PVC S M PVC Cable
XS2H-M12PUR S M PUR Cable

Dimensions

Straight





Wiring Diagram

3 cores	4 cores	5 cores	
Contact No. Cable lead oolors Brown Blue Black	Contact No. Colors Colors Colors Frown Blue Blue Black	Contact No. Cable lead colors Brown Cable lead colors Brown Cable lead colors Brown Blick Crean / Yellow	

Ordering Information

Connector	Size	Cable material	Cores	Shape	Length (m)	Product description
					2	XS2H-M12PVC3S2M
			3		5	XS2H-M12PVC3S5M
					10	XS2H-M12PVC3S10M
		PVC			2	XS2H-M12PVC4S2M
		PVC	4		5	XS2H-M12PVC4S5M
					10	XS2H-M12PVC4S10M
			5	Straight	2	XS2H-M12PVC5S2M
Dlug	M12				5	XS2H-M12PVC5S5M
Plug	W12		3		2	XS2H-M12PUR3S2M
					5	XS2H-M12PUR3S5M
					10	XS2H-M12PUR3S10M
		DUD			2	XS2H-M12PUR4S2M
		PUR	4		5	XS2H-M12PUR4S5M
					10	XS2H-M12PUR4S10M
			F	1	2	XS2H-M12PUR5S2M
	5		5	5	XS2H-M12PUR5S5M	

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.

Х	$(S2H - \underline{M12}_{1} \underline{\bigcirc}_{2} \underline{\bigcirc}_{3} \underline{S}_{4} \underline{\bigcirc}_{5} \underline{M})$	
1.	Screw Type	4. Shape
	M12: M12 size	S: Straight
2.	Cable type	5. Cable Length
	PVC: PVC cable	2M: 2 m
	PUR: PUR cable	5M: 5 m
3.	Number of Poles	10M: 10 m
	3: 3 cores	
	4: 4 cores	
	5: 5 cores	

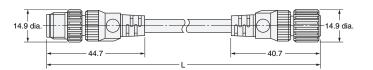
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XS2W - Socket and Plug on Cable Ends

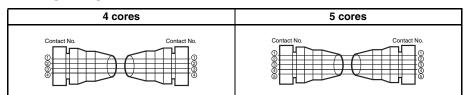
XS2W-M12PVC SS M PVC Cable XS2W-M12PUR SS M PUR Cable



Straight/Straight



Wiring Diagram

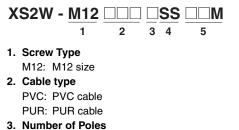


Ordering Information

Connector	Size	Cable material	Cores	Sha	ape	Longth (m)	Product description							
Connector Size	Cable material Cores		Plug	Socket	Length (m)									
						2	XS2W-M12PVC4SS2M							
			4			5	XS2W-M12PVC4SS5M							
		DVC				10	XS2W-M12PVC4SS10M							
			PVC 5	5 Straight Straig		2	XS2W-M12PVC5SS2M							
						5	XS2W-M12PVC5SS5M							
Deth	MIO					10	XS2W-M12PVC5SS10M							
Both	M12				Straight -	2	XS2W-M12PUR4SS2M							
			4			5	XS2W-M12PUR4SS5M							
														10
		PUR					2	XS2W-M12PUR5SS2M						
			5			5	XS2W-M12PUR5SS5M							
			10	XS2W-M12PUR5SS10M										

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.



- 4: 4 cores
- 5:
- 5 cores

- 4. Shape
 - SS: Straight / Straight
- 5. Cable Length
 - 2M: 2 m
 - 5M: 5 m
 - 1M: 10 m

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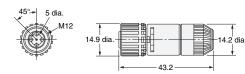
4-Pin and 5-Pin Assembly Connector

■ XS2C - Sockets, Crimping / Soldering Terminals



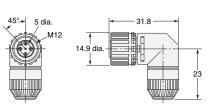
XS2C-Q4CQ (Crimping Model) XS2C-Q42Q (Soldering Model) Straight





Angled





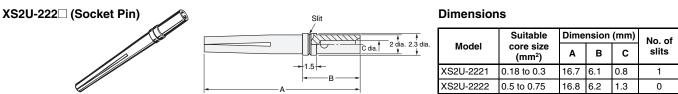
Ordering Information

Suitable cable dia. (mm)	Cable connection direction	Connection method	Model	Minimum order
	Straight	Crimping	XS2C-D4C1	
6-mm-dia. model	Straight	Soldering	XS2C-D421	
(5 to 6 mm dia.)	Anglad	Crimping	XS2C-D4C2	
	Angled	Soldering	XS2C-D422	
	Straight	Crimping	XS2C-D4C3	
4-mm-dia. model		Soldering	XS2C-D423	50
(4 to 5 mm dia.)	Anglad	Crimping	XS2C-D4C4	
	Angled	Soldering	XS2C-D424	
	Straight	Crimping	XS2C-D4C5	
3-mm-dia. model (3 to 4 mm dia.)	Straight	Soldering	XS2C-D425	
	Angled	Crimping	XS2C-D4C6	
	Angled	Soldering	XS2C-D426	

Note: Crimping plug contacts are sold separately.

■ XS2U (Crimping Pin for XS2C)

Dimensions



Note: A special tool must be used for crimping. For details, refer to the "XS5/XS2 - Assembly Tooling and Accessories" datasheet.

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	100

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

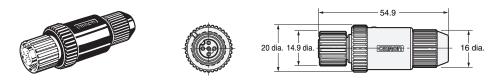


(Unit: mm)

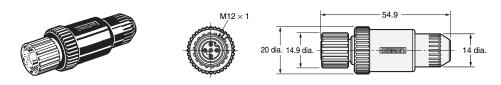
■ XS2C - Sockets, Screw Terminals

Dimensions

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



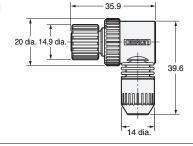
XS2C-D5S1 (5-core, Straight, Applicable Cable Outer Diameter: 6 mm) XS2C-D4S^(4-core, Straight, Applicable Cable Outer Diameter: 3, 4, or 6 mm)



XS2C-D5S2 (5-core, Angled, Applicable Cable Outer Diameter: 6 mm) XS2C-D4S⁽¹⁾ (4-core, Angled, Applicable Cable Outer Diameter: 3, 4, or 6 mm)







Ordering Information

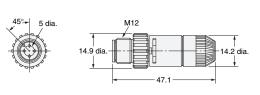
	Switchle cohio dia (mm)	Straight connectors	Angled connectors	Minimum order
No. of poles	Suitable cable dia. (mm)	Model	Model	Minimum order
	8-mm-dia. model (7 to 8 mm dia.)	XS2C-D5S7	—	
5	7-mm-dia. model (6 to 7 mm dia.)	XS2C-D5S9	—	
	6-mm-dia. model (5 to 6 mm dia.)	XS2C-D5S1	XS2C-D5S2	
	8-mm-dia. model (7 to 8 mm dia.)	XS2C-D4S7	—	
	7-mm-dia. model (6 to 7 mm dia.)	XS2C-D4S9	—	50
4	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	

■ XS2G - Plugs, Crimping / Soldering Terminals

Dimensions

XS2G-□4C□ (Crimping Model) XS2G-0420 (Soldering Model) Straight





XS2G-D42 (Soldering Model) Angled



35.7 5 dia 23

Ordering Information

Suitable cable dia. (mm)	Cable connection direction	Connection method	Model	Minimum order
	Churcianha	Crimping	XS2G-D4C1	
6-mm-dia. model (5 to 6 mm dia.)	Straight	Soldering	XS2G-D421	
(5 to 6 min dia.)	Angled	Soldering	XS2G-D422	
	Straight	Crimping	XS2G-D4C3	50
4-mm-dia. model (4 to 5 mm dia.)		Soldering	XS2G-D423	
(4 to 5 min dia.)	Angled	Soldering	XS2G-D424	
	Churcianha	Crimping	XS2G-D4C5	
3-mm-dia. model (3 to 4 mm dia.)	Straight	Soldering	XS2G-D425	
	Angled	Soldering	XS2G-D426	-

15°≁

Note: Crimping plug contacts are sold separately.

■XS2U (Crimping Pin for XS2G)

Dimensions

XS2U-312 (Plug Pin)



1 dia. 2 dia. 2.3 dia dia. 1.5 B

Dimensions

	Suitable	Dime	nsion	(mm)	No. of
Model	core size (mm²)	Α	в	С	slits
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

(Unit: mm)

Note: A special tool must be used for crimping. For details, refer to the "XS5/XS2 - Assembly Tooling and Accessories" datasheet.

Ordering Information

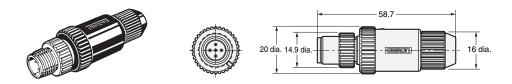
Suitable core size (mm ²)	Model	Minimum order
0.18 to 0.3	XS2U-3121	100
0.5 to 0.75	XS2U-3122	100

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

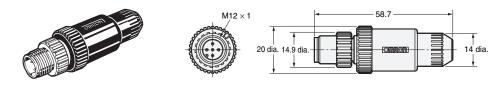
■ XS2G - Plugs, Screw Terminals

Dimensions

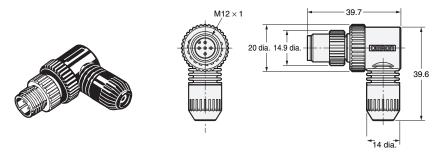
XS2G-D5S7 (5-core, Straight, Applicable Cable Outer Diameter: 8 mm) XS2G-D5S9 (5-core, Straight, Applicable Cable Outer Diameter: 7 mm) XS2G-D4S7 (4-core Straight, Applicable Cable Outer Diameter: 8 mm) XS2G-D4S9 (4-core Straight, Applicable Cable Outer Diameter: 7 mm)



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



XS2G-D5S2 (5-core, Angled, Applicable Cable Outer Diameter: 6 mm) XS2G-D4S⁽¹⁾ (4-core, Angled, Applicable Cable Outer Diameter: 3, 4, or 6 mm)



Ordering Information

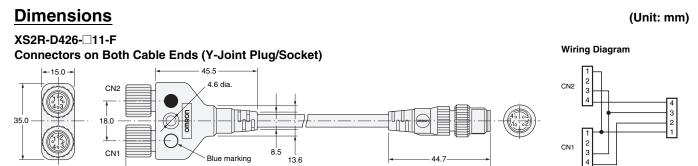
No. of poles	Suitable cable dia. (mm)	Straight connectors	Angled connectors	Minimum order
No. of poles		Model	Model	winning order
	8-mm-dia. model (7 to 8 mm dia.)	XS2G-D5S7	—	
5	7-mm-dia. model (6 to 7 mm dia.)	XS2G-D5S9	—	
	6-mm-dia. model (5 to 6 mm dia.)	XS2G-D5S1	XS2G-D5S2	
	8-mm-dia. model (7 to 8 mm dia.)	XS2G-D4S7	—	50
	7-mm-dia. model (6 to 7 mm dia.)	XS2G-D4S9	—	50
4	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 terminal Plugs cannot be connected to side by side to the CN1 and CN2 connectors of XS2R Y-Joint Sockets/Plugs.

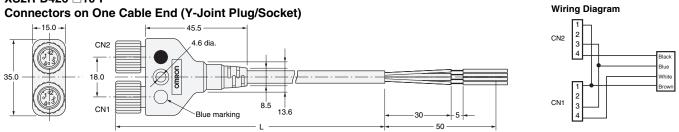
CN0

Y-Joint 4-Pin Plug/Socket Connectors

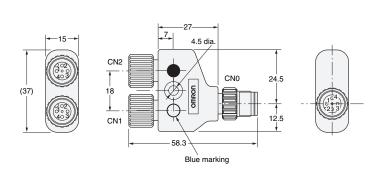
XS2R



XS2R-D426-010-F



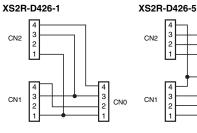
XS2R-D426-1 Y-Joint Plug/Socket without Cable

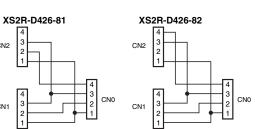


Wiring Diagram

CN2

CN1





Ordering Information

Туре	Connector	Cable length L (m)	Model	Minimum order	
		0.5	XS2R-D426-B11-F		
		1	XS2R-D426-C11-F		
With apple	Connectors on both cable ends	2	XS2R-D426-D11-F	_	
With cable		3	XS2R-D426-E11-F	5	
	Connector on one cable end	2	XS2R-D426-D10-F	_	
		5	XS2R-D426-G10-F		
Without cable			XS2R-D426-1		
	V loint plug/cookot		XS2R-D426-5	10	
	Y-Joint plug/socket		XS2R-D426-81	10	
			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.

(Unit: mm)

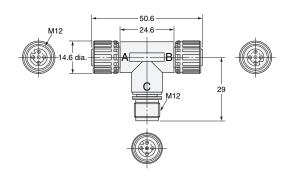
T-Joint Plug/Socket Connectors

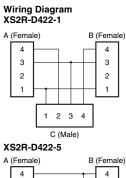
■ XS2R

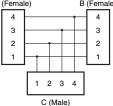
Dimensions

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



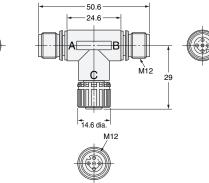




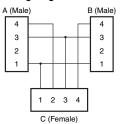


XS2R-D423-1 **Bifurcated Model**









B (Male)

4

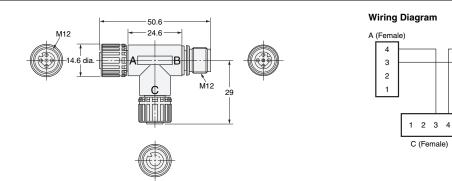
3

2

1

XS2R-D424-1 **Daisy-chain Model**





Ordering Information

Туре	Model	Minimum order
Aggragata madal	XS2R-D422-1	
Aggregate model	XS2R-D422-5	20
Bifurcated model	XS2R-D423-1	20
Daisy-chain model	XS2R-D424-1	

Safety Precautions

Correct Use - XS2R

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.

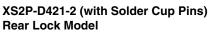
See the end of this datasheet for XS2R Application examples.

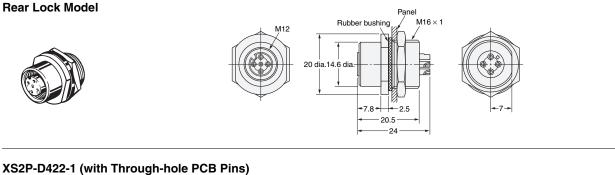
See "XS5/XS2 - Assembly Tooling and Accessories" datasheet for information regarding assembly, tooling and accessories that are common to the XS5 and XS2 connectors

■ XS2P - Sockets

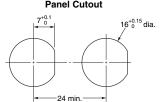
Dimensions

(Unit: mm)

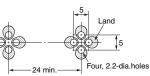




XS2P-D422-2 (with Solder Cup Pins) Pane Panel Front Lock Model M16 Rubber bushing $M16 \times 1$ Rubber bushing 1 5 dia M12 20 dia. 14 dia. 16 dia. -87 25 20.5 -17 - 23.5 24 -27 With Through-hole PCB Pins With Solder Cup Pins Panel Cutout **PCB-mounting Dimensions**

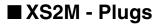


Note: The panel thickness is 1 to 4 mm.



Ordering Information

Lock method	Pin shape	Model	Minimum order
Rear lock	Solder cup pin	XS2P-D421-2	
Front lock	Solder cup pin	XS2P-D422-2	50
FIGHT ICCK	Through-hole PCB pin	XS2P-D422-1	

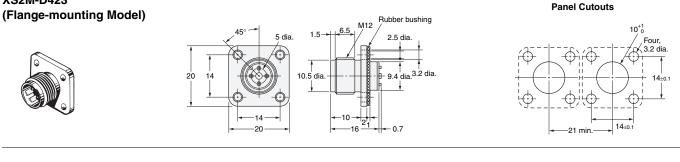


Dimensions

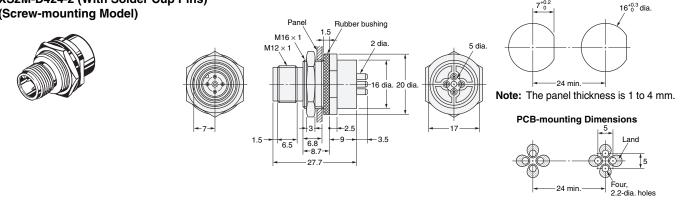
XS2M-D423

(Unit: mm)

Panel Cutouts



XS2M-D424-1 (With PCB Pins) XS2M-D424-2 (With Solder Cup Pins) (Screw-mounting Model)

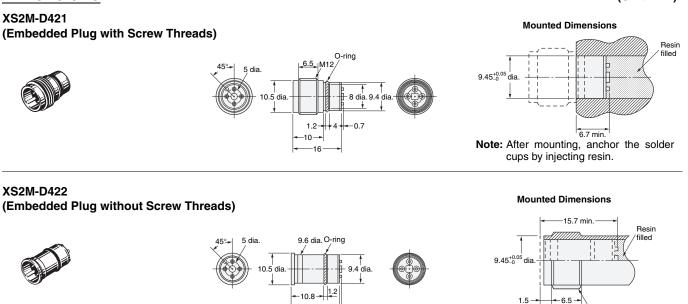


Connectors for Embedding in Sensors

■ XS2M - Plugs

Dimensions

(Unit: mm)



0.7

16

 $\dot{M12 \times 1}$ Note: After mounting, anchor the solder cups by injecting resin.

6.5

1.5

8-Pin Connector with Cable Attached/Panel-mount

■XS2□

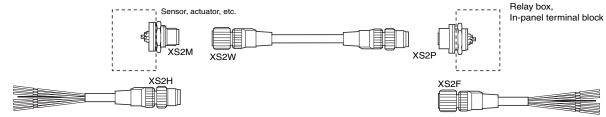
Ordering Information

Connector type	Cable connection di- rection	Number of cores	Cable length (m)	Model
Popel mounting cooket				XS2P-D821-2
Panel-mounting socket	_			XS2P-D822-2
Panel-mounting plug				XS2M-D824-4
Diver on one apple and		0	0.3	XS2H-D821-AH0-C
Plug on one cable end			1	XS2H-D821-CH0-C
Socket on one cable end	Straight		2	XS2F-D821-DH0-C
Socket on one cable end		8	5	XS2F-D821-GH0-C
Divergend as always an askila and			2	XS2W-D821-DH1-C
Plug and socket on cable ends			5	XS2W-D821-GH1-C

Pin Numbers and Cable Lead Colors

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

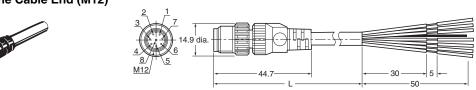
Wiring Example



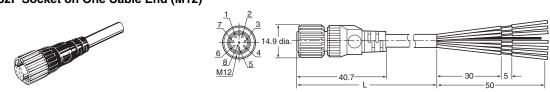
(Unit: mm)

Dimensions

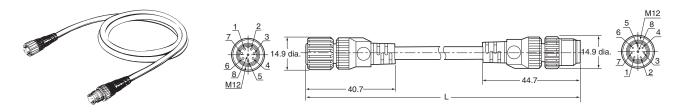
XS2H Plug on One Cable End (M12)

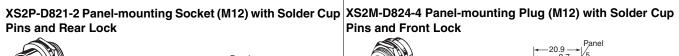


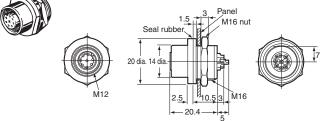
XS2F Socket on One Cable End (M12)

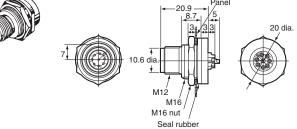


XS2W Plug and Socket on Cable Ends (M12)

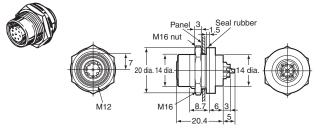




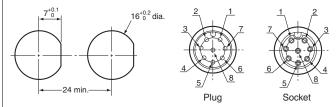




XS2P-D822-2 Panel-mounting Socket (M12) with Solder Cup Pins and Front Lock



Connector Pin Numbers (from Mating Side)



Note: 1. Mounting panel thickness: 1 to 4 mm.

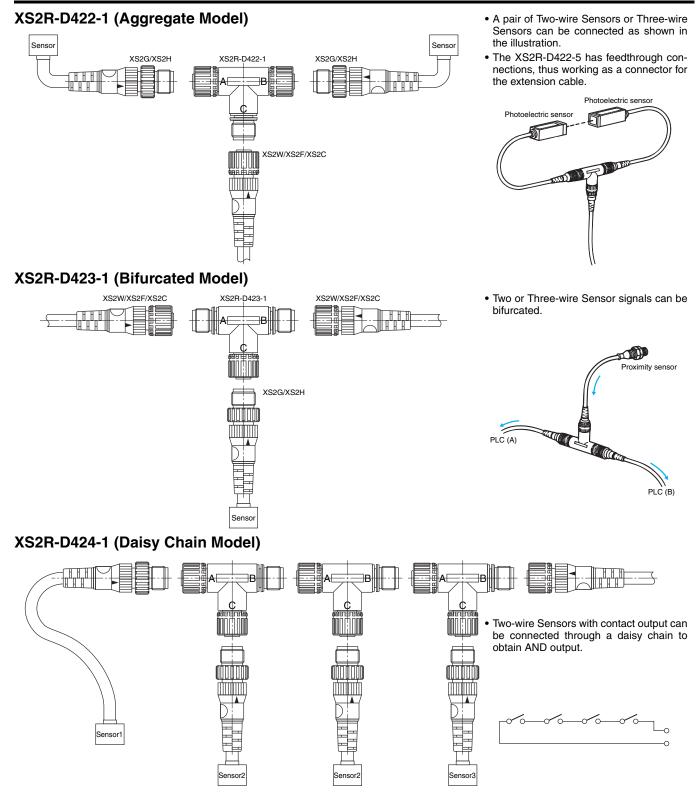
Panel Cutouts

- 2. Applicable core wire size for solder cup pins: 0.5 mm² max.
- **3.** The M16 nut and seal rubber are included.

Ordering Information

Mounting method	Pin shape	Model	Minimum order
Embedded with screw threads		XS2M-D421	
Embedded with no screw threads	Solder cup pin	XS2M-D422	
Flange-mounting		XS2M-D423	50
Corour mounting	Through-hole PCB pin	XS2M-D424-1	
Screw-mounting	Solder cup pin	XS2M-D424-2	

XS2R Application Examples



List of XS2 Products - Summary

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

Note: 1. See "XS5/XS2 - Assembly Tooling and Accessories" datasheet for information regarding assembly, tooling and accessories that are common to the XS5 and XS2 connectors

2. See "XS5" datasheet for specifics regarding those connectors

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