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
- 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	nax., 100 mA max.)
Insulation resistance	1,000 M Ω min. (at 500	VDC)
Dielectric strength (leakage current: 1 mA max.)	1,500 VAC for 1 min	1,000 VAC for 1 min
Degree of protection	IP67 (IEC60529)	
Insertion tolerance	200 times min.	

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

Item	3 cores	4 cores	5 cores	8 cores
Color	Black			Light Grey
Outer diameter	5 mm dia.	5.4 mm dia.	5.8 mm dia.	6 mm dia.
Conductor size	AWG22 0.34	mm² (43 × 0.	1)	0.25 mm ² (20 × 0.127)
Approvals	AWM			_
Features	Flame retarda	ant		_
Temperature range	Cable fixed: - Cable moved	10 to +80°C / : -0 to +60°C		-25°C to +70°C

■ PVC Cable (For IP69K)

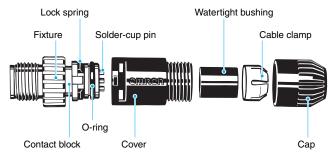
Item	Standard	Heat-resistant
Color	Light Gray	Black
Outer diameter	6 mm dia.	
Conductor size	AWG20 0.5 mm ² (100 × 0.08)	AWG20 0.5 mm ² (45 × 0.12)
Approvals	CL3	
Features	Flame retardant	Heat and chemical resistant
Temperature range	-25 to +70°C	-25 to +105°C

■ 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	² (43 × 0.1)	
Approvals	AWM		
Features	Flame retardant Halogen free Oil resistance		
Temperature range	Cable fixed: -50 to	+80°C / Cable mo	ved: -25 to +80°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

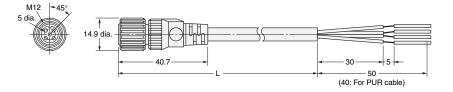
■ XS2F - Socket on One Cable End

XS2F-M12PVC M PVC Cable	
XS2F-M12PUR DDM PUR Cable	c AL °us

Dimensions (Unit: mm)

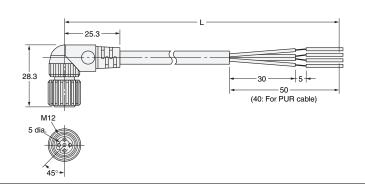
Straight



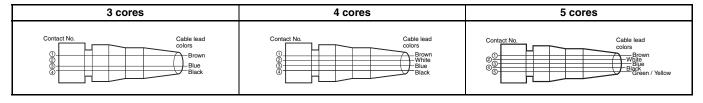


Angled





Wiring Diagram



Ordering Information

Connector	Size	Cable material	Cores	Shape	Length (m)	Product description
					2	XS2F-M12PVC3A2M
				Angled	5	XS2F-M12PVC3A5M
			0		10	XS2F-M12PVC3A10M
			3		2	XS2F-M12PVC3S2M
				Straight	5	XS2F-M12PVC3S5M
					10	XS2F-M12PVC3S10M
					2	XS2F-M12PVC4A2M
		PVC		Angled	5	XS2F-M12PVC4A5M
		PVC	4		10	XS2F-M12PVC4A10M
			4		2	XS2F-M12PVC4S2M
				Straight	5	XS2F-M12PVC4S5M
					10	XS2F-M12PVC4S10M
				Angled	2	XS2F-M12PVC5A2M
			5	Arigieu	5	XS2F-M12PVC5A5M
			5	Ctroight	2	XS2F-M12PVC5S2M
Socket	M12			Straight	5	XS2F-M12PVC5S5M
Socker	IVI I Z				2	XS2F-M12PUR3A2M
				Angled	5	XS2F-M12PUR3A5M
			3		10	XS2F-M12PUR3A10M
			3		2	XS2F-M12PUR3S2M
				Straight	5	XS2F-M12PUR3S5M
					10	XS2F-M12PUR3S10M
					2	XS2F-M12PUR4A2M
		PUR		Angled	5	XS2F-M12PUR4A5M
		PUR	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	Ctroight	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.



- 1. Screw Type
 - M12: M12 size
- 2. Cable type
 - PVC: PVC cable PUR: PUR cable
- 3. Number of Poles
 - 3: 3 cores
 - 4: 4 cores
 - 5: 5 cores

- 4. Shape
 - Angled A:
 - Straight
- 5. Cable Length
 - 2M: 2 m
 - 5M: 5 m
 - 10M: 10 m

■ XS2F - Socket on One Cable End with LED

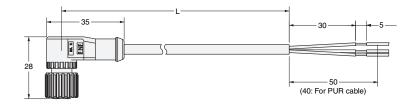
XS2F-M12PVC MLED PVC Cable XS2F-M12PUR MLED PUR Cable



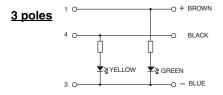
Dimensions (Unit: mm)

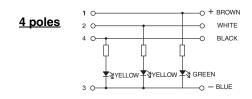
Angled





Wiring Diagram





Ordering Information

Connector Type	Shape	Size	Number of Poles	Cable Material	Cable Length (M)	Model
					2	XS2F-M12PVC3A2MLED
			3		5	XS2F-M12PVC3A5MLED
				PVC	10	XS2F-M12PVC3A10MLED
				FVC	2	XS2F-M12PVC4A2MLED
			4		5	XS2F-M12PVC4A5MLED
Socket	Anglad	M12			10	XS2F-M12PVC4A10MLED
Socket	Angled	IVI 12			2	XS2F-M12PUR3A2MLED
			3		5	XS2F-M12PUR3A5MLED
				PUR	10	XS2F-M12PUR3A10MLED
				FUR	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.

XS2F - M12 A A A A LED 3 4 5

1. Screw Type

M12: M12 size

2. Cable type

PVC: PVC cable PUR: PUR cable

3. Number of Poles

3 cores 3:

4: 4 cores 4. Shape

A: Angled

5. Cable Length

2M: 2 m 5M: 5 m

10M: 10 m 6. LED

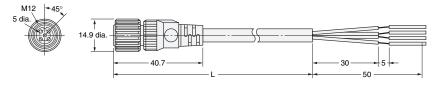
LED: with LED

■ XS2F - Sockets on One Cable End with IP69K rating

(Unit: mm)

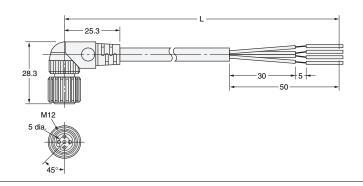
Dimensions



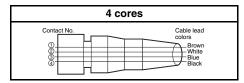


Angled





Wiring Diagram



Ordering Information

Connector	Size	Cable material	Cores	Shape	Length (m)	Product description
					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
				Straight	5	XS2F-E421-G80-F
Socket	M12		4		10	XS2F-E421-J80-F
Socker	IVIIZ		4		2	XS2F-E422-D80-E
				Angled	5	XS2F-E422-G80-E
		Heat Resistant			10	XS2F-E422-J80-E
		neat nesistant			2	XS2F-E421-D80-E
				Straight	5	XS2F-E421-G80-E
					10	XS2F-E421-J80-E

Note: XS2F-E42 \square models with -F are c*RU*us 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.

- 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. Cable 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

■ XS2H - Plugs on One Cable End

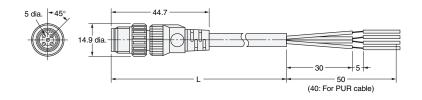
XS2H-M12PVC S M PVC Cable XS2H-M12PUR S M PUR Cable



Dimensions (Unit: mm)

Straight





Wiring Diagram

3 cores	4 cores	5 cores
Contact No. Cable lead colors Brown Blue Black	Contact No. Cable lead colors Grown White Blue Black	Contact No. Cable lead colors Brown Gold Brown Blue Blue Green / 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		2	XS2H-M12PVC5S2M
Dluc	Mao		5	Ctroimht	5	XS2H-M12PVC5S5M
Plug	M12			Straight	2	XS2H-M12PUR3S2M
			3		5	XS2H-M12PUR3S5M
					10	XS2H-M12PUR3S10M
		DUD			2	XS2H-M12PUR4S2M
		PUR	4		5	XS2H-M12PUR4S5M
					10	XS2H-M12PUR4S10M
			5		2	XS2H-M12PUR5S2M
			Э		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.

XS2H - M12 □□□ □S □□M

1. Screw Type

M12: M12 size

2. Cable type

PVC: PVC cable PUR: PUR cable

3. Number of Poles

3: 3 cores 4: 4 cores

5 cores

4. Shape

S: Straight

5. Cable Length

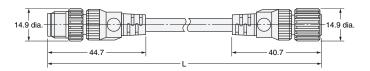
2M: 2 m 5M: 5 m 10M: 10 m

■ XS2W - Socket and Plug on Cable Ends

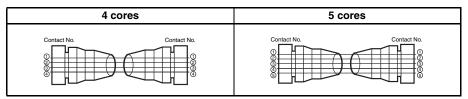
XS2W-M12PUR SS M PUR Cable

Dimensions (Unit: mm)

Straight/Straight



Wiring Diagram



Ordering Information

Connector	Size	Cable material	Cores	Sh	аре	Length (m)	Product description	
Connector	Size	Cable Illaterial	Cores	Plug	Socket	Length (III)	Product description	
						2	XS2W-M12PVC4SS2M	
			4			5	XS2W-M12PVC4SS5M	
		PVC			aight Straight	10	XS2W-M12PVC4SS10M	
		PVC		5 Straight Straigh 4 5		2	XS2W-M12PVC5SS2M	
5.11						5	XS2W-M12PVC5SS5M	
	M12					10	XS2W-M12PVC5SS10M	
Both	IVI I Z	DUD	4			2	XS2W-M12PUR4SS2M	
						5	XS2W-M12PUR4SS5M	
						10	XS2W-M12PUR4SS10M	
		PUR			1 [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*.

XS2W - M12 □□□ □SS □□M 3 4 5

1. Screw Type

M12: M12 size

2. Cable type

PVC: PVC cable PUR: PUR cable

3. Number of Poles

4: 4 cores 5: 5 cores 4. Shape

SS: Straight / Straight

5. Cable Length

2M: 2 m 5M: 5 m 1M: 10 m

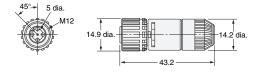
4-Pin and 5-Pin Assembly Connector

■ XS2C - Sockets, Crimping / Soldering Terminals



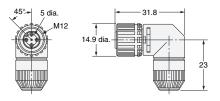
Dimensions (Unit: mm)





Angled





Ordering Information

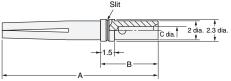
Suitable cable dia. (mm)	Cable connection direction	Connection method	Model	Minimum order
	Straight	Crimping	XS2C-D4C1	
6-mm-dia. model	Straight	Soldering	XS2C-D421	
(5 to 6 mm dia.)	Anglad	Crimping	XS2C-D4C2	
	Angled	Soldering	XS2C-D422	
4-mm-dia. model (4 to 5 mm dia.)	Straight	Crimping	XS2C-D4C3	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

Note: Crimping plug contacts are sold separately.

■XS2U (Crimping Pin for XS2C)

Dimensions (Unit: mm)





	Suitable	Dime	nsion	(mm)	No. of
Model	core size (mm²)	Α	В	С	slits
XS2U-2221	0.18 to 0.3	16.7	6.1	8.0	1
XS2U-2222	0.5 to 0.75	16.8	6.2	1.3	0

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 (mm²)	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.

Dimensions

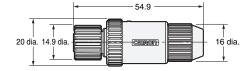
■ XS2C - Sockets, Screw Terminals

Dimensions (Unit: mm)

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)



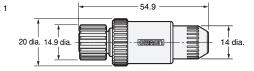




XS2C-D5S1 (5-core, Straight, Applicable Cable Outer Diameter: 6 mm) XS2C-D4S□ (4-core, Straight, Applicable Cable Outer Diameter: 3, 4, or 6 mm)



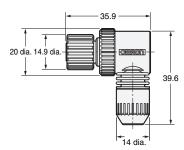




XS2C-D5S2 (5-core, Angled, Applicable Cable Outer Diameter: 6 mm) XS2C-D4S□ (4-core, Angled, Applicable Cable Outer Diameter: 3, 4, or 6 mm)







Ordering Information

No. of polos	Suitable cable 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	_	50
	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



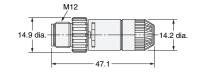
(Unit: mm)

Dimensions

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

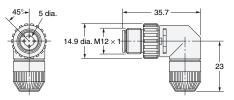






XS2G-D42□ (Soldering Model) **Angled**





Ordering Information

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

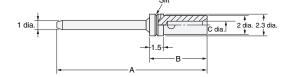
Note: Crimping plug contacts are sold separately.

(Crimping Pin for XS2G)

Dimensions (Unit: mm)

XS2U-312□ (Plug Pin)





Dimensions

		Dime	nsion	No. of	
Model	core size (mm²)	Α	В	С	slits
XS2U-3121	0.18 to 0.3	20.0	6.1	8.0	1
XS2U-3122	0.5 to 0.75	20.1	6.2	1.3	0

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 (mm²)	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.

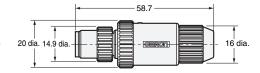
■ XS2G - Plugs, Screw Terminals

Dimensions (Unit: mm)

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)



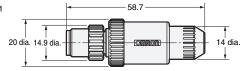




XS2G-D5S1 (5-core Straight, Applicable Cable Outer Diameter: 6 mm) XS2G-D4S□ (4-core, Straight, Applicable Cable Outer Diameter: 3, 4, or 6 mm)



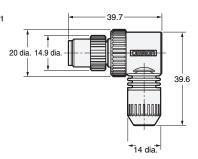




XS2G-D5S2 (5-core, Angled, Applicable Cable Outer Diameter: 6 mm) XS2G-D4S□ (4-core, Angled, Applicable Cable Outer Diameter: 3, 4, or 6 mm)







Ordering Information

No of poles	Suitable cable dia (mm)	Straight connectors	Angled connectors	Minimum order
No. of poles	Suitable cable dia. (mm)	Model	Model	- wimimum 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.

Y-Joint 4-Pin Plug/Socket Connectors

XS2R

Dimensions (Unit: mm) XS2R-D426-□11-F Wiring Diagram Connectors on Both Cable Ends (Y-Joint Plug/Socket) 45.5 4.6 dia. CN2 35.0 18.0 Blue marking XS2R-D426-□10-F Wiring Diagram Connectors on One Cable End (Y-Joint Plug/Socket) CN2 35.0 18.0 CN1 13.6 Blue marking XS2R-D426-1 Wiring Diagram Y-Joint Plug/Socket without Cable XS2R-D426-1 XS2R-D426-5 CN₂ XS2R-D426-82 XS2R-D426-81 Blue marking

Ordering Information

Туре	Connector	Cable length L (m)	Model	Minimum order
With cable		0.5	XS2R-D426-B11-F	
	Compositors on both coble and	1	XS2R-D426-C11-F	
	Connectors on both cable ends	2	XS2R-D426-D11-F	5
		3	XS2R-D426-E11-F	5
	Connector on one cable end	2	XS2R-D426-D10-F	
	Connector on one cable end	5	XS2R-D426-G10-F	
			XS2R-D426-1	
Without cable	V laint plug/aggleat		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.

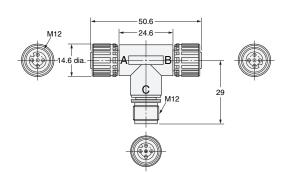
T-Joint Plug/Socket Connectors

■ XS2R

Dimensions

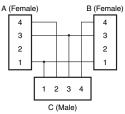
XS2R-D422-1 XS2R-D422-5 **Aggregate Models**



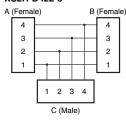


(Unit: mm)

Wiring Diagram XS2R-D422-1

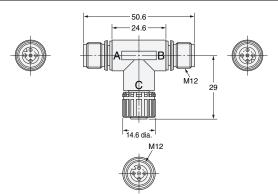


XS2R-D422-5

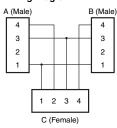


XS2R-D423-1 **Bifurcated Model**



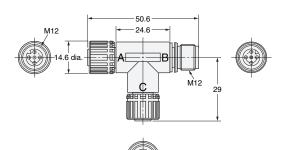


Wiring Diagram

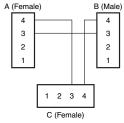


XS2R-D424-1 **Daisy-chain Model**









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

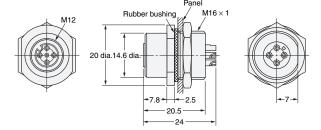
Panel-mount Connectors

■ XS2P - Sockets

Dimensions (Unit: mm)

XS2P-D421-2 (with Solder Cup Pins) **Rear Lock Model**

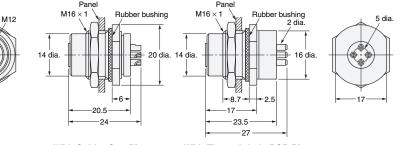




XS2P-D422-1 (with Through-hole PCB Pins) XS2P-D422-2 (with Solder Cup Pins)

Front Lock Model

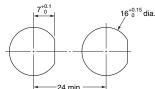




With Solder Cup Pins

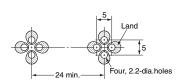
With Through-hole PCB Pins

Panel Cutout



Note: The panel thickness is 1 to 4 mm.

PCB-mounting Dimensions



Ordering Information

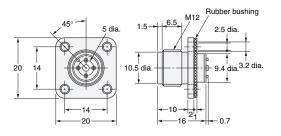
Lock method	Pin shape	Model	Minimum order
Rear lock	Solder cup pin	XS2P-D421-2	
Front lock	Solder cup pin	XS2P-D422-2	50
FIGHT IOCK	Through-hole PCB pin	XS2P-D422-1	

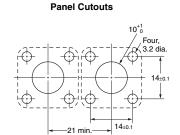
■ XS2M - Plugs

Dimensions (Unit: mm)

XS2M-D423 (Flange-mounting Model)

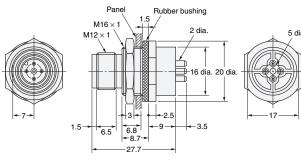


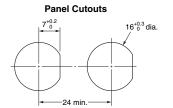




XS2M-D424-1 (With PCB Pins) XS2M-D424-2 (With Solder Cup Pins) (Screw-mounting Model)

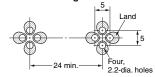






Note: The panel thickness is 1 to 4 mm.

PCB-mounting Dimensions



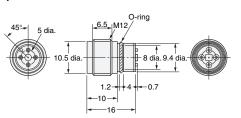
Connectors for Embedding in Sensors

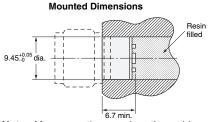
■ XS2M - Plugs

Dimensions (Unit: mm)

XS2M-D421 (Embedded Plug with Screw Threads)





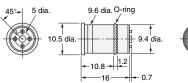


Note: After mounting, anchor the solder cups by injecting resin.

Mounted Dimensions

XS2M-D422 (Embedded Plug without Screw Threads)







15.7 min. Resin 9.45+0.0

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

8-Pin Connector with Cable Attached/Panel-mount

■XS2□

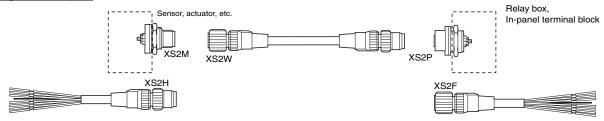
Ordering Information

Connector type	Cable connection di- rection	Number of cores	Cable length (m)	Model
Panel-mounting socket	_	_	_	XS2P-D821-2
				XS2P-D822-2
Panel-mounting plug				XS2M-D824-4
Plug on one cable end		0.3 1 2 5 2 5	0.3	XS2H-D821-AH0-C
			1	XS2H-D821-CH0-C
Socket on one cable end	Ctroight		2	XS2F-D821-DH0-C
	Straight		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	1	2	3	4	5	6	7	8
colors	White	Brown	Green	Yellow	Gray	Pink	Blue	Shield

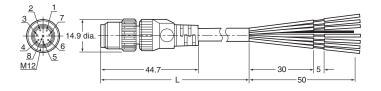
Wiring Example



Dimensions (Unit: mm)

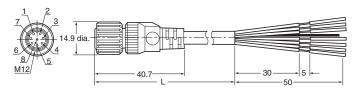
XS2H Plug on One Cable End (M12)





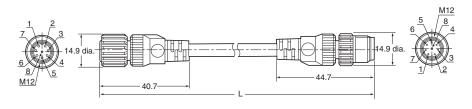
XS2F Socket on One Cable End (M12)



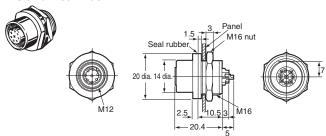


XS2W Plug and Socket on Cable Ends (M12)

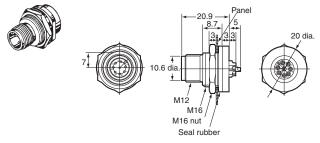




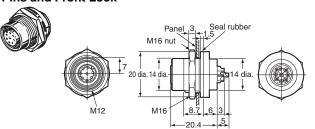
XS2P-D821-2 Panel-mounting Socket (M12) with Solder Cup **Pins and Rear Lock**



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

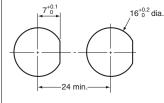


XS2P-D822-2 Panel-mounting Socket (M12) with Solder Cup **Pins and Front Lock**

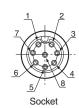


Panel Cutouts

Connector Pin Numbers (from Mating Side)







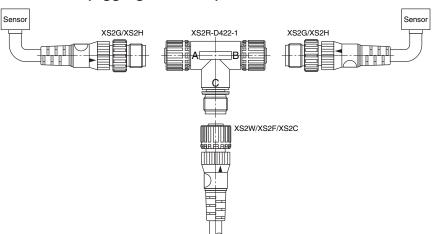
- Note: 1. Mounting panel thickness: 1 to 4 mm.
 - 2. Applicable core wire size for solder cup pins: 0.5 mm² max.
 - 3. The M16 nut and seal rubber are included.

Ordering Information

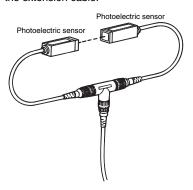
Mounting method	Pin shape	Model	Minimum order
Embedded with screw threads		XS2M-D421	
Embedded with no screw threads	Solder cup pin	XS2M-D422	
Flange-mounting		XS2M-D423	50
Screw-mounting	Through-hole PCB pin	XS2M-D424-1	
	Solder cup pin	XS2M-D424-2	

XS2R Application Examples

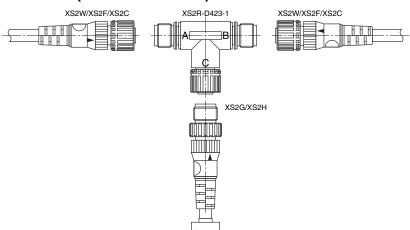
XS2R-D422-1 (Aggregate Model)



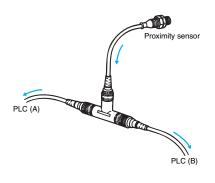
- · A pair of Two-wire Sensors or Three-wire Sensors can be connected as shown in the illustration.
- The XS2R-D422-5 has feedthrough connections, thus working as a connector for the extension cable.



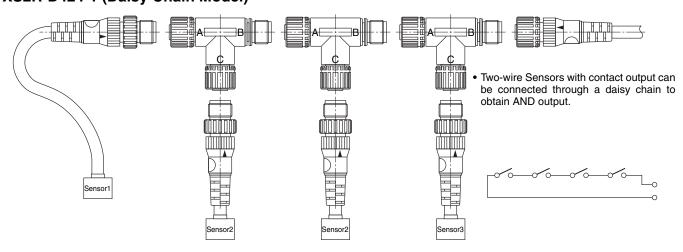
XS2R-D423-1 (Bifurcated Model)



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



XS2R-D424-1 (Daisy Chain Model)



List of XS2 Products - Summary

Name	Model		Appearance		
	XS2W Sockets and Plugs on 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		omnon		
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 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	XS2M Plugs	Embedded Plugs with Screw Threads			
sed to enable using connectors in ensors.	NOZIVI I IUYS	Embedded Plugs with No Screw Threads			
6. Panel-mounting Connectors	VCOM Plum	Flange-mounting Plugs			
Used to enable using I/O box connectors 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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