OMRON

Round Water-resistant Connectors (M8/S8)



Small Round Water-resistive Connectors

- Water-resistive, compact connector meets IP67 requirements.
- Conventional M8 screw-on models are available along with S8 snap-in models that connect and disconnect with one touch.
- XS3-R Series; connectors with cables are available. M8 models are UL certified.
- Oil-resistant Polyurethane Robot Cables added.
- M8-M12 conversion cables are also available.

For the most recent information on models that have been certified for safety standards, refer to your OMRON website.

Refer to Safety Precautions on page 26.

Model Number Legend

Connectors with Cables Model Number Legend

Connector	Cable an astriantiana		XS3: M8 screw connection	
Connector	Cable specifications	Cable length (m)	Model	Reference page
		1	XS3W-M421-401-R	
	Robot cable	2	XS3W-M421-402-R	
	Robol cable	5	XS3W-M421-405-R	_
Connectors on both cable ends		10	XS3W-M421-410-R	3
Connectors on both cable ends		1	XS3W-M421-401-PR	
	Oil-resistant polyurethane	2	XS3W-M421-402-PR	
	robot cable	5	XS3W-M421-405-PR	
		10	XS3W-M421-410-PR	_
		2	XS3F-M421-402-A	
	Standard cable	5	XS3F-M421-405-A	_
		10	XS3F-M421-410-A	_
		1	XS3F-M421-401-R	
	Robot cable	2	XS3F-M421-402-R	_
Connector on one cable end		5	XS3F-M421-405-R	- 10
(Socket)		10	XS3F-M421-410-R	10
		2	XS3F-M421-402-PR	
	Oil-resistant polyurethane robot cable	5	XS3F-M421-405-PR	_
	Tobot cable	10	XS3F-M421-410-PR	_
	PUR (low-temperature use)	2	XS3F-M421-402-L	
	cable	5	XS3F-M421-405-L	_
	Robot cable	0.3	XS3H-M421-4C3-R	
Connector on one cable end	Rubul cable	1	XS3H-M421-401-R	16
(Plug)	Oil-resistant polyurethane	2	XS3H-M421-402-PR	10
	robot cable	5	XS3H-M421-405-PR	

Note: Only DC, straight, and 4-core types are shown in this table. Refer to the relevant pages for other products.

Ratings and Specifications

Item Model	XS3F/H/W/P/M	XS3F-M52□-5□□-A	XS3M-M524-1	XS3R		
Rated current	1 ADC	3 ADC	1 ADC			
Rated voltage	125 VDC *2	30 VDC		125 VDC		
Contact resistance (connector)	40 m Ω max. (20 mV max.	., 100mA max.)	60 mΩ max. (20 mV max., 100 mA max.)			
Insulation resistance	1,000 M Ω min. (at 500 VE	/DC)				
Dielectric strength (connector)	1,000 VAC for 1 min (leakage current: 1 mA max.)	650 VAC for 1 min (leakage current: 1 mA max.)		1,000 VAC for 1 min (leakage current: 1 mA max.)		
Degree of protection	IP67 (IEC60529)					
Insertion tolerance	200 times					
Cable tensile strength *1	49 N/15 s					
Ambient operating temperature range	−25 to 70°C *3	-25 to 85°C		-25 to 70°C		
Ambient humidity range	20 to 85%RH					

*1. Models with cable only *2. Except 5 poles *3. 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.

Materials and Finish

Connector

	Туре		M8			S8		
Item	Model	XS3F/H/W/R	XS3P/M *1	XS3M-M524-1	XS3F/W (Socket side)	XS3H/W (Plug side)	XS3P	
Contacts		Phosphor bronze/ nickel base, gold plating	Brass/nickel base, gold plating	,	Phosphor bronze/ nickel base, gold plating	Brass/nickel base, gold plating		
Fixture		Brass/nickel platin	g or SUS316L	-	_	Brass/nickel plating	—	
Contact blo	ock	PBT resin (UL94 \	/-0)	1				
O-ring		Rubber						
Cover		Soft PBT resin *2	_	_	TPEE			
*1. Except 5 pol	les	Soft PBT resin *2	-	_	TPEE			

Except XS3R-M426-4050-PR. Material of the cover of XS3R-M426-4050-PR: PBT resin Note: The XS3M is for both M8 and S8.

Cables

Item Poles	3 poles	5 poles	
Standard cable	4 mm dia, AWG24 (0.2 mm ²)	4.7 mm dia, AWG24 (0.2 mm ²)	
Robot Cable	4 mm dia, AWG24		_
Oil-resistant polyurethane robot cable	_	4.7 mm dia, AWG23 (0.3 mm ²)	_

Note: Only the XS3F (socket) is available with 5 poles.

Pin Arrangement (Engaged Side)

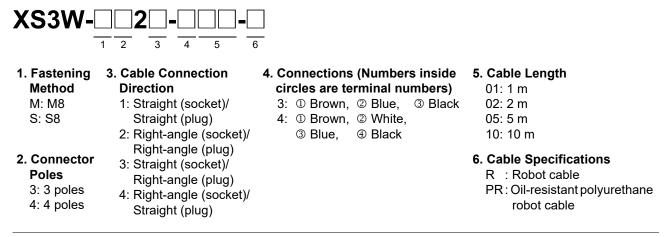
Item	Poles	3 poles	4 poles	5 poles
DC	Male (plug) contacts			
	Female (socket) contacts			

XS3W Connectors with Cables, Connectors on Both Cable Ends (Socket/Plug)

Model Number Structure

Model Number Legend

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



Ordering Information

M8 Screw-on Connectors

Cable specifications	No. of cable cores	Cable connection direction	Cable length L (m)	Model	UL
			1	XS3W-M321-301-R	
	3		2	XS3W-M321-302-R	
	3	Straight (Socket)/Straight (Plug)	5	XS3W-M321-305-R	
			10	XS3W-M321-310-R	
			1	XS3W-M421-401-R	
		Charlinght (Coolect)/Charlinght (Dlum)	2	XS3W-M421-402-R	UL2238
Dahataahla		Straight (Socket)/Straight (Plug)	5	XS3W-M421-405-R	certified
Robot cable			10	XS3W-M421-410-R	(File no.
	4	Dight angle (Casket)/Dight angle (glug)	2	XS3W-M422-402-R	E207683)
	4	Right-angle (Socket)/Right-angle (plug)	5	XS3W-M422-405-R	
		Straight (Socket)/Right-angled (Plug)	2	XS3W-M423-402-R	
			5	XS3W-M423-405-R	
		Right-angle (Socket)/Straight (Plug)	2	XS3W-M424-402-R	
			5	XS3W-M424-405-R	
		Straight (Socket)/Straight (plug)	1	XS3W-M421-401-PR	
			2	XS3W-M421-402-PR	
			5	XS3W-M421-405-PR	
			10	XS3W-M421-410-PR	
			1	XS3W-M422-401-PR	
		Right-angle (Socket)/Right-angle (Plug)	2	XS3W-M422-402-PR	
Oil-resistant polyurethane robot cable	4		5	XS3W-M422-405-PR	
			1	XS3W-M423-401-PR	
		Straight (Socket)/Right-angled (Plug)	2	XS3W-M423-402-PR	
			5	XS3W-M423-405-PR	
			1	XS3W-M424-401-PR	-
		Right-angle (socket)/Straight (Plug)	2	XS3W-M424-402-PR	
			5	XS3W-M424-405-PR	1

XS3

No. of cable **Cable length Cable specifications Cable connection direction** Model UL cores L (m) XS3W-S421-401-R 1 2 Straight (Socket)/Straight (Plug) XS3W-S421-402-R 5 XS3W-S421-405-R 2 XS3W-S422-402-R Right-angle (Socket)/Right-angle (Plug) XS3W-S422-405-R Robot cable 4 5 2 XS3W-S423-402-R Straight (Socket)/Right-angled (Plug) 5 XS3W-S423-405-R 2 XS3W-S424-402-R Right-angle (Socket)/Straight (Plug) 5 XS3W-S424-405-R

Note: Ask your OMRON representative about other cable lengths.

Ratings and Specifications

S8 Snap-in Connectors

Pin Arrangement (Engaged Side)

Item	No. of poles	3 poles	4 poles
DC type	Male (plug) contacts		
	Female (socket) contacts		

Connections

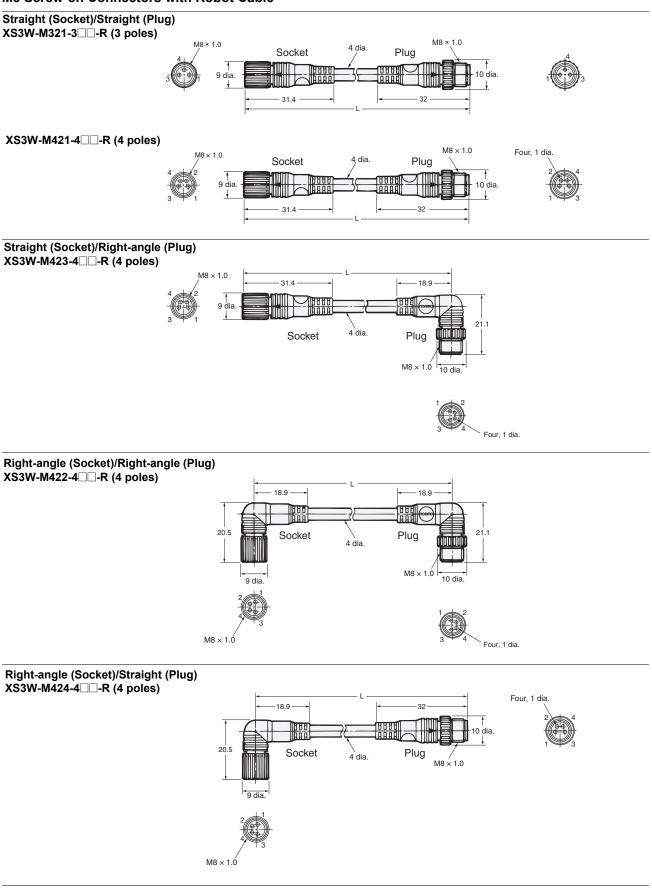
Model	Socket side	Plug side
XS3W (M8)	XS3M (M8/S8) XS3H (M8)	XS3F (M8) XS3W (M8) XS3P (M8)
XS3W (S8)	XS3M (M8/S8) XS3H (S8)	XS3F (S8) XS3W (S8) XS3P (S8)

Note 1. Cables can be extended with more than one XS3W. 2. M8 screw models and S8 snap-in models cannot be connected to each other.

3. Only plugs and sockets with the same poles can be connected to each other.

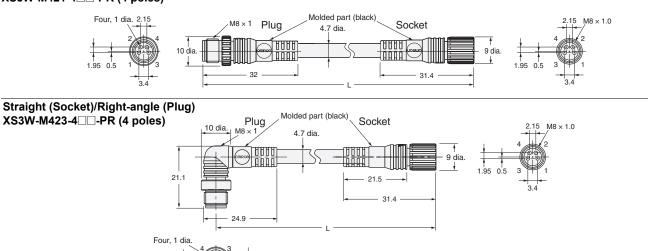
Dimensions

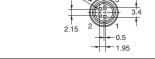
M8 Screw-on Connectors with Robot Cable



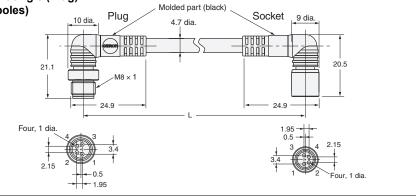
M8 Screw-on Connectors with Oil-resistant Polyurethane Robot Cable

Straight (Socket)/Straight (Pug) XS3W-M421-4□□-PR (4 poles)

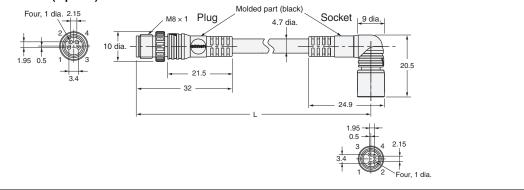




Right-angle (Socket)/Right-angle (Plug) XS3W-M422-4 - PR (4 poles)



Right-angle (Socket)/Straight (Plug) XS3W-M424-4 -PR (4 poles)

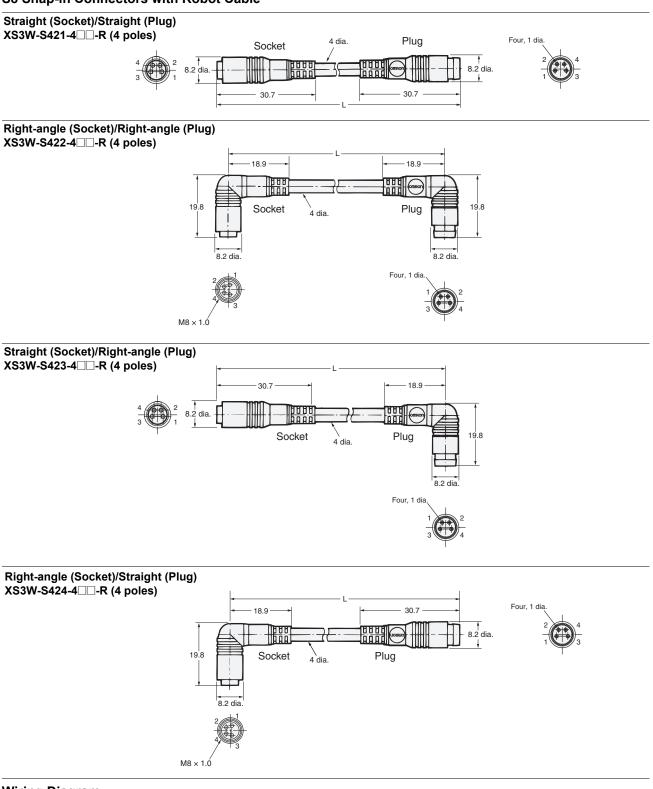


Wiring Diagram



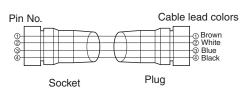
OMRON

S8 Snap-in Connectors with Robot Cable



Wiring Diagram

4 Cores

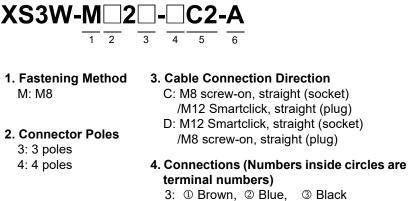


XS3W Connectors with Cables, Connectors on Both Cable Ends (M8 Socket/M12 Plug or M8 Plug/M12 Socket)

Model Number Structure

Model Number Legend

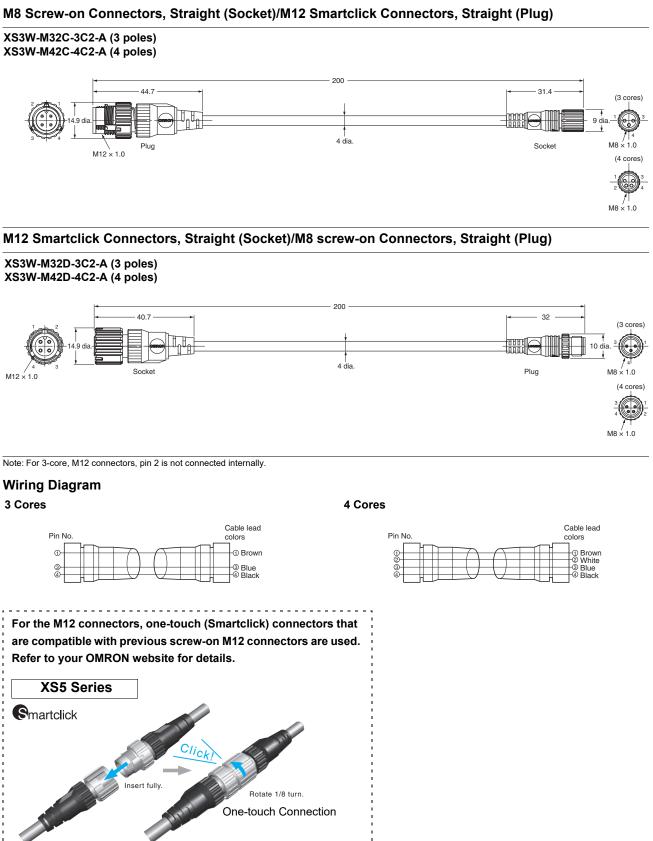
Use this model number legend to identify products from their model number. Use this model number legend to identify products from their model number. When ordering, use a model number from the table in *Ordering Information*.



- 4: 1) Brown, 2) White, 3) Blue, 4) Black
- 5. Cable Length C2: 20 cm
- 6. Cable Specifications A: Standard cable

Ordering Information

Cable specifications	No. of cable cores	Cable connection direction	Cable length L (m)	Model	UL
Standard cable	3	M8 screw-on, straight (Socket)/ M12 Smartclick, straight (Plug)	0.0	XS3W-M32C-3C2-A	
		M12 Smartclick, straight (Socket)/ M8 screw-on, straight (Plug)		XS3W-M32D-3C2-A	
	4	M8 screw-on, straight (Socket)/ M12 Smartclick, straight (Plug)	- 0.2	XS3W-M42C-4C2-A	
	4	M12 Smartclick, straight (Socket)/ M8 screw-on, straight (Plug)		XS3W-M42D-4C2-A	

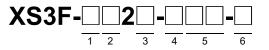


XS3F Connectors with Cables, Sockets on One Cable End

Model Number Structure

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. Fastening Method M: M8 S: S8 E: M8 SUS316L Lock	 Cable Connection Direction Straight Right-angle Connections (Numbers inside circles are terminal numbers) 	5. Cable Length 01: 1 m 02: 2 m 05: 5 m 10: 10 m
2. Connector Poles 3: 3 poles 4: 4 poles 5: 5 poles	 3: ① Brown, ② Blue, ③ Black 4: ① Brown, ② White, ③ Blue, ④ Black 5: ① Brown, ② White, ③ Blue, ④ Black, ⑤ Gray 	6. Cable Specifications A: Standard cable L: PUR cable (low-temperature use) R: Robot cable PR: Oil-resistant polyurethane robot cable

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Ordering Information

M8 Screw-on Connectors

Cable specifications	No. of cable cores	Cable connection direction	Cable length L (m)	Model	UL
		Stroight	2	XS3F-M321-302-A	
Standard cable		Straight	5	XS3F-M321-305-A	
Standard Cable		Dight angle	2	XS3F-M322-302-A	
		Right-angle	5	XS3F-M322-305-A	
			1	XS3F-M321-301-R	
	3		2	XS3F-M321-302-R	_
		Straight	5	XS3F-M321-305-R	UL2238
Robot cable			10	XS3F-M321-310-R	certified
			2	XS3F-M322-302-R	 (File no. E207683)
		Right-angle	5	XS3F-M322-305-R	L207003)
		0 0	10	XS3F-M322-310-R	
			2	XS3F-M421-402-A	
		Straight	5	XS3F-M421-405-A	
		5	10	XS3F-M421-410-A	
Standard cable			2	XS3F-M422-402-A	-
		Right-angle	5	XS3F-M422-405-A	-
			10	XS3F-M422-410-A	
Standard SUS316L cable lock	-	Straight	2	XS3F-E421-402-A	_
			5	XS3F-E421-405-A	
		Right-angle	2	XS3F-E422-402-A	
			5	XS3F-E422-405-A	
			1	XS3F-M421-401-R	UL2238
		Straight	2	XS3F-M421-402-R	
			5	XS3F-M421-402-R	
			10	XS3F-M421-405-R	
Robot cable			1	XS3F-M422-401-R	certified
	4	Right-angle	2	XS3F-M422-401-R	(File no. E207683)
			5	XS3F-M422-405-R	
			10	XS3F-M422-410-R	
			2	XS3F-M421-402-PR	
		Straight	5	XS3F-M421-405-PR	
Dil-resistant polyurethane			10	XS3F-M421-410-PR	
obot cable			1	XS3F-M422-401-PR	
		Right-angle	2	XS3F-M422-402-PR	_
			5	XS3F-M422-405-PR	_
			10	XS3F-M422-410-PR	
		Straight	2	XS3F-M421-402-L	
PUR cable			5	XS3F-M421-405-L	
low-temperature use)		Right-angle	2	XS3F-M422-402-L	
			5	XS3F-M422-405-L	
			2	XS3F-M521-502-A	
		Straight	5	XS3F-M521-505-A	
Standard cable	F		10	XS3F-M521-510-A	
	5		2	XS3F-M522-502-A	
	Right-angle	Right-angle	5	XS3F-M522-505-A	7
			10	XS3F-M522-510-A	

S8 Snap-in Connectors

Cable specifications	No. of cable cores	Cable connection direction	Cable length L (m)	Model	UL
Robot cable		Straight	1	XS3F-S421-401-R	UL
			2	XS3F-S421-402-R	
	4		5	XS3F-S421-405-R	
	4		1	XS3F-S422-401-R	
		Right-angle	2	XS3F-S422-402-R	
			5	XS3F-S422-405-R	

Note: Ask your OMRON representative about other cable lengths.

Connections

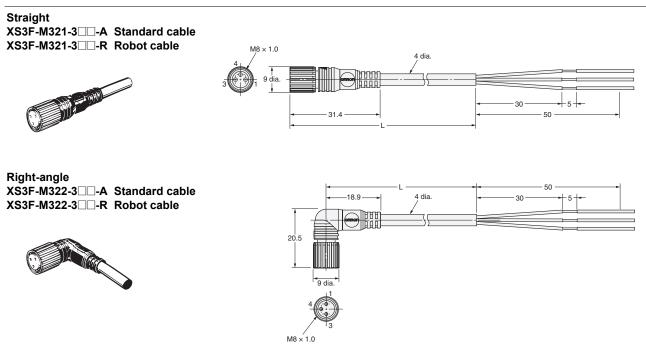
Model	Mating Connectors
XS3F (M8)	XS3M (M8/S8), XS3H (M8), XS3W (M8)
XS3F (S8)	XS3M (M8/S8), XS3H (S8), XS3W (S8)
Note 1. M8 screw	models and S8 snap-in models cannot be connected to each o

2. Only plugs and sockets with the same poles can be connected to each other.

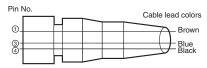
Dimensions

(Unit: mm)

M8 Screw-on Connectors (3 poles)



Wiring Diagram

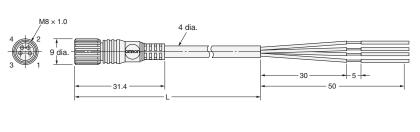


M8 Screw-on Connectors (4 poles)

Straight

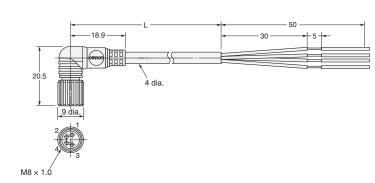
XS3F-M421-4 - A Standard cable XS3F-M421-4 - R Robot cable





Right-angle XS3F-M422-4 - A Standard cable XS3F-M422-4 - R Robot cable





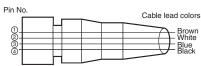
M8 SUS316L Lock (4 poles)

Straight XS3F-E421-402-A Standard cable XS3F-E421-405-A Standard cable 2.15 M8 × 1.0 -12.9-4 dia 1000 4 |||||| 1.95 0.5 30 - 5 --21.5 - 31.4 - 50 **Right-angle** XS3F-E422-402-A Standard cable 50 23.1 +5+ XS3F-E422-405-A Standard cable 30 600 20.5 4 dia 2.15

0.5

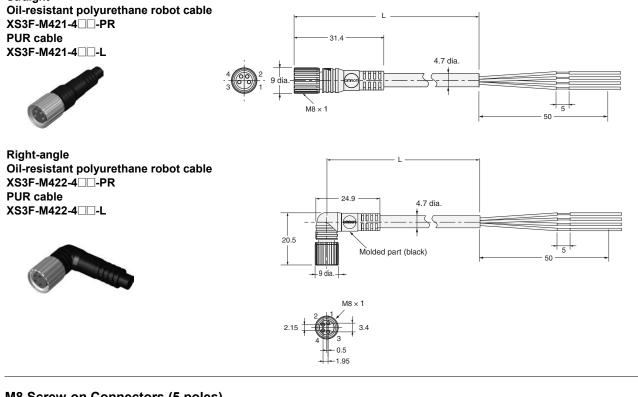
M8 × 1.0 - 1.95

Wiring Diagram



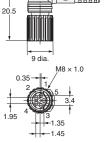
M8 Screw-on Connectors (4 poles)

Straight

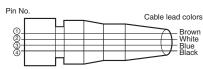


M8 Screw-on Connectors (5 poles)

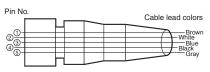
Straight XS3F-M521-5 - A Standard cable 1.95 M8 × 1.0 4.7 dia 9 0.35 -21.5 -5--30 31.4 50 **Right-angle** 24.9 XS3F-M522-5 - A Standard cable 4.7 dia 20.5 30 +5+ 50



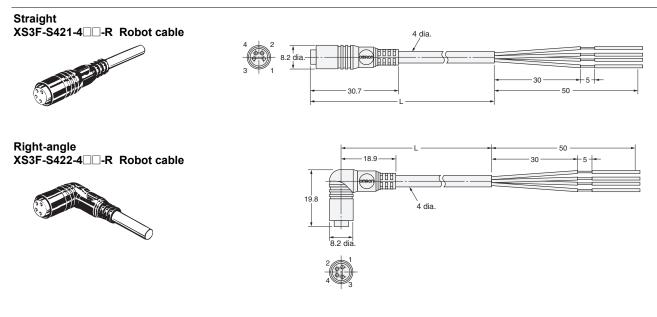
Wiring Diagram



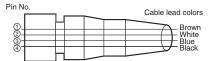




S8 Snap-in Connectors (4 poles)



Wiring Diagram

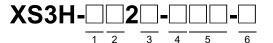


XS3H Plugs on One Cable End

Model Number Structure

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. Fastening Method	3. Cable Connection Direction	5. Cable Length
M: M8	1: Straight	C3: 0.3 m
S: S8	2: Right-angle	01: 1 m
2. Connector Poles 3: 3 poles	4. Connections (Numbers inside circles are terminal numbers)	02: 2 m 05: 5 m
4: 4 poles	3: ^① Brown, ^② Blue, ^③ Black	6. Cable Specifications
·	4: ① Brown, ② White, ③ Blue,	R: Robot cable
	④ Black	PR: Oil-resistant polyurethane robot cable

Ordering Information

M8 Screw-on Connectors

Cable specifications	No. of cable cores	Cable connection direction	Cable length L (m)	Model	UL		
	3		0.3	XS3H-M321-3C3-R			
	3	Straight	1	XS3H-M321-301-R	UL2238		
Robot cable		Straight	0.3	XS3H-M421-4C3-R	certified		
Robol cable	4		Straight	1	XS3H-M421-401-R	(File no.	
		4 Right-angle	4		0.3	XS3H-M422-4C3-R	E207683)
			Right-angle	1	XS3H-M422-401-R		
		Charinghat	2	XS3H-M421-402-PR			
			Straight	5	XS3H-M421-405-PR	-	
Oil-resistant polyurethane robot cable	4	4 Right-angle	1	XS3H-M422-401-PR			
			2	XS3H-M422-402-PR			
			5	XS3H-M422-405-PR			

Note: Ask your OMRON representative about other cable lengths.

S8 Snap-in Connectors

Cable specifications	No. of cable cores	Cable connection direction	Cable length L (m)	Model	UL
Robot cable		Straight	0.3	XS3H-S421-4C3-R	
	4		1	XS3H-S421-401-R	
	4	4 Right-angle	0.3	XS3H-S422-4C3-R	
			1	XS3H-S422-401-R	

Connections

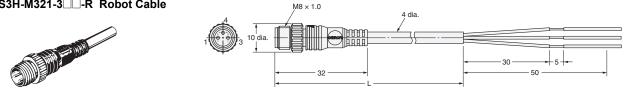
Model	Mating Connectors
XS3H (M8)	XS3F (M8), XS3W (M8), XS3P (M8)
XS3H (S8)	XS3F (S8), XS3W (S8), XS3P (S8)

Note 1. M8 screw models and S8 snap-in models cannot be connected to each other. 2. Only plugs and sockets with the same poles can be connected to each other.

Dimensions

M8 Screw-on Connectors (3 poles)

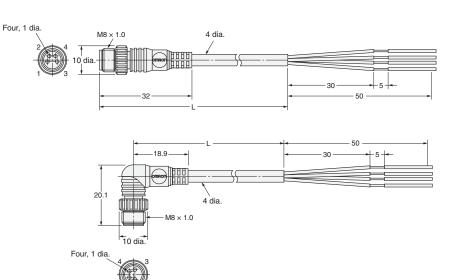
Straight XS3H-M321-3 -R Robot Cable



M8 Screw-on Connectors (4 poles)

Straight





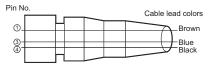
Right-angle

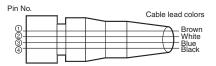




Wiring Diagram

3 Cores

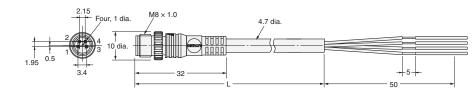




M8 Screw-on Connectors (4 poles)

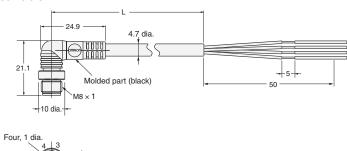
Straight





Right-angle

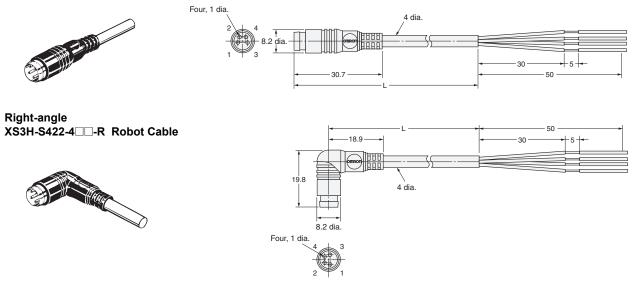




S8 Snap-in Connectors (4 poles)

Straight

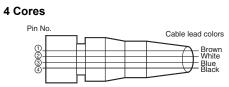
XS3H-S421-4 -R Robot Cable



2.15

0.5 1.95

Wiring Diagram



XS3P Panel-mounting Sockets for Terminal Boxes

Ordering Information

Connection method	Connector Poles	Panel mounting	Pin shape	Applicable wires	Model	UL
M8 screw-on	4	Front lock or rear lock	DIP pins	—	XS3P-M421-1	
			Solder cup pins	AWG24 max.	XS3P-M421-2	
		Rear lock	Solder cup pins	AWG24 max.	XS3P-M422-2	
S8 snap-in		Front look or room look	DIP pins	—	XS3P-S421-1	
		Front lock or rear lock	Solder cup pins	AWG24 max.	XS3P-S421-2	

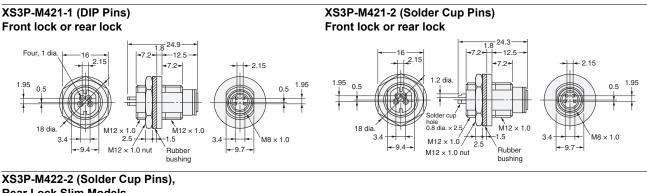
Connections

Model	Mating Connectors				
XS3P (M8)	XS3H (M8), XS3W (M8)				
XS3P (S8)	XS3H (S8), XS3W (S8)				
Note 1. M8 screw models and S8 snap-in models cannot be connected to each other. 2. Only plugs and sockets with the same poles can be connected to each other.					

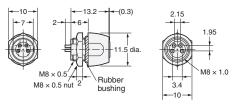
Dimensions

(Unit: mm)

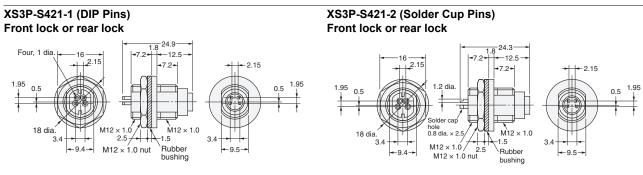
M8 Screw-on Connectors



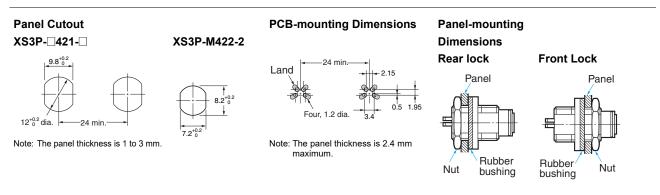
Rear Lock Slim Models



S8 Snap-in Connectors



Mounting Dimensions for XS3P Screw-on Models and Snap-in Models



Safety Precautions

Refer to Safety Precautions on page 26.

Precautions for Correct Use

Panel-Mounting

• When mounting XS3P Panel-mounting Connectors to panels, refer to Panel-mounting Dimensions and provide rubber bushings and nuts for the Connectors. Apply a tightening torque of between 0.4 and 0.6 N·m to mount the Connectors.

XS3M Sensor-Embedded Plugs

Ordering Information

Mounting method	Connector Poles	Pin shape	Applicable wires	Model	UL
Embedded model	Λ	DIP pins	—	XS3M-K421-1	
Empedded model	7	Solder cup pins	AWG26 max.	XS3M-K421-2	_

Connections

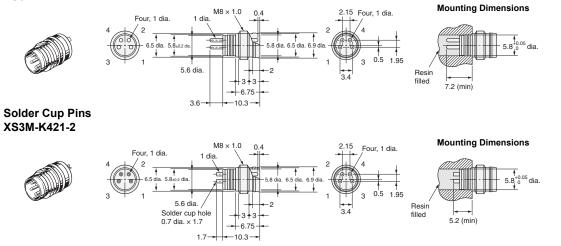
Model	Mating Connectors
XS3M	XS3F (M8/S8), XS3W (M8/S8)

Note 1. The plug can be connected to both M8 screw and S8 snap-in models.. 2. Only plugs and sockets with the same poles can be connected to each other.

Dimensions

Embedded Plug with Screw Threads

DIP Pins XS3M-K421-1



(Unit: mm)

Ordering Information

Mounting method	Connector Poles	Pin shape	Shield pin	Applicable wires	Model	UL
Front Lock 5	5	DIP pins 4.5 mm	No	AWG26 max.	XS3M-M524-10	
	o (for either round holes or solder cups)	Yes	AWG20 Max.	XS3M-M524-11		

Connections

Model	Mating Connectors
XS3M-M524-1	XS3F-M52□-5□□-A

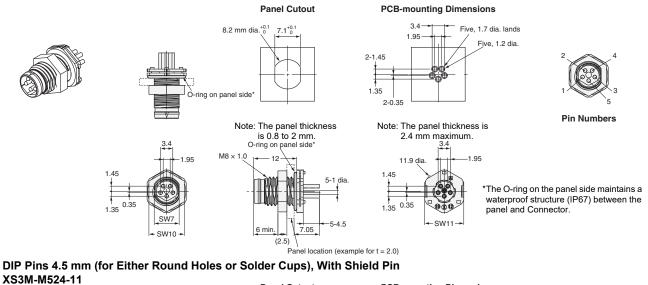
Note: Only plugs and sockets with the same poles can be connected to each other.

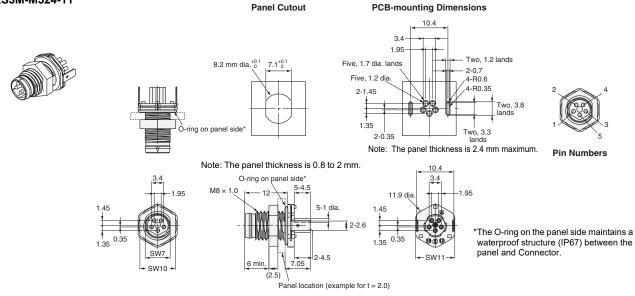
Dimensions

(Unit: mm)

Front lock (5 pins)

DIP Pins 4.5 mm (for Either Round Holes or Solder Cups), Without Shield Pin XS3M-M524-10



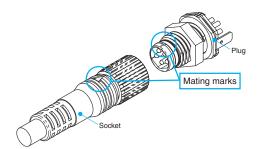


Refer to Safety Precautions on page 26.

Precautions for Correct Use

XS3M-M524-DD Connection

To mate the Connectors, align the mating marks on the Plug and Socket (see following figure), insert the Connectors completely, and tighten the lock nut, being careful not to damage the threads.



XS3M-M524- Panel Mounting

After you mount the Connector to the panel, attach the nut and tighten it to a suitable torque $(0.4 \text{ N} \cdot \text{m})$.

Ordering Information

For M8 Connectors

Cable	Connector	Cable length L (m)	Model	UL
		0.5	XS3R-M426-1C51-A	
	Connectors on	1	XS3R-M426-1011-A	
With cable	both cable ends	2	XS3R-M426-1021-A	
With Caple		3	XS3R-M426-1031-A	
	Connector on	2	XS3R-M426-1020-A	
	one cable end	5	XS3R-M426-1050-A	-
Robot cable	Connector on one cable end	5	XS3R-M426-1050-R	UL2238 certified (File no. E207683)
Oil-resistant polyurethane robot cable	Connector on one cable end	5	XS3R-M426-4050-PR *	
Without cable	Connectors on		XS3R-M426-1	
Without cable	both cable ends		XS3R-M426-5	

Connections

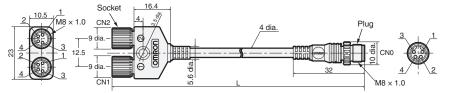
Mating Model Connectors XS3F (M8) XS3R XS3H (M8) (M8) XS3W (M8) XS3P (M8)

*XS3R-M426-4 0-PR is dedicated to wiring of 2-wire sensors.

Dimensions

M8 Screw-on Connectors

Connectors on Both Cable Ends (Y-Joint Plug/Socket) XS3R-M426-1 1-A With cable



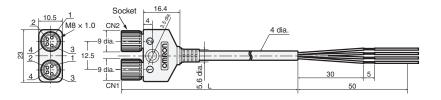


Wiring Diagram

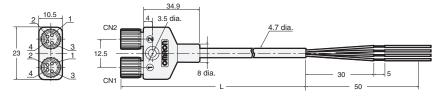
(Unit: mm)



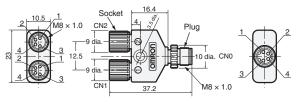
Connector on One Cable End (Y-Joint Plug/Socket) XS3R-M426-1 0-A With cable XS3R-M426-1 0-R Robot cable



Connector on One Cable End (Y-Joint Plug/Socket) XS3R-M426-4 0-PR Oil-resistant polyurethane robot cable



Connector on Both Ends (Y-Joint Plug/Socket) without Cable XS3R-M426-



Wiring Diagram

XS3R-M426-1



XS3R-M426-5

CN2 CNO CN1

```
Blue
White
```

Blue White

Wiring Diagram

Wiring Diagram

CN2

CN1

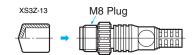
CN2

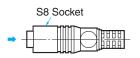
CN1

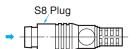
Common Accessories and Tools (Order Separately)

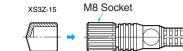
Ordering Information

Dust Covers XS3Z-13









XS3Z-15

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	Material	Suitable connector	
		Model	Mounting portion
XS3Z-13	PVC resin/red	XS3H/XS3W/XS3R	M8 plug
		XS3F/XS3W	S8 socket
		XS3H/XS3W	S8 plug
		XS3M	M8/S8 plug
XS3Z-15		XS3F/XS3W/XS3R	M8 socket

Precautions for Correct Use

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

Connections

- The XS3 and XS2 Sensor I/O Connectors cannot be connected to each other.
- You cannot mate Connectors that have a different number of poles.
- When using Sensors with Connectors or Limit Switches, use the Sensor I/O Connectors specified in the catalog.
- Do not connect M8 screw-on models and S8 snap-in models together, otherwise the proper degree of protection of the Connectors will not be maintained.

Connector Connection and Disconnection

- Before connecting or disconnecting Connectors, make sure that no power is being supplied to the Connectors.
- When connecting or disconnecting Connectors, be sure to hold the Connectors by hand. Do not disconnect the Connectors by pulling the cable.
- Do not touch the mating surface of the connectors with wet hands. If there is any water on the Connector or near the Connector, be sure to wipe off the water before connecting or disconnecting the Connector, otherwise the Connector may short-circuit internally or not ensure good insulation.
- Make sure that mating section of any Connector is free of metal dust or power.
- Do not use pliers to tighten mounting the thread bracket, otherwise the thread bracket may be damaged. Be sure to tighten each thread bracket by hand within a torque of 0.2 N·m. If the thread bracket is not tightened securely, the Connector may not maintain its proper degree of protection or the thread bracket may fall off due to vibration.
- When you tighten or loosen a thread bracket, hold onto only the thread bracket.

If you hold onto the cover or cable, excessive rotational force will be applied to the Connector and may damage it.

• Fully insert S8 snap-in models until the Connectors are hidden by the metal casing of the opposite parts, otherwise the Connectors will not maintain their proper degree of protection or the thread brackets may become loose due to vibration.

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).
- Connectors are not fully watertight. Do not use them underwater.
- The Connectors are not oil-resistant. Do not use them where they would be subject to oil.
- If Connectors are used in places with vibration or shock, secure the mating section of each Connector, otherwise the Connectors may be disconnected or fail to maintain their proper degree of protection.
- Connectors are of resin mold construction. Do not impose excessive force on them.

Storage

Do not store Connectors for long periods of time in the following locations

- · Locations subject to dust or high humidity
- Locations subject to ammonia gas or sulfide gas

Setup

- Do not make any cable bends near the base of the Unit.
- Any bends made must have a minimum radius of 36 mm.

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