OMRON

Round Water-resistant Connectors (M8/S8)

XS3

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.

Refer to Safety Precautions on page 26.



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

Model Number Legend

Connectors with Cables Model Number Legend

Connector	Cable specifications		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	- 3	
	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	_	
	Robot cable	1	XS3F-M421-401-R	_	
		2	XS3F-M421-402-R	10	
Connector on one cable end		5	XS3F-M421-405-R		
(Socket)		10	XS3F-M421-410-R	10	
		2	XS3F-M421-402-PR	-	
	Oil-resistant polyurethane robot cable	5	XS3F-M421-405-PR		
		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		1	XS3H-M421-401-R	16	
(Plug)	Oil-resistant polyurethane	2	XS3H-M421-402-PR	01	
	robot cable	5	XS3H-M421-405-PR	1	

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 mΩ max. (20 mV max.	., 100mA max.)		60 mΩ max. (20 mV max., 100 mA max.)
Insulation resistance	1,000 MΩ min. (at 500 VDC)			
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 М8				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	ig or SUS316L	g or SUS316L — Brass/nickel plating —			_
Contact blo	ck	PBT resin (UL94 V-0)					
O-ring		Rubber					
Cover		Soft PBT resin *2	_	_	TPEE		_

*1. Except 5 poles *2. 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	4 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)

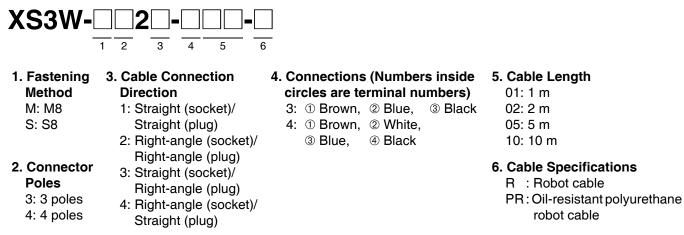
ltem	Poles	3 poles	4 poles	5 poles
DC	Male (plug) contacts			
20	Female (socket) contacts			$\begin{pmatrix} 4 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 1 \end{pmatrix}$

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	Straight (Saalest)/Straight (Dlug)	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	
		Straight (Saalest)/Straight (Dlug)	2	XS3W-M421-402-R	UL2238
Robot cable		Straight (Socket)/Straight (Plug)	5	XS3W-M421-405-R	certified
Robot cable			10	XS3W-M421-410-R	(File no.
	4	Dight angle (Seelect)/Dight angle (plug)	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	
O		Right-angle (Socket)/Right-angle (Plug)	2	XS3W-M422-402-PR	
Oil-resistant	4		5	XS3W-M422-405-PR	
polyurethane robot cable			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	1
			5	XS3W-M424-405-PR	

S8 Snap-in Connectors

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

Note: Ask your OMRON representative about other cable lengths.

Ratings and Specifications

Pin Arrangement (Engaged Side)

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

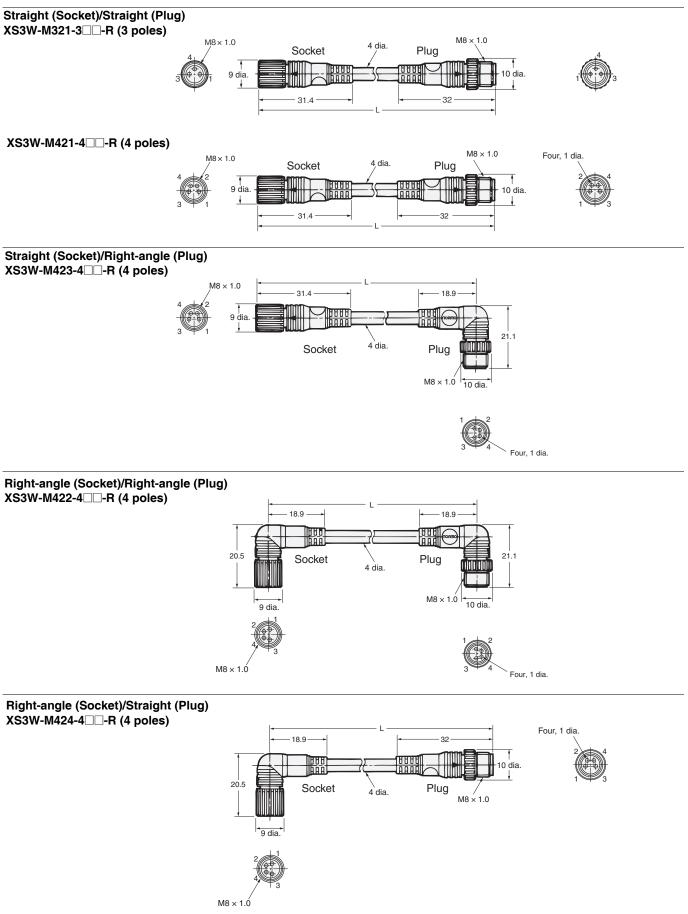
Connections

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)

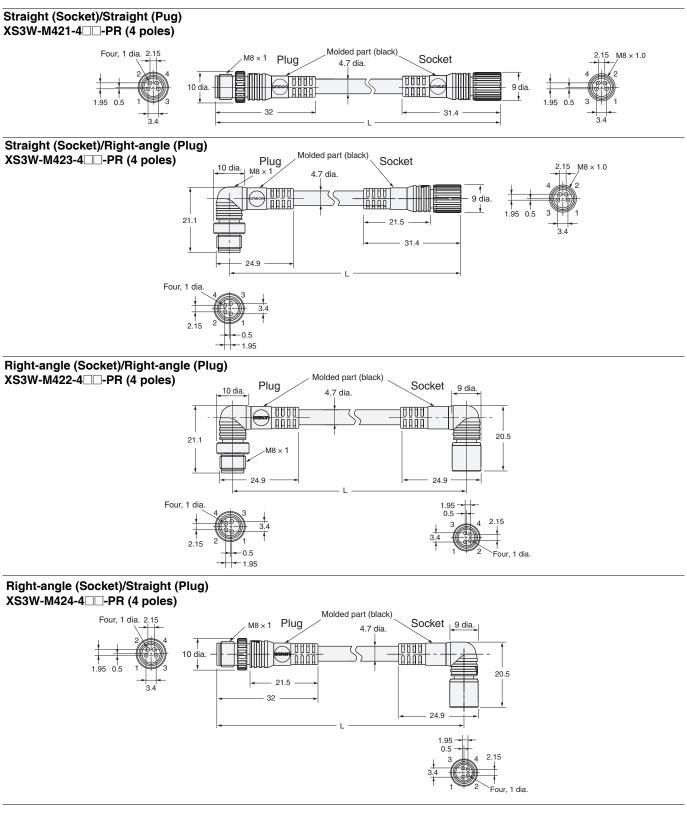
Note 1. Cables can be extended with more than one XS3W. 2. M8 screw models and S8 snap-in models cannot be connected to each other. 3. Only plugs and sockets with the same poles can be connected to each other.

Dimensions

M8 Screw-on Connectors with Robot Cable



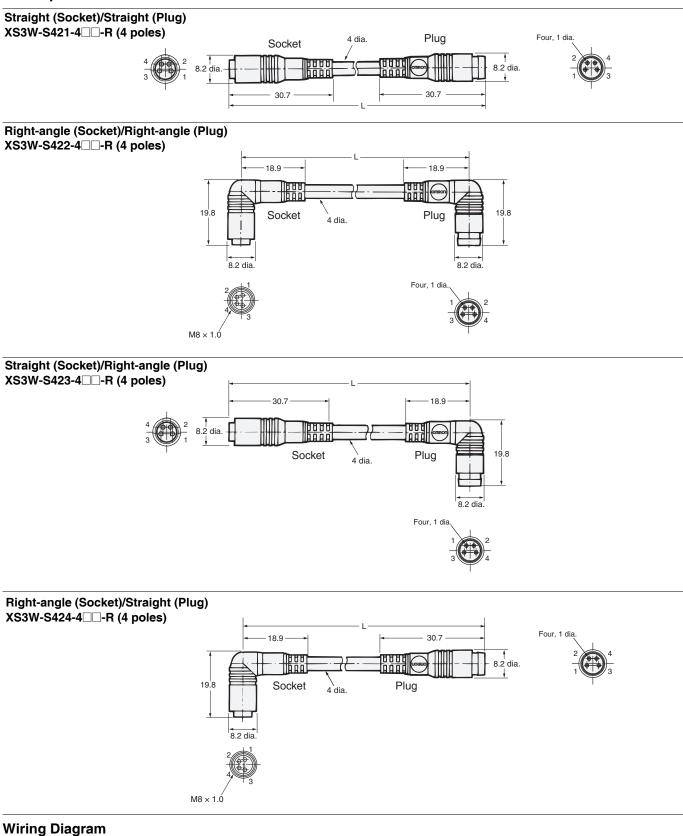
M8 Screw-on Connectors with Oil-resistant Polyurethane Robot Cable



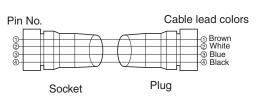
Wiring Diagram



S8 Snap-in Connectors with Robot Cable



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*.

XS3W-M_2_-_C2-A

12	3	4	5	6

1. Fastening Method M: M8

3. Cable Connection Direction

- C: M8 screw-on, straight (socket) /M12 Smartclick, straight (plug) D: M12 Smartclick, straight (socket) /M8 screw-on, straight (plug)
- 2. Connector Poles 3: 3 poles

4: 4 poles

- 4. Connections (Numbers inside circles are terminal numbers)
 3: ① Brown, ② Blue, ③ Black
 - 4: 1) Brown, 2) White, 3) Blue, 4) Black

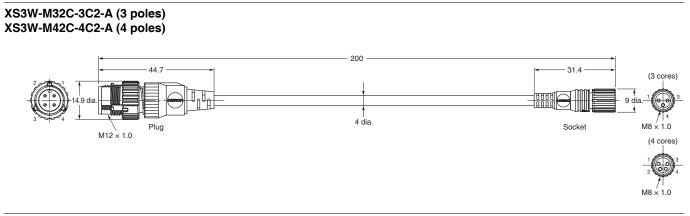
5. Cable Length C2: 20 cm

6. Cable Specifications A: Standard cable

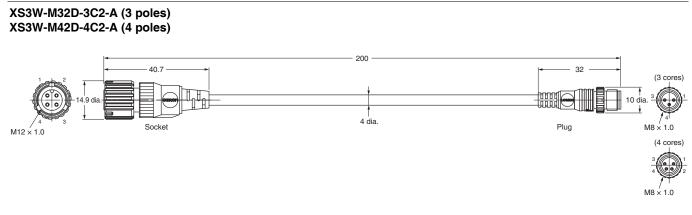
Ordering Information

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

M8 Screw-on Connectors, Straight (Socket)/M12 Smartclick Connectors, Straight (Plug)



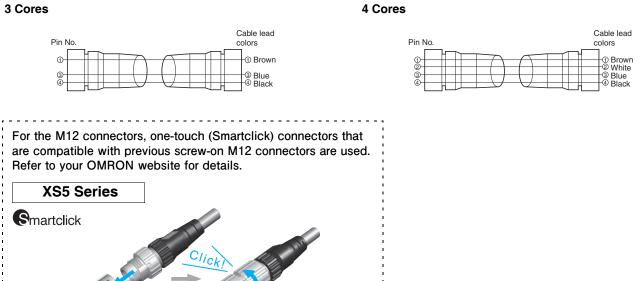
M12 Smartclick Connectors, Straight (Socket)/M8 screw-on Connectors, Straight (Plug)



Note: For 3-core, M12 connectors, pin 2 is not connected internally.

Insert fully.

Wiring Diagram



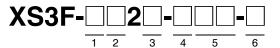
Rotate 1/8 turn. **One-touch Connection**

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

XS3

Ordering Information

M8 Screw-on Connectors

Cable specifications	No. of cable cores	Cable connection direction	Cable length L (m)	Model	UL
		Straight	2	XS3F-M321-302-A	
Standard cable		Straight	5	XS3F-M321-305-A	
Stanuaru Cable		Right-angle	2	XS3F-M322-302-A	
		night-angle	5	XS3F-M322-305-A	
			1	XS3F-M321-301-R	
	3	3 Straight	2	XS3F-M321-302-R	
			5	XS3F-M321-305-R	UL2238
Robot cable			10	XS3F-M321-310-R	 certified (File no.
			2	XS3F-M322-302-R	E207683)
		Right-angle	5	XS3F-M322-305-R	
			10	XS3F-M322-310-R	
			2	XS3F-M421-402-A	
		Straight	5	XS3F-M421-405-A	_
tandard cable		-	10	XS3F-M421-410-A	_
Standard cable			2	XS3F-M422-402-A	_
standard SUS316L cable		Right-angle	5	XS3F-M422-405-A	
		3 4 3 4	10	XS3F-M422-410-A	
	-	Straight -	2	XS3F-E421-402-A	
			5	XS3F-E421-405-A	
ock		Right-angle	2	XS3F-E422-402-A	_
			5	XS3F-E422-405-A	
	-		1	XS3F-M421-401-R	
	4	Straight	2	XS3F-M421-402-R	_
			5	XS3F-M421-405-R	UL2238 certified (File no. E207683)
			10	XS3F-M421-410-R	
Robot cable			1	XS3F-M422-401-R	
	4	Right-angle	2	XS3F-M422-402-R	
			5	XS3F-M422-402-T	
			10	XS3F-M422-410-R	
	_		2	XS3F-M422-410-R	
		Straight	5	XS3F-M421-402-PR	_
		Straight	10	XS3F-M421-403-PR	_
Oil-resistant polyurethane			10	XS3F-M421-410-PR	_
robot cable			2	XS3F-M422-401-PR	-
		Right-angle		XS3F-M422-402-PR	_
			5	XS3F-M422-405-PR	_
	-		10 2		_
		Straight		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	5		10	XS3F-M521-510-A	
			2	XS3F-M522-502-A	
		Right-angle	5	XS3F-M522-505-A	
			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	4	Straight 2 5	1	XS3F-S421-401-R	
			2	XS3F-S421-402-R	- -
			5	XS3F-S421-405-R	
		Right-angle	1	XS3F-S422-401-R	
			2	XS3F-S422-402-R	
			5	XS3F-S422-405-R	1

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

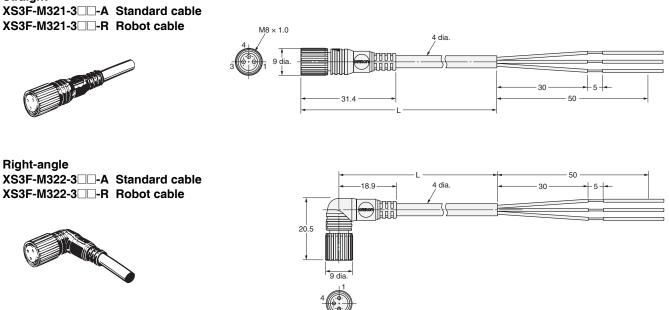
2. Only plugs and sockets with the same poles can be connected to each other.

Dimensions

(Unit: mm)

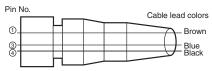
M8 Screw-on Connectors (3 poles)

Straight



M8 × 1.0

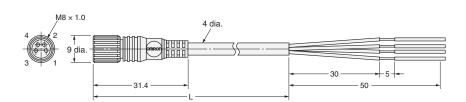
Wiring Diagram



M8 Screw-on Connectors (4 poles)

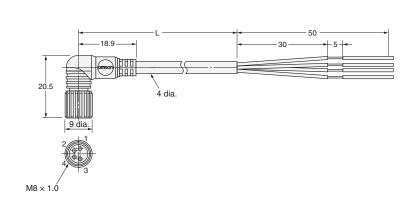
Straight XS3F-M421-4 - A Standard cable XS3F-M421-4 - R Robot cable





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

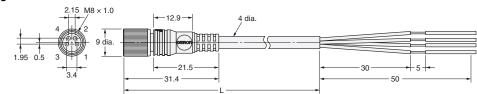




M8 SUS316L Lock (4 poles)

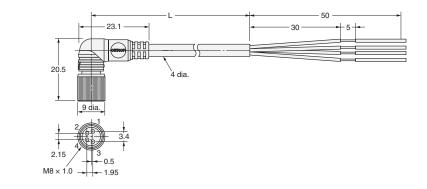
Straight

XS3F-E421-402-A Standard cable XS3F-E421-405-A Standard cable

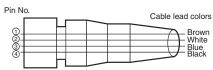


Right-angle XS3F-E422-402-A Standard cable XS3F-E422-405-A Standard cable

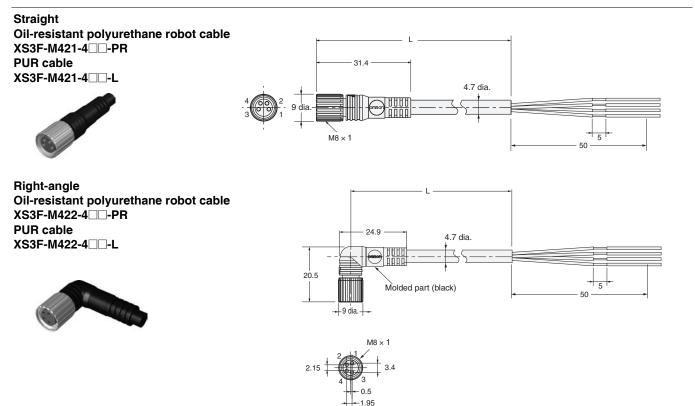




Wiring Diagram

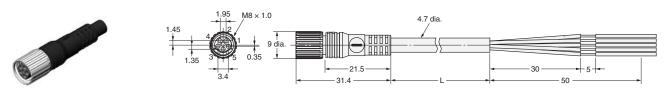


M8 Screw-on Connectors (4 poles)



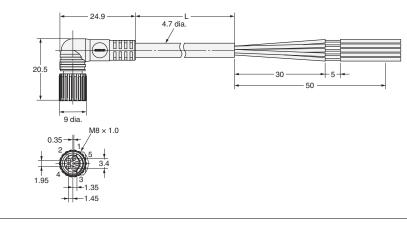
M8 Screw-on Connectors (5 poles)

Straight XS3F-M521-5 A Standard cable



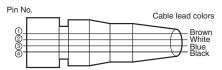
Right-angle XS3F-M522-5 - A Standard cable

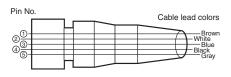




Wiring Diagram

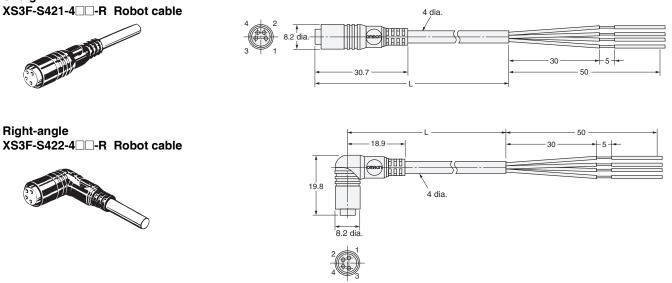
4 Cores



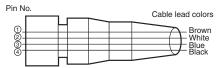


S8 Snap-in Connectors (4 poles)

Straight



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.

XS3H-		2					
	1	2	3	4	5	6	
1. Fastening	M	ethod	3	B. Ca	ble Co	onnection Directi	on
M: M8				1: 5	Straigh	t	
S: S8				2: F	Right-a	ingle	

2: Right-angle

- 2. Connector Poles 3: 3 poles
 - 4:4 poles
- circles are terminal numbers) 3: 1) Brown, 2) Blue, 3) Black 4: 1) Brown, 2) White, 3) Blue, ④ Black

4. Connections (Numbers inside

5. Cable Length C3: 0.3 m 01:1 m 02:2 m 05: 5 m

6. Cable Specifications R: Robot cable 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	
Robot cable	3	Straight	0.3	XS3H-M321-3C3-R		
	3	Straight	1	XS3H-M321-301-R	UL2238	
		Ctraight	0.3	XS3H-M421-4C3-R	certified	
	4	Straight	1	XS3H-M421-401-R	(File no. E207683)	
		Right-angle	0.3	XS3H-M422-4C3-R		
			1	XS3H-M422-401-R		
		Straight	2	XS3H-M421-402-PR		
			5	XS3H-M421-405-PR	-	
Oil-resistant polyurethane robot cable	4		1	XS3H-M422-401-PR		
		Right-angle	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
		Straight	0.3	XS3H-S421-4C3-R	
Robot cable	4	Straight	1	XS3H-S421-401-R	-
	4	Right-angle	0.3	XS3H-S422-4C3-R	
			1	XS3H-S422-401-R	

Connections

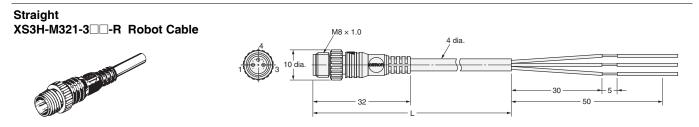
Model	Mating Connectors
XS3H (M8)	XS3F (M8), XS3W (M8), XS3P (M8)
XS3H (S8)	XS3F (S8), XS3W (S8), XS3P (S8)
Note 1 M8 screw m	odels and S8 snan-in models cannot be connected to each

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

Dimensions

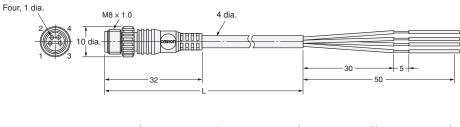
(Unit: mm)

M8 Screw-on Connectors (3 poles)



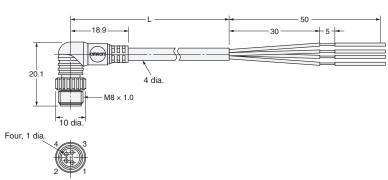
M8 Screw-on Connectors (4 poles)



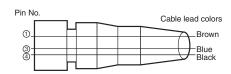


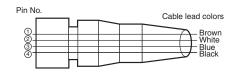






Wiring Diagram 3 Cores

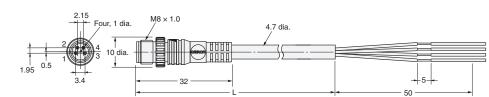




M8 Screw-on Connectors (4 poles)

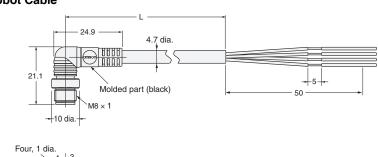
Straight





Right-angle

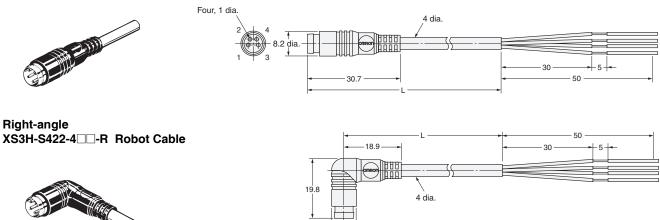


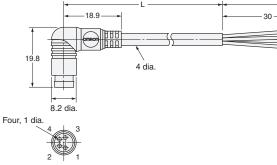




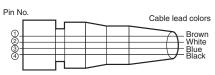
S8 Snap-in Connectors (4 poles)

Straight





Wiring Diagram



XS3P Panel-mounting Sockets for Terminal Boxes

Ordering Information

Connection method	Connector Poles	Panel mounting	Pin shape	Applicable wires	Model	UL	
		Front look or w	Front lock or rear lock	DIP pins	—	XS3P-M421-1	
M8 screw-on		FIGHT IOCK OF TEAT IOCK	Solder cup pins	AWG24 max.	XS3P-M421-2		
	4	Rear lock	Solder cup pins	AWG24 max.	XS3P-M422-2		
S9 onon in		an in	Front lock or rear lock	DIP pins	—	XS3P-S421-1	
S8 snap-in		From lock of rear lock	Solder cup pins	AWG24 max.	XS3P-S421-2		

Connections

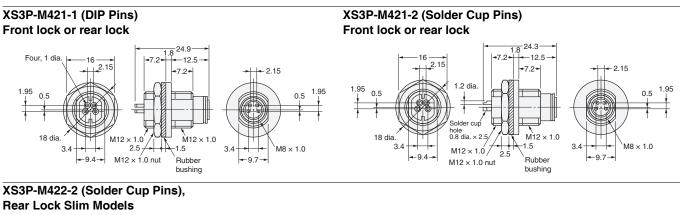
Model	Mating Connectors
XS3P (M8)	XS3H (M8), XS3W (M8)
XS3P (S8)	XS3H (S8), XS3W (S8)

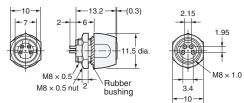
Note 1. M8 screw models and S8 snap-in models cannot be connected to each other. 2. Only plugs and sockets with the same poles can be connected to each other.

Dimensions

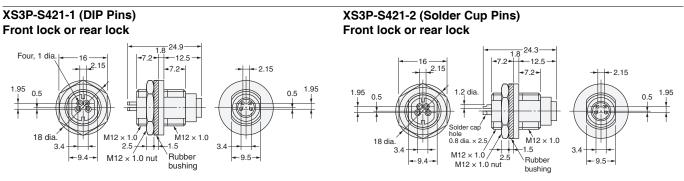
(Unit: mm)

M8 Screw-on Connectors

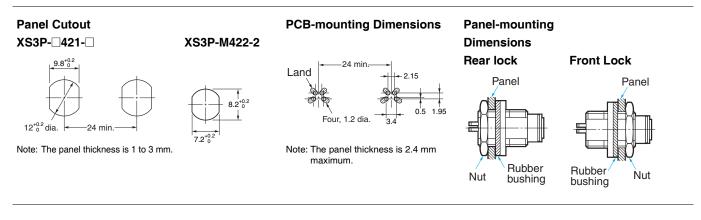




S8 Snap-in Connectors



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	
	.	Solder cup pins	AWG26 max.	XS3M-K421-2	

Connections

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

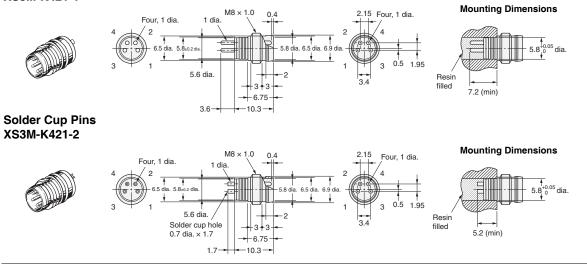
Note 1. The plug can be connected to both M8 screw and S8 snap-in models.. 2. Only plugs and sockets with the same poles can be connected to each other.

Dimensions

(Unit: mm)

Embedded Plug with Screw Threads

DIP Pins XS3M-K421-1



(Unit: mm)

XS3M Panel-mounting Plugs

Ordering Information

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

Connections

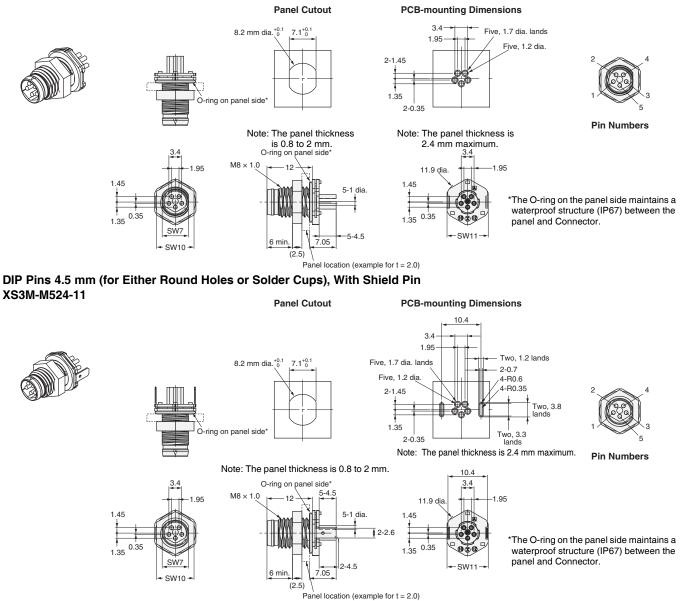
Model	Mating Connectors
XS3M-M524-1	XS3F-M52□-5□□-A

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

Dimensions

Front lock (5 pins)

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

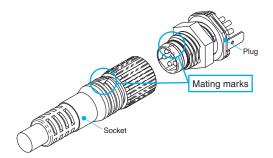


Refer to Safety Precautions on page 26.

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 $N{\cdot}m).$

XS3R Y-Joint Plug/Socket Connectors

Ordering Information

For M8 Connectors

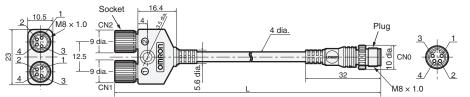
Cable	Connector	Cable length L (m)	Model	UL
With cable		0.5	XS3R-M426-1C51-A	
	Connectors on	1	XS3R-M426-1011-A	
	both cable ends	2	XS3R-M426-1021-A	
		3	XS3R-M426-1031-A	
	Connector on	2	XS3R-M426-1020-A	
	one cable end	5	XS3R-M426-1050-A	
Robot cable	Connector on one cable end	5	XS3R-M426-1050-R	UL2238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

*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

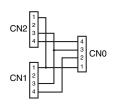


Connections

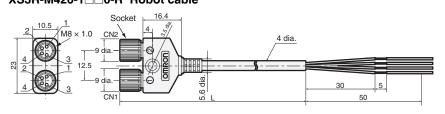
Model	Mating Connectors	
XS3R (M8)	XS3F (M8)	
	XS3H (M8)	
	XS3W (M8)	
	XS3P (M8)	

(Unit: mm)

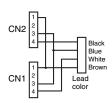
Wiring Diagram



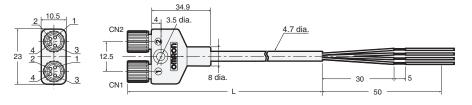
Connector on One Cable End (Y-Joint Plug/Socket) XS3R-M426-1 0-A With cable XS3R-M426-1 0-R Robot cable



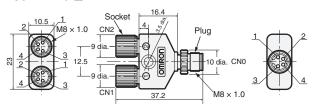
Wiring Diagram



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

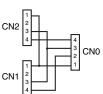


Connector on Both Ends (Y-Joint Plug/Socket) without Cable XS3R-M426-

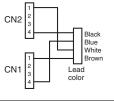


Wiring Diagram

XS3R-M426-1



Wiring Diagram





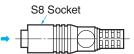
OMRON

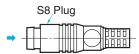
Common Accessories and Tools (Order Separately)

Ordering Information

Dust Covers XS3Z-13

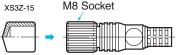








M8 Socket



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 Ma	Material	Suitable connector	
	Wateria	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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