CSM_XS3_DS_E_7_6

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.
- Ideal for a wide variety of FA and OA applications.
- Connectors on both cable ends require no harness work.
- Some new M8 models with 3 or 5 poles.
- Oil-resistant Polyurethane Robot Cables added.
- M8-M12 conversion cables are also available.



Refer to Safety Precautions on page 24.



Model Number Legend

Connectors with Cables Model Number Legend

Connector	Cable appoifications		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	
Connectors on both cable ends		5	XS3W-M421-405-R	
Connectors on both cable ends	Oili-tt (DLID)bt	1	XS3W-M421-401-PR	4
	Oil-resistant (PUR) robot cable	2	XS3W-M421-402-PR	
	Cable	5	XS3W-M421-405-PR	
		2	XS3F-M421-402-A	
	Standard cable	5	XS3F-M421-405-A	9
		10	XS3F-M421-410-A	
	Robot cable	1	XS3F-M421-401-R	
		2	XS3F-M421-402-R	
Connector on one cable end		5	XS3F-M421-405-R	
(Socket)		10	XS3F-M421-410-R	
	Oil-resistant (PUR) robot	2	XS3F-M421-402-PR	
	cable	5	XS3F-M421-405-PR	
	PUR (low-temperature use)	2	XS3F-M421-402-L	
	cable	5	XS3F-M421-405-L	
	Dobot coble	0.3	XS3H-M421-4C3-R	
Connector on one cable end	Robot cable	1	XS3H-M421-401-R	4.4
(Plug)	Oil-resistant (PUR) robot	2	XS3H-M421-402-PR	14
	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	40 mΩ max. (20 mV max.,	100m / may)		60 mΩ max.
(connector)	40 ms max. (20 mv max.,	Tooma max.)		(20 mV max., 100 mA max.)
Insulation	1,000 MΩ min. (at 500 VDC	2)		
resistance	1,000 Wisz IIIIII. (at 500 VDC))		
Dielectric strength	1,000 VAC for 1 min			1,000 VAC for 1 min
(connector)	(leakage current: 1 mA	650 VAC for 1 min (leakage current: 1 mA max.)	(leakage current: 1 mA	
(connector)	max.)			max.)
Degree of	IP67 (IEC60529)			
protection	11 07 (12000329)			
Insertion tolerance	200 times			
Cable tensile	49 N/15 s			
strength *1	4914/153			
Ambient operating	-25 to 70°C *3	-25 to 85°C		-25 to 70°C
temperature range	-23 10 70 0 3	-23 to 70 C		
Ambient humidity	20 to 85%RH			
range	20 10 03 /61 11 1			

^{*1.} Models with cable only

Materials and Finish

Connector

Туре		M8			S8	
Item Model	XS3F/H/W/R	XS3P/M *	XS3M-M524-1□	XS3F/W (Socket side)	XS3H/W (Plug side)	XS3P
Contact block	PBT resin (UL94 \	7-0) light gray or bla	ick			
Contacts	Phosphor bronze/nickel	Brass/nickel base,		Phosphor bronze/nickel	Brass/nickel base,	
Contacts	base, 0.4-µm gold plating	0.4-µm gold plating	g	base, 0.4-µm gold plating	0.4-μm gold plating	9
Fixture	Brass/nickel platin	g or SUS316L	_		Brass/nickel plating	_
Body		Brass/	Nickel-plated zinc			
Бойу	_	nickel plating	alloy		_	
Shell				-		TPEE
C-Ring	_		Phosphor bronze/			
O-rilling			tin plating			
Grounding fixture			Phosphor bronze/			
Grounding lixture		_	tin plating		_	
Nut	_	Brass/nickel platin	g	_	_	Brass/nickel plating
Cover	Soft PBT resin			TPEE		
COVEI	(UL94V-0)		_	IFEE		_
O-ring	Rubber					

*Except 5 poles 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 mm²)		4.7 mm dia, AWG24 (0.2 mm ²)
Statiual u Cable		Structure: 0.12 mm/18		Structure: 0.16 mm/11
Pohot Coblo		4 mm dia, AWG24 (0.2 mm²)		
Robot Cable		Structure: 0.08 mm/40		_
Oil-resistant polyur	ethane		4.7 mm dia, AWG22 (0.3 mm ²)	
robot cable		_	Structure: 0.08 mm/60	_

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

Pin Arrangement (Engaged Side)

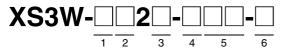
Item	Poles	3 poles	4 poles	5 poles
DC.	Male (plug) contacts	1 3 0 0	2 ₀ 0 ⁴ 10 03	20 04 10 03
DC	Female (socket) contacts	3 1 0 0	4 ₀ 0 ² 30 01	40 02 30 01

^{*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.

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

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*.



- 1. Fastening Method
 - M: M8 S: S8
- 2. Connector
 - Poles 3: 3 poles
 - 4: 4 poles
- 3. Cable Connection Direction
 - 1: Straight/Straight
 - 2: Right-angle/Right-angle
 - 3: Straight (socket)/ Right-angle (plug)
 - 4: Right-angle (socket)/ Straight (plug)
- 4. Connections
 - Pin No.
 - 3: Brown Blue Black
 - Pin No.

 (1) ② ③
 - 4: Brown White Blue Black

(4)

- 5. Cable Length
 - 01: 1 m 02: 2 m
- 05: 5 m
- 6. Cable SpecificationsR: Vibration-proof robot cablePR: Oil-resistant polyurethane robot cable

Ordering Information

M8 Screw-on Connectors

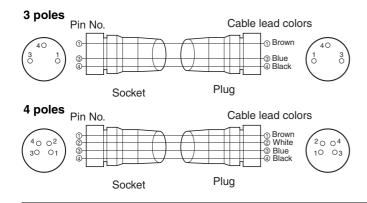
Cable specifications	No. of cable cores	Cable connection direction	Cable length L (m)	Model
			1	XS3W-M321-301-R
	3	Straight/Straight	2	XS3W-M321-302-R
			5	XS3W-M321-305-R
			1	XS3W-M421-401-R
		Straight/Straight	2	XS3W-M421-402-R
Vibration-proof robot			5	XS3W-M421-405-R
cable		Right-angle/Right-angle	2	XS3W-M422-402-R
	4	night-angle/night-angle	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/Straight	1	XS3W-M421-401-PR
			2	XS3W-M421-402-PR
			5	XS3W-M421-405-PR
			1	XS3W-M422-401-PR
		Right-angle/Right-angle	2	XS3W-M422-402-PR
Oil-resistant	4		5	XS3W-M422-405-PR
polyurethane robot cable	4		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

S8 Snap-in Connectors

Cable specifications	No. of cable cores	Cable connection direction	Cable length L (m)	Model	
			1	XS3W-S421-401-R	
		Straight/Straight	2	XS3W-S421-402-R	
			5	XS3W-S421-405-R	
Vilouation musefuels at			Dight angle/Dight angle	2	XS3W-S422-402-R
Vibration-proof robot cable	4	Right-angle/Right-angle	5	XS3W-S422-405-R	
cabic	zaule	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	
		hight-angle (Socket)/Straight (plug)	5	XS3W-S424-405-R	

Note: Ask your OMRON representative about other cable lengths.

Wiring Diagram/Engaged Side



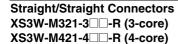
Mating Connectors

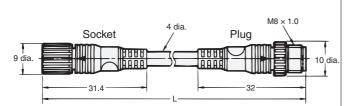
Model	Socket side	Plug side
XS3W (M8)	XS3M (M8/S8) XS3H (M8)	XS3F (M8) XS3W (M8) XS3P (M8)
XS3W (S8)	XS3M (M8/S8) XS3H (S8)	XS3F (S8) XS3W (S8) XS3P (S8)

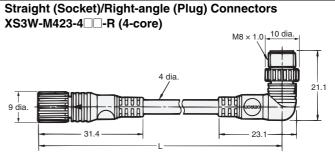
Note 1. Cables can be extended with more than one XS3W.
2. M8 screw models and S8 snap-in models cannot be connected to each other.

Dimensions (Unit: mm)

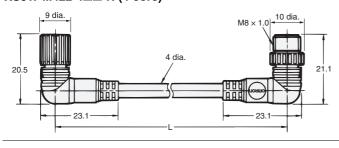
M8 Screw-on Connectors with Vibration-proof Robot Cable



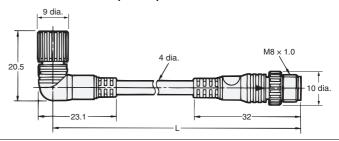




Right-angle/Right-angle Connectors XS3W-M422-4□□-R (4-core)

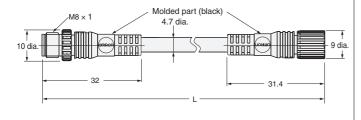




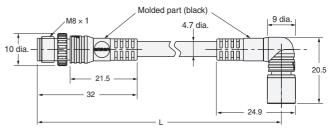


M8 Screw-on Connectors with Oil-resistant Polyurethane Robot Cable

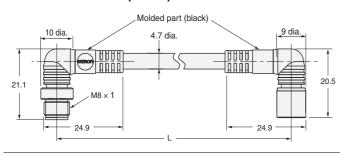
Straight/Straight Connectors XS3W-M421-4□□-PR (4-core)



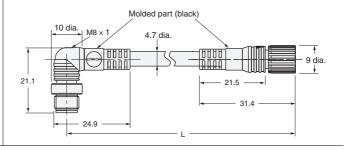
Straight (Socket)/Right-angle (Plug) Connectors XS3W-M423-4□□-PR (4-core)



Right-angle/Right-angle Connectors XS3W-M422-4□□-PR (4-core)

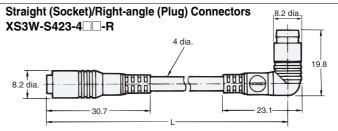


Right-angle (Socket)/Straight (Plug) Connectors XS3W-M424-4□□-PR (4-core)

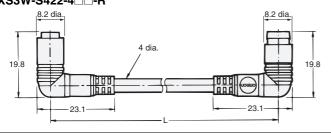


S8 4 pin Snap-in Connectors with Vibration-proof Robot Cable

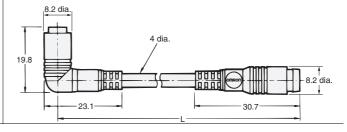
Straight/Straight Connectors XS3W-S421-4□□-R Socket 4 dia. Plug 8.2 dia. 30.7 30.7



Right-angle/Right-angle Connectors XS3W-S422-4□□-R



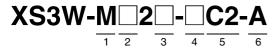




XS3W Connectors with Cables, Connectors on Both Cable Ends (M8 Socket/M12 Plug or M8 Plug/M12 Socket)

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*.



- 1. Fastening Method
 - M: M8
- C: M8 (screw-on) socket: plug: Straight
- 2. Connector **Poles**
 - 3: 3 poles 4: 4 poles
- 3. Cable Connection **Direction**
 - Straight, M12 (Smartclick)
 - D: M8 (screw-on) plug: Straight, M12 (Smartclick) socket: Straight
- 4. Connections
 - Pin No. 1 (4)
 - 3: Brown Blue Black Pin No. (1) (3)
- 4: Brown White Blue Black

(4**)**

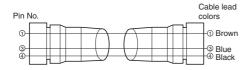
- 5. Cable Length
 - C2: 20 cm
- 6. Cable Specifications
 - A: Standard cable

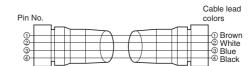
Ordering Information

Cable specifications	No. of cable cores	Connectors	Cable length L (m)	Model
	3	M8 socket/M12 plug		XS3W-M32C-3C2-A
Standard cable		M8 plug/M12 socket	0.2	XS3W-M32D-3C2-A
Stariuaru Cable	4	M8 socket/M12 plug		XS3W-M42C-4C2-A
		M8 plug/M12 socket		XS3W-M42D-4C2-A

Wiring Diagram

3 poles 4 poles

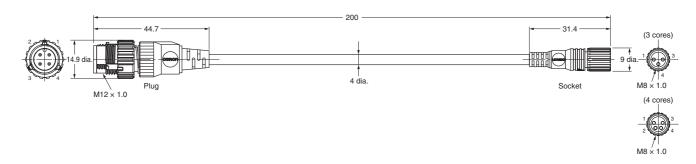




Dimensions (Unit: mm)

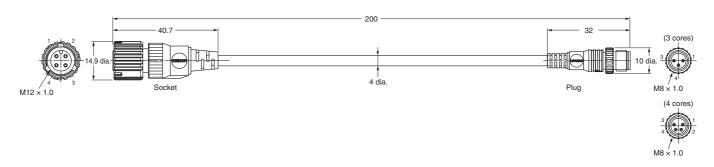
Screw-on Connectors (M8 to M12)

XS3W-M32C-3C2-A XS3W-M42C-4C2-A

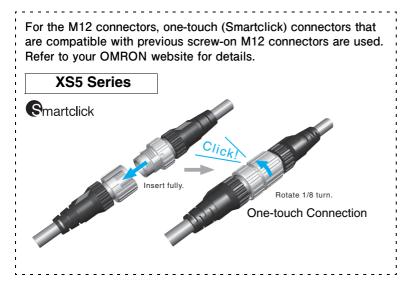


Smartclick Connectors (M8-M12)

XS3W-M32D-3C2-A XS3W-M42D-4C2-A



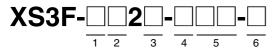
Note: For 3-core, M12 connectors, pin 2 is not connected internally.



XS3F Connectors with Cables, Sockets on One Cable End

Model Number Legend

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



1. Fastening Method

M: M8

S: S8

E: M8

SUS316L Lock

2. Connector Poles

3: 3 poles

4: 4 poles

5: 5 poles

3. Cable Connection Direction

1: Straight

2: Right-angle

4. Connections

Pin No.

3 4

3: Brown Blue Black

Pin No.

1 2 3 4

4: Brown White Blue Black

Pin No.

111 INO.

5: Brown White Blue Black Gray

5. Cable Length

01: 1 m

02: 2 m

05: 5 m

10: 10 m

6. Cable Specifications

A: Standard cable

L: PUR cable (low-temperature use)

R: Vibration-proof 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
		Straight	2	XS3F-M321-302-A
Standard cable		Straight	5	XS3F-M321-305-A
Standard Cable		Right-angle	2	XS3F-M322-302-A
		night-angle	5	XS3F-M322-305-A
			1	XS3F-M321-301-R
	3	Straight	2	XS3F-M321-302-R
Vibration-proof robot cable		Straight	5	XS3F-M321-305-R
Vibration-proof robot cable			10	XS3F-M321-310-R
		Right-angle	2	XS3F-M322-302-R
		riigiit-arigie	5	XS3F-M322-305-R
			2	XS3F-M421-402-A
		Straight	5	XS3F-M421-405-A
Standard cable			10	XS3F-M421-410-A
Statidatu Cable			2	XS3F-M422-402-A
		Right-angle	5	XS3F-M422-405-A
			10	XS3F-M422-410-A
	Straight	2	XS3F-E421-402-A	
Standard SUS316L cable		Straight	5	XS3F-E421-405-A
lock		Right-angle	2	XS3F-E422-402-A
			5	XS3F-E422-405-A
		Straight 4	1	XS3F-M421-401-R
			2	XS3F-M421-402-R
			5	XS3F-M421-405-R
Vibration-proof robot cable	4		10	XS3F-M421-410-R
Vibration-proof robot cable		Right-angle	1	XS3F-M422-401-R
			2	XS3F-M422-402-R
			5	XS3F-M422-405-R
			10	XS3F-M422-410-R
		Straight	2	XS3F-M421-402-PR
Oil registent nels westbone		Straight	5	XS3F-M421-405-PR
Oil-resistant polyurethane robot cable			1	XS3F-M422-401-PR
Tobot dable		Right-angle	2	XS3F-M422-402-PR
			5	XS3F-M422-405-PR
		Straight	2	XS3F-M421-402-L
PUR cable			5	XS3F-M421-405-L
(low-temperature use)	-temperature use)	Right-angle	2	XS3F-M422-402-L
		i ligiti-aligie	5	XS3F-M422-405-L
			2	XS3F-M521-502-A
		Straight	5	XS3F-M521-505-A
Standard cable	5		10	XS3F-M521-510-A
Gianuaru Cabie	3		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
Vibration-proof robot cable		Straight	1	XS3F-S421-401-R
	4		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

Note: Ask your OMRON representative about other cable lengths.

Mating Connectors

Model	Mating Connectors
XS3F (M8)	XS3M (M8/S8), XS3H (M8), XS3W (M8)
XS3F (S8)	XS3M (M8/S8), XS3H (S8), XS3W (S8)

Note: M8 screw models and S8 snap-in models cannot be connected to each other.

Dimensions (Unit: mm)

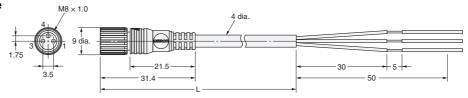
M8 Screw-on Connectors (3-core)

Straight Connectors

XS3F-M321-3□□-A Vibration-proof robot cable

XS3F-M321-3□□-R Standard cable



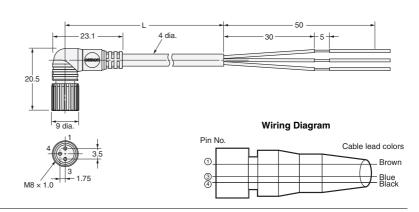


Right-angle Connectors

XS3F-M322-3□□-A Vibration-proof robot cable

XS3F-M322-3 -R Standard cable





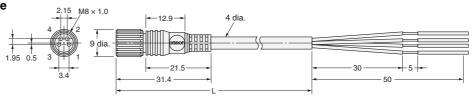
M8 Screw-on Connectors (4-core)

Straight Connectors

XS3F-M421-4□□-A Vibration-proof robot cable

XS3F-M421-4□□-R Standard cable



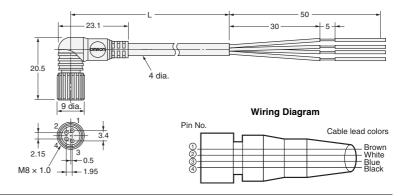


Right-angle Connectors

XS3F-M422-4□□-A Vibration-proof robot cable

XS3F-M422-4 R Standard cable

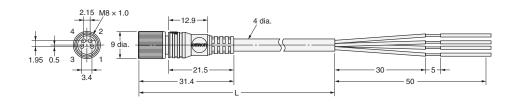




M8 SUS316L Lock (4-core)

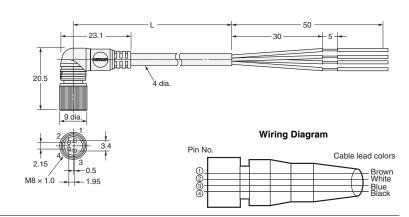
Straight Connectors XS3F-E421-402-A XS3F-E421-405-A





Right-angle Connectors XS3F-E422-402-A XS3F-E422-405-A



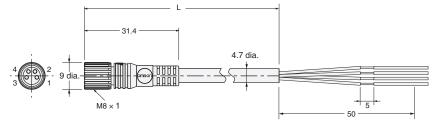


M8 Screw-on Connectors (4-core)

Straight Connectors
Oil-resistant polyurethane robot cable
XS3F-M421-4□□-PR

PUR cable XS3F-M421-4□□-L



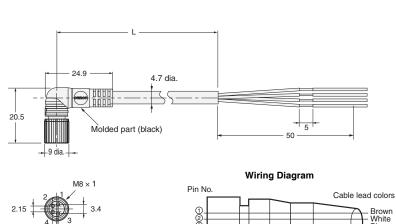


0.5 - 1.95

Right-angle Connectors
Oil-resistant polyurethane robot cable
XS3F-M422-4□□-PR
PUR cable

XS3F-M422-4□□-L

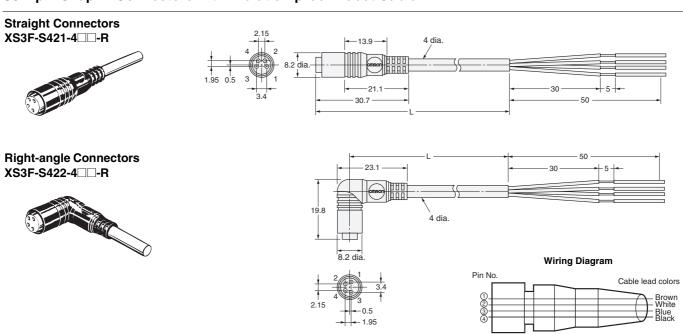




M8 Screw-on Connectors (5-core) Oil-resistant Standard Cable

Straight Connectors XS3F-M521-5 -A Right-angle Connectors XS3F-M522-5 -A Wiring Diagram Pin No. Cable lead colors Cabl

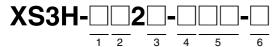
S8 4 pin Snap-in Connectors with Vibration-proof Robot Cable



XS3H Plugs on One Cable End

Model Number Legend

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



1. Fastening Method

M: M8 S: S8

2. Connector Poles

3: 3 poles 4: 4 poles 3. Cable Connection Direction

Straight
 Right-angle

4. Connections

Pin No.

3: Brown Blue Black Pin No.

'in No. ① ②

4: Brown White Blue Black

(3)

5. Cable Length

C3: 0.3 m 01: 1 m 02: 2 m 05: 5 m

6. Cable Specifications

R: Vibration-proof 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
	3	Straight	0.3	XS3H-M321-3C3-R
	3	Straight	1	XS3H-M321-301-R
Vibration-proof robot cable		Straight	0.3	XS3H-M421-4C3-R
Vibration-proof robot cable	4	Straight	1	XS3H-M421-401-R
	4	Right-angle	0.3	XS3H-M422-4C3-R
			1	XS3H-M422-401-R
	4	Straight	2	XS3H-M421-402-PR
Oil-resistant polyurethane robot cable			5	XS3H-M421-405-PR
		Right-angle	1	XS3H-M422-401-PR
			2	XS3H-M422-402-PR
			5	XS3H-M422-405-PR

(4)

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
Vibration-proof robot cable	4	Straight	0.3	XS3H-S421-4C3-R
			1	XS3H-S421-401-R
		Right-angle	0.3	XS3H-S422-4C3-R
			1	XS3H-S422-401-R

Mating Connectors

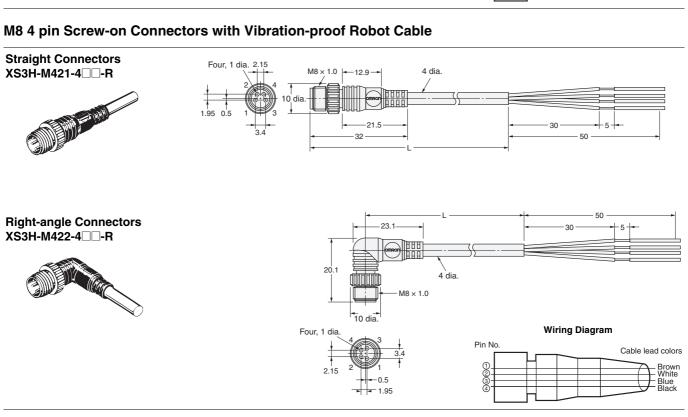
Model	Mating Connectors	
XS3H (M8)	XS3F (M8), XS3W (M8), XS3P (M8)	
XS3H (S8)	XS3F (S8), XS3W (S8), XS3P (S8)	

Note: M8 screw models and S8 snap-in models cannot be connected to each other.

Dimensions (Unit: mm)

M8 3 pin Screw-on Connectors with Vibration-proof Robot Cable

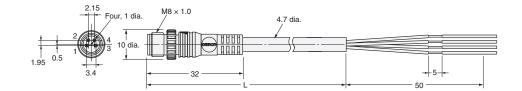
Straight Connectors XS3H-M321-3 -R Wiring Diagram Pin No. Cable lead colors Blue Black



M8 4 pin Screw-on Connectors with Oil-resistant Polyurethane Robot Cable

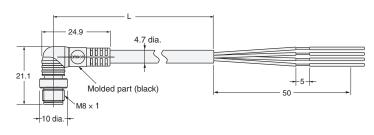
Straight Connectors XS3H-M421-4 -- PR

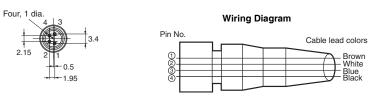




Right-angle Connectors XS3H-M422-4□□-PR



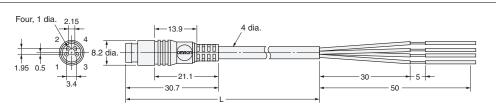




S8 4 pin Snap-in Connectors with Vibration-proof Robot Cable

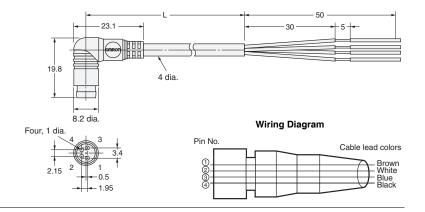
Straight Connectors XS3H-S421-4 -R





Right-angle Connectors XS3H-S422-4□□-R





XS3P Panel-mounting Sockets for Terminal Boxes

Ordering Information

Connection method	Panel mounting	Pin shape	Applicable wires	Model
M8 screw-on	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 lock or rear lock	DIP pins	_	XS3P-S421-1
	FIGHT JOCK OF TEAT JOCK	Solder cup pins	AWG24 max.	XS3P-S421-2

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

Mating Connectors

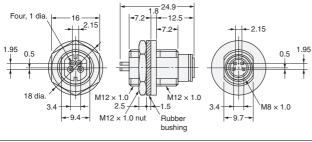
Model	Mating Connectors
XS3P (M8)	XS3H (M8), XS3W (M8)
XS3P (S8)	XS3H (S8), XS3W (S8)

Note: M8 screw models and S8 snap-in models cannot be connected to each other.

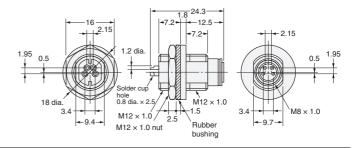
Dimensions (Unit: mm)

M8 Screw-on Connectors

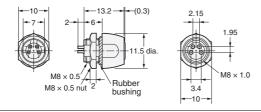
XS3P-M421-1 (DIP Pins) Front lock or rear lock



XS3P-M421-2 (Solder Cup Pins) Front lock or rear lock

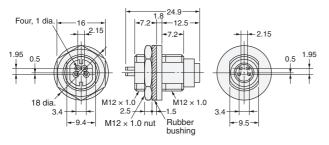


XS3P-M422-2 (Solder Cup Pins), Rear Lock Slim Models

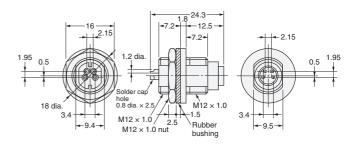


S8 Snap-in Connectors

XS3P-S421-1 (DIP Pins) Front lock or rear lock



XS3P-S421-2 (Solder Cup Pins) Front lock or rear lock

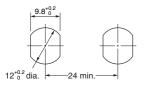


Mounting Dimensions for XS3P Screw-on Models and Snap-in Models

(Unit: mm)



XS3P-□421-□

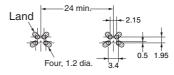


Note: The panel thickness is 1 to 3 mm.

XS3P-M422-2



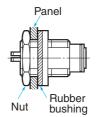
PCB-mounting Dimensions



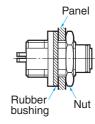
Note: The panel thickness is 2.4 mm maximum.

Panel-mounting Dimensions

Rear lock



Front Lock



Safety Precautions

Refer to Safety Precautions on page 24.

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	Pin shape	Applicable wires	Model
Embedded model	DIP pins	_	XS3M-K421-1
Linbeaded model	Solder cup pins	AWG26 max.	XS3M-K421-2

Mating Connectors

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

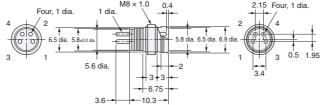
Note: The plug can be connected to both M8 screw and S8 snap-in models.

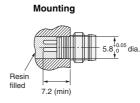
Dimensions (Unit: mm)

Embedded Plug with Screw Threads

DIP Pins XS3M-K421-1

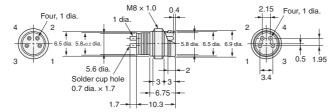


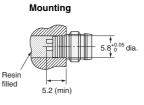




Solder Cup Pins XS3M-K421-2







XS3M Panel-mounting Plugs

Ordering Information

Mounting method	Pin shape	Shield pin	Applicable wires	Model
Front Lock	DIP pins 4.5 mm	No	AWG26 max.	XS3M-M524-10
FIOHL LOCK	(for either round holes or solder cups)	Yes	AVVG20 IIIax.	XS3M-M524-11

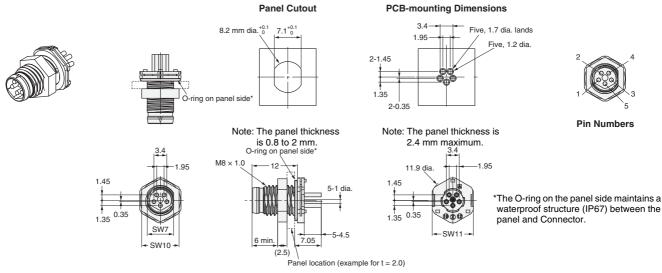
Mating Connectors

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

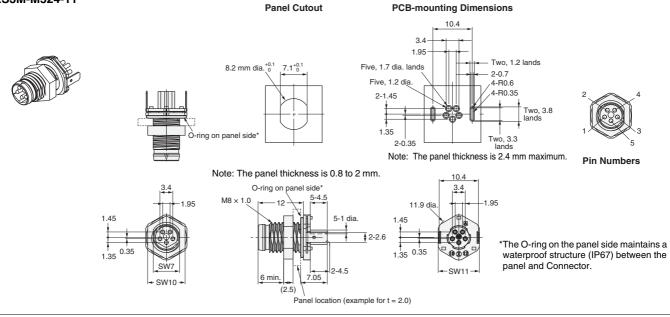
Dimensions (Unit: mm)

Front lock (5 pins)

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



DIP Pins 4.5 mm (for Either Round Holes or Solder Cups), With Shield Pin XS3M-M524-11



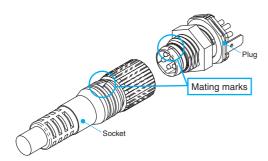
Safety Precautions

Refer to Safety Precautions on page 24.

Precautions for Correct Use

XS3M-M524-□□ 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
		0.5	XS3R-M426-1C51-A
	Connectors on both cable ends Connector on one cable end	1	XS3R-M426-1011-A
With cable		2	XS3R-M426-1021-A
		3	XS3R-M426-1031-A
		2	XS3R-M426-1020-A
		5	XS3R-M426-1050-A
	Connectors on		XS3R-M426-1
	both cable ends		XS3R-M426-5

Mating Connectors

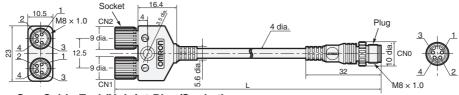
Model	Mating Connectors	
	XS3F (M8)	
VCOD (MO)	XS3H (M8)	
XS3R (M8)	XS3W (M8)	
	XS3P (M8)	

Dimensions (Unit: mm)

M8 Screw-on Connectors

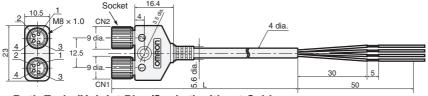
Connectors on Both Cable Ends (Y-Joint Plug/Socket)

XS3R-M426-1□□1-A

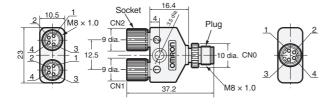


Connector on One Cable End (Y-Joint Plug/Socket)

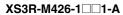
XS3R-M426-1□□0-A

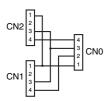


Connector on Both Ends (Y-Joint Plug/Socket) without Cable XS3R-M426- \square

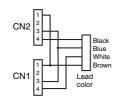


Wiring Diagram

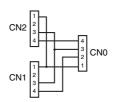




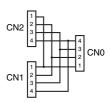
XS3R-M426-1□□0-A



XS3R-M426-1



XS3R-M426-5



XS3 M8/S8 Connector Cover

Dust Covers XS3Z-13 XS3Z-13 M8 Plug S8 Socket S8 Plug



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		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

Safety Precautions

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.

Terms and Conditions Agreement

Read and understand this catalog.

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2018.6

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