

## 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.



Refer to *Safety Precautions* on page 23.

## 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., 100 mA max.)			60 mΩ max. (20 mVDC 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 5poles

\*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

Item	Type Model	M8			S8		
		XS3F/H/W/R	XS3P/M *	XS3M-M524-1□	XS3F/W (Socket side)	XS3H/W (Plug side)	XS3P
Contact block		PBT resin (UL94 V-0) light gray or black					
Contacts		Phosphor bronze/nickel base, 0.4-μm gold plating	Brass/nickel base, 0.4-mm gold plating		Phosphor bronze/nickel base, 0.4-μm gold plating	Brass/nickel base, 0.4-μm gold plating	
Thread bracket		Brass/nickel plating or SUS316L		—	Brass/nickel plating		—
Body		—	Brass/nickel plating	Nickel-plated zinc alloy	—		
Shell		—					
C-Ring		—			Phosphor bronze/tin plating	—	
Grounding fixture		—			Phosphor bronze/tin plating	—	
Nut		—	Brass/nickel plating		—		
Cover		Soft PBT resin (UL94 V-0)	—		TPEE		—
O-ring		Rubber					

\*Except 5poles

Note: The XS3M is for both M8 and S8.

### Cables

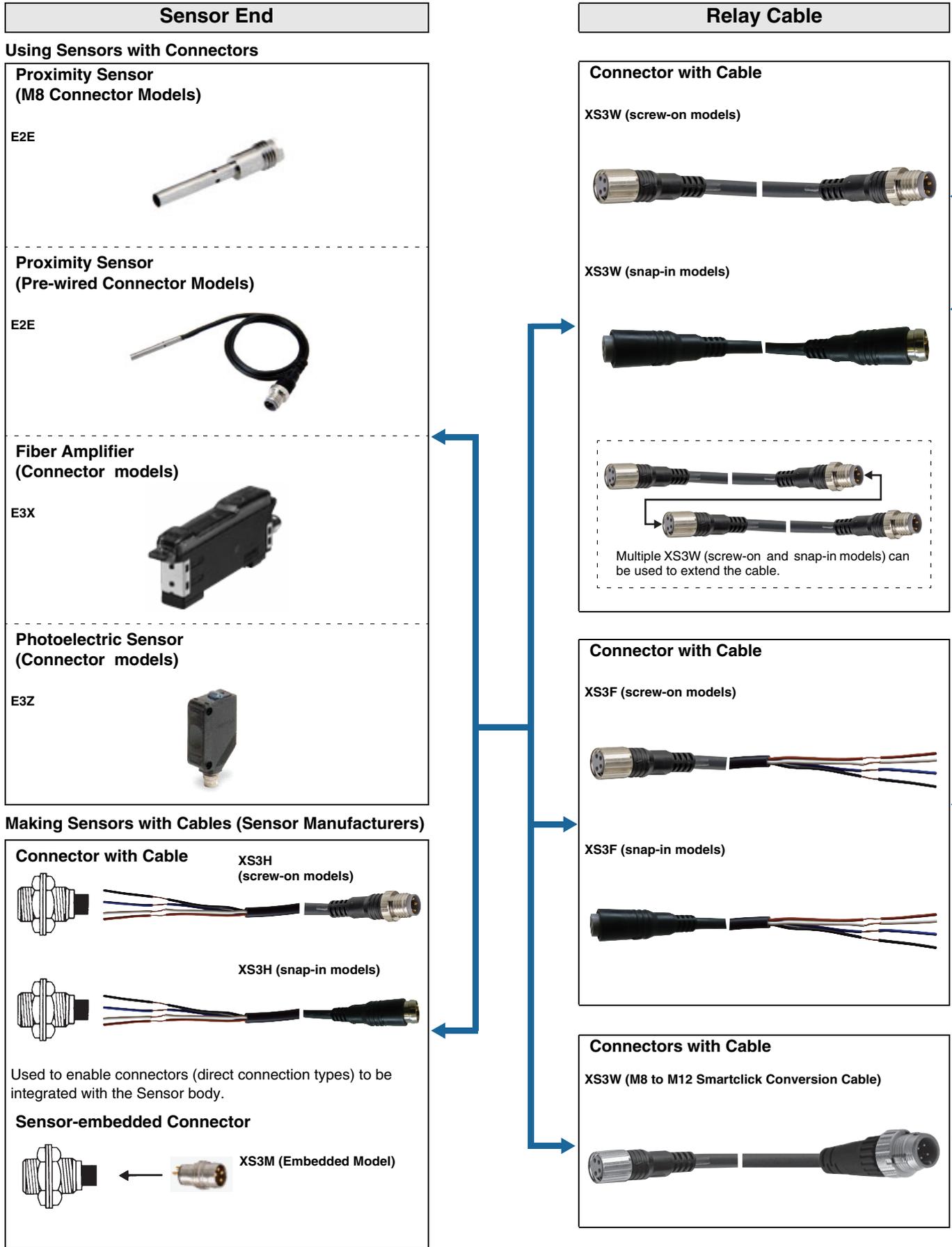
Item	Poles	3 poles	4 poles	5 poles
Standard cable		4 mm dia, AWG24 (0.2 mm <sup>2</sup> ) Structure: 0.12 mm/18		4.7 mm dia, AWG24 (0.2 mm <sup>2</sup> ) Structure: 0.16 mm/11
Robot cable		4 mm dia, AWG24 (0.2 mm <sup>2</sup> ) Structure: 0.08 mm/40	—	
Oil-resistant Polyurethane Robot cable		—	4.7 mm dia, AWG22 (0.3 mm <sup>2</sup> ) Structure: 0.08 mm/60	—

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

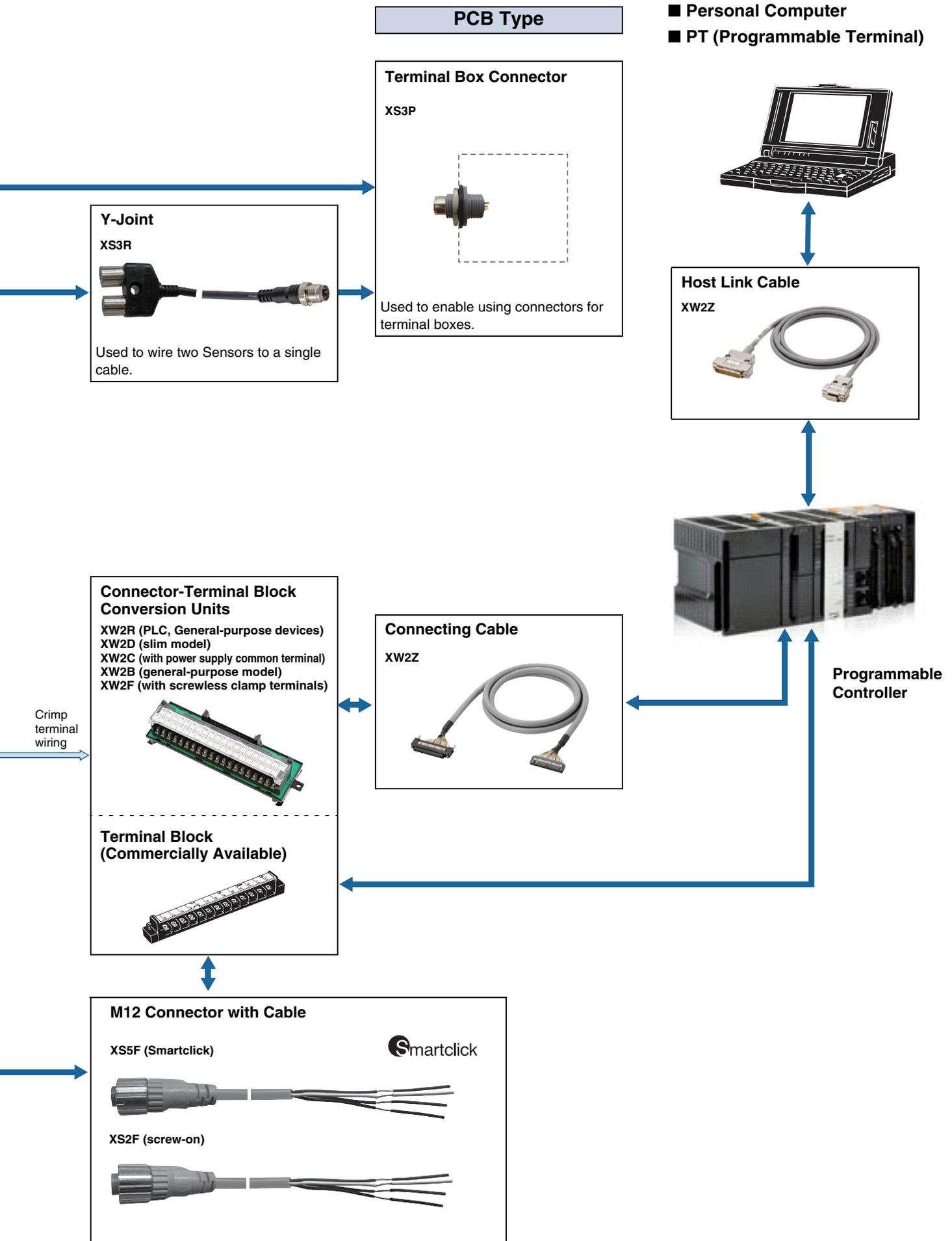
## Pin Arrangement (Engaged Side)

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

Wiring System Configuration



(↔ indicates mating connectors, and ⇄ indicates wiring connections.)

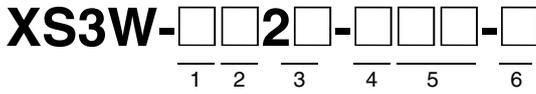


Refer to your OMRON website for details on M12 Connectors with Cables.

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

## 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

- 1: Straight/  
Straight
- 2: Right-angle/  
Right-angle
- 3: Straight (socket)/  
Right-angle (plug)
- 4: Right-angle (socket)/  
Straight (plug)

### 4. Connections

- Pin No.  
①    ③    ④
- 3: Brown    Blue    Black
- Pin No.  
①    ②    ③    ④
- 4: Brown    White    Blue    Black

### 5. Cable Length

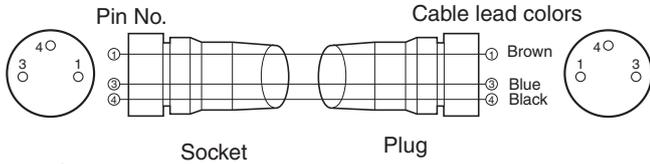
- 01: 1 m
- 02: 2 m
- 05: 5 m

### 6. Cable Specifications

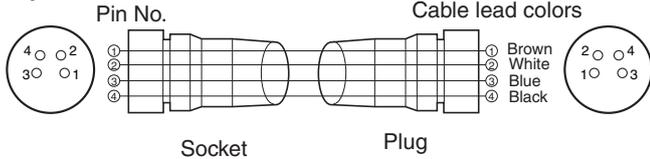
- R: Vibration-proof robot cable
- PR: Oil-resistant Polyurethane Robot cable

## Wiring Diagram/Engaged Side

### 3 poles



### 4 poles



## Mating Connectors

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

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

## Ordering Information

### M8 Screw-on Connectors

Cable Specifications	No. of cable cores	Cable connection direction	Cable length L (m)	Model	
Vibration-proof Robot cable	3	Straight/Straight	1	XS3W-M321-301-R	
			2	XS3W-M321-302-R	
			5	XS3W-M321-305-R	
	4	Straight/Straight	1	XS3W-M421-401-R	
			2	XS3W-M421-402-R	
			5	XS3W-M421-405-R	
		Right-angle/Right-angle	2	XS3W-M422-402-R	
			5	XS3W-M422-405-R	
		Straight (socket)/ Right-angle (plug)	2	XS3W-M423-402-R	
	5		XS3W-M423-405-R		
	Oil-resistant Polyurethane Robot cable	4	Straight/Straight	1	XS3W-M421-401-PR
				2	XS3W-M421-402-PR
5				XS3W-M421-405-PR	
Right-angle/Right-angle		1	XS3W-M422-401-PR		
		2	XS3W-M422-402-PR		
		5	XS3W-M422-405-PR		
Straight (socket)/ Right-angle (plug)	1	XS3W-M423-401-PR			
	2	XS3W-M423-402-PR			
	5	XS3W-M423-405-PR			
Right-angle (socket)/ Straight (plug)	1	XS3W-M424-401-PR			
	2	XS3W-M424-402-PR			
	5	XS3W-M424-405-PR			

### S8 Snap-in Connectors

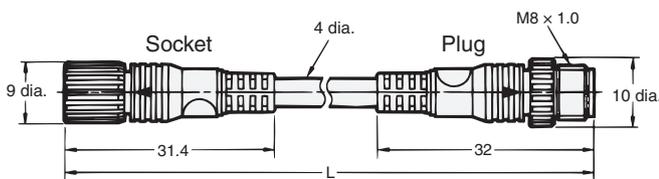
Cable Specifications	No. of cable cores	Cable connection direction	Cable length L (m)	Model
Vibration-proof Robot cable	4	Straight/Straight	1	XS3W-S421-401-R
			2	XS3W-S421-402-R
			5	XS3W-S421-405-R
		Right-angle/Right-angle	2	XS3W-S422-402-R
			5	XS3W-S422-405-R
		Straight (socket)/ Right-angle (plug)	2	XS3W-S423-402-R
	5		XS3W-S423-405-R	
	Right-angle (socket)/ Straight (plug)	2	XS3W-S424-402-R	
		5	XS3W-S424-405-R	

## Dimensions

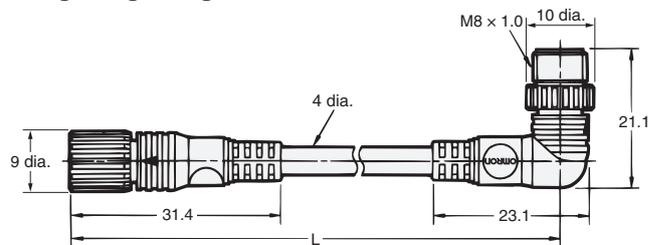
(Unit: mm)

● M8 Screw-on Connectors with Vibration-proof Robot Cable XS3W-M□2□-□□□-R

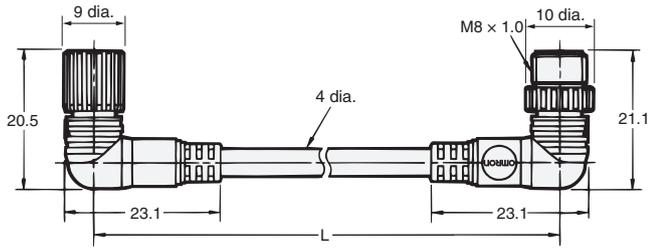
#### Straight/Straight Connectors



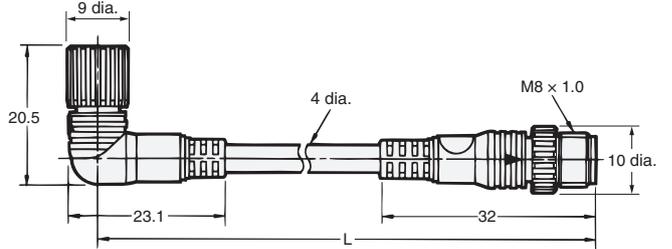
#### Straight/Right-angle Connectors



**Right-angle/Right-angle Connectors**



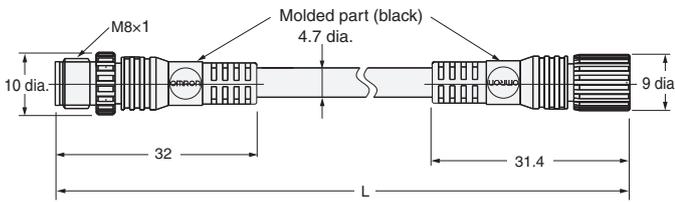
**Right-angle/Straight Connectors**



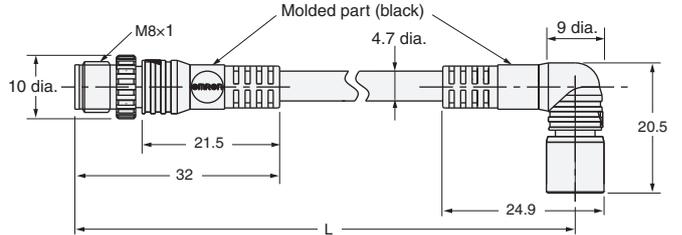
● **M8 Screw-on Connectors with Oil-resistant Polyurethane Robot Cable**

**XS3W-M42□-4□□-PR**

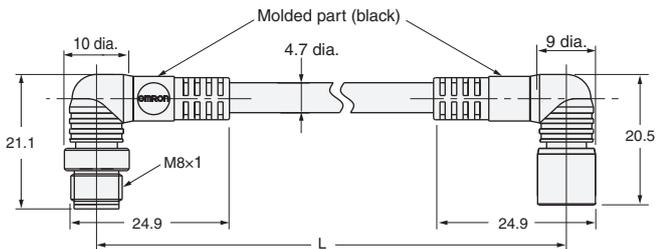
**Straight/Straight Connectors**



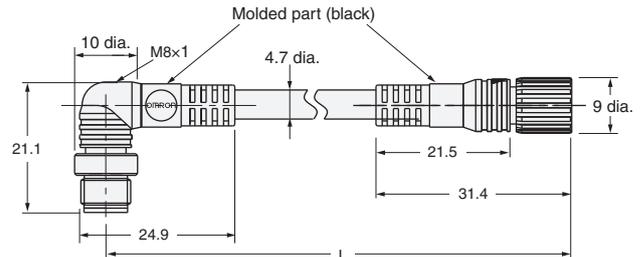
**Straight/Right-angle Connectors**



**Right-angle/Right-angle Connectors**



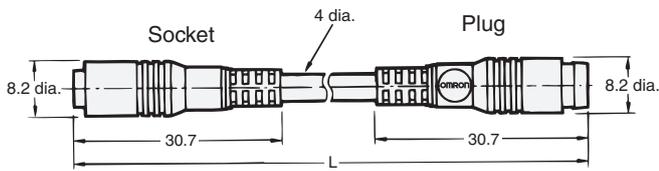
**Right-angle/Straight Connectors**



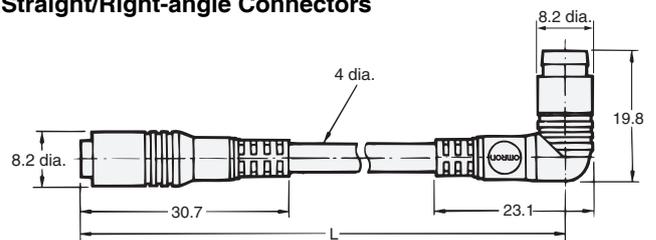
● **S8 Snap-in Connectors with Vibration-proof Robot Cable**

**XS3W-S42□-4□□-R**

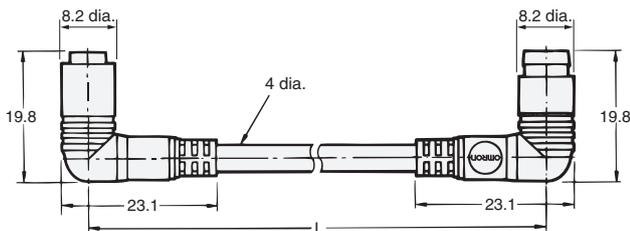
**Straight/Straight Connectors**



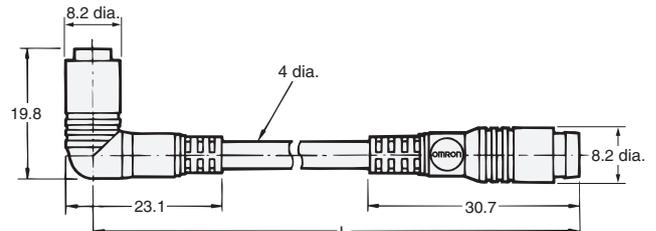
**Straight/Right-angle Connectors**



**Right-angle/Right-angle Connectors**



**Right-angle/Straight Connectors**



# XS3W Connectors with Cables, Connectors on Both 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. When ordering, use a model number from the table in *Ordering Information*.

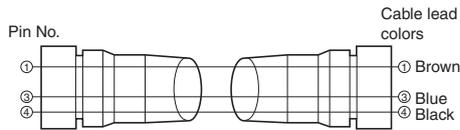
**XS3W-M** **2** **-** **C2-A**

1
2
3
4
5
6

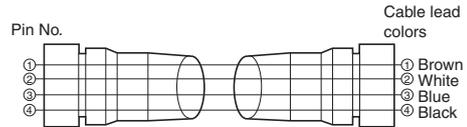
<p><b>1. Fastening Method</b></p> <p>M: M8</p>	<p><b>2. Connector Poles</b></p> <p>3: 3 poles 4: 4 poles</p>	<p><b>3. Cable Connection Direction</b></p> <p>C: M8 (screw-on) socket: Straight, M12 (Smartclick) plug: Straight</p> <p>D: M8 (screw-on) plug: Straight, M12 (Smartclick) socket: Straight</p>	<p><b>4. Connections</b></p> <p>Pin No. ①      ③      ④</p> <p>3: Brown Blue Black</p> <p>Pin No. ①      ②      ③      ④</p> <p>4: Brown White Blue Black</p>	<p><b>5. Cable Length</b></p> <p>C2: 20 cm</p>	<p><b>6. Cable Specifications</b></p> <p>A: Standard cable</p>
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## Wiring Diagram

### 3 poles



### 4 poles



## Ordering Information

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

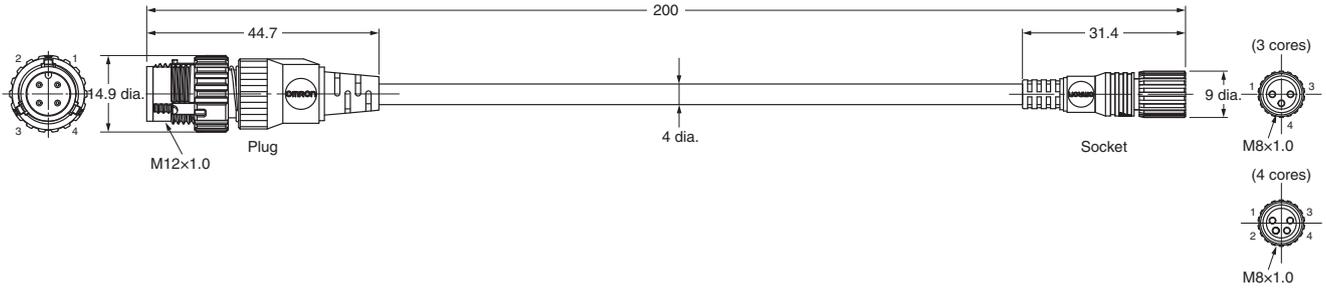
Dimensions

(Unit: mm)

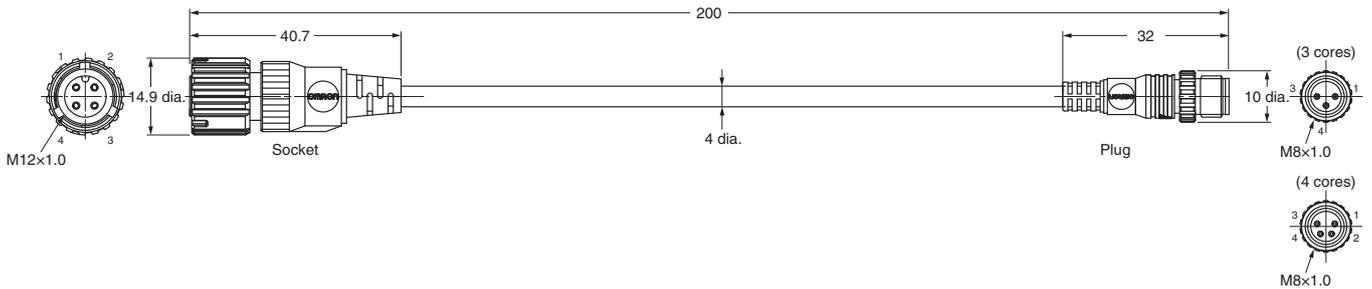
● Screw-on Connectors (M8 to M12)

XS3W-M□□□-□C2-A

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



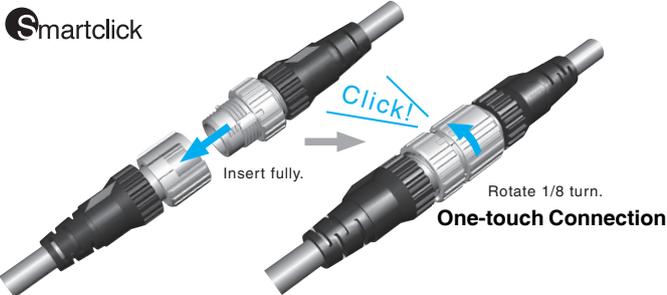
XS3W-M32D-3C2-A, XS3W-M42D-4C2-A



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

For the M12 connectors, one-touch (Smartclick) connectors that are compatible with previous screw-on M12 connectors are used. Refer to your OMRON website for details.

XS5 Series



Smartclick is a registered trademark of the OMRON Corporation.

# XS3F 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*.

**XS3F-**  **2** **-**   **-** 

1
2
3
4
5
6

### 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.
- ①            ③            ④
- 3: Brown Blue Black
- Pin No.
- ①            ②            ③            ④
- 4: Brown White Blue Black
- Pin No.
- ①            ②            ③            ④            ⑤
- 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
- R: Vibration-proof robot cable
- PR: Oil-resistant Polyurethane Robot cable

## Mating Connectors

Item	Model
XS3F(M8)	XS3M (M8/S8), XS3H (M8), XS3W (M8)
XS3F(S8)	XS3M (M8/S8), XS3H (M8), XS3W (M8)

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

Ordering Information

M8 Screw-on Connectors

Cable Specifications	No. of cable cores	Cable connection direction	Cable length L (m)	Model		
Standard cable	3	Straight	2	XS3F-M321-302-A		
			5	XS3F-M321-305-A		
		Right-angle	2	XS3F-M322-302-A		
			5	XS3F-M322-305-A		
Vibration-proof robot cable	3	Straight	2	XS3F-M321-302-R		
			5	XS3F-M321-305-R		
		Right-angle	2	XS3F-M322-302-R		
			5	XS3F-M322-305-R		
Standard cable	4	Straight	2	XS3F-M421-402-A		
			5	XS3F-M421-405-A		
		Right-angle	2	XS3F-M422-402-A		
			5	XS3F-M422-405-A		
		Vibration-proof robot cable	4	Straight	1	XS3F-M421-401-R
					2	XS3F-M421-402-R
5	XS3F-M421-405-R					
Right-angle	1			XS3F-M422-401-R		
	2			XS3F-M422-402-R		
	5			XS3F-M422-405-R		
Standard SUS316L cable lock	4	Straight	2	XS3F-E421-402-A		
			5	XS3F-E421-405-A		
		Right-angle	2	XS3F-E422-402-A		
			5	XS3F-E422-405-A		
Oil-resistant Polyurethane Robot cable	4	Straight	2	XS3F-M421-402-PR		
			5	XS3F-M421-405-PR		
		Right-angle	1	XS3F-M422-401-PR		
			2	XS3F-M422-402-PR		
			5	XS3F-M422-405-PR		
			5	XS3F-M422-405-PR		
Standard cable	5	Straight	2	XS3F-M521-502-A		
			5	XS3F-M521-505-A		
			10	XS3F-M521-510-A		
		Right-angle	2	XS3F-M522-502-A		
			5	XS3F-M522-505-A		
			10	XS3F-M522-510-A		

S8 Snap-in Connectors

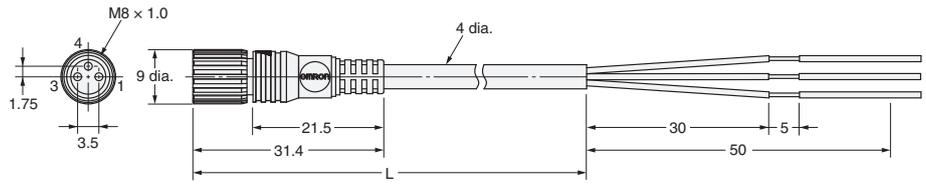
Cable Specifications	No. of cable cores	Cable connection direction	Cable length L (m)	Model
Vibration-proof robot cable	4	Straight	1	XS3F-S421-401-R
			2	XS3F-S421-402-R
			5	XS3F-S421-405-R
		Right-angle	1	XS3F-S422-401-R
			2	XS3F-S422-402-R
			5	XS3F-S422-405-R

Dimensions

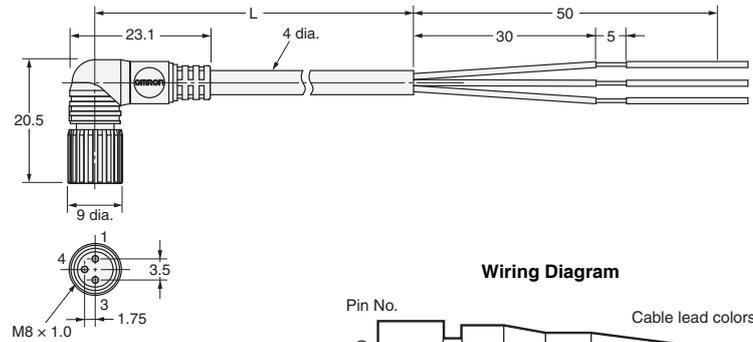
● M8 3 pin Screw-on Connectors with Vibration-proof Robot Cable/Standard Cable

XS3F-M32□-3□□-□

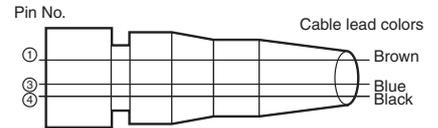
Straight Connectors



Right-angle Connectors



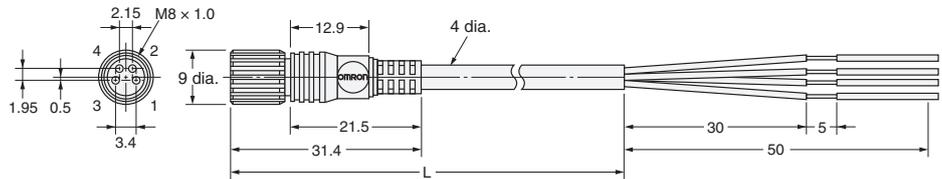
Wiring Diagram



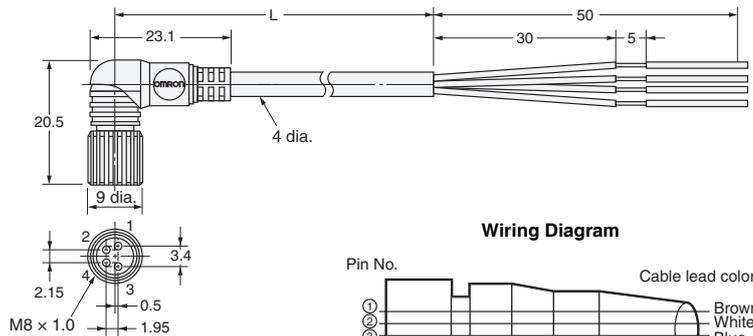
● M8 4 pin Screw-on Connectors with Vibration-proof Robot Cable/Standard Cable

XS3F-□42□-4□□-□

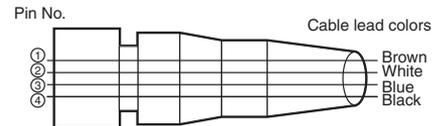
Straight Connectors



Right-angle Connectors



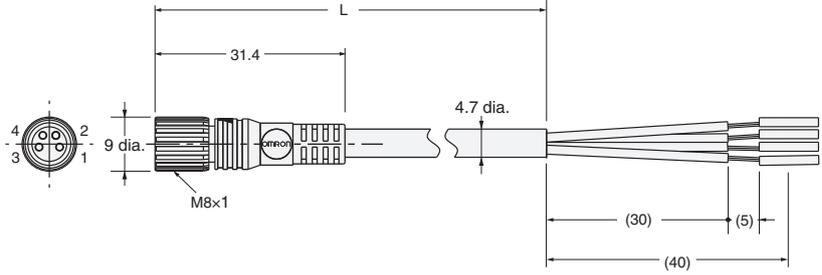
Wiring Diagram



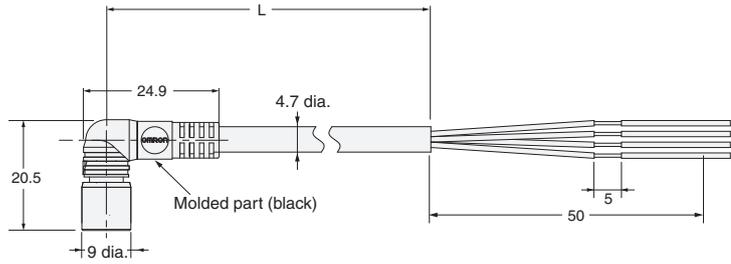
● M8 4 pin Screw-on Connectors with Oil-resistant Polyurethane Robot Cable

XS3F-M42□-40□-PR

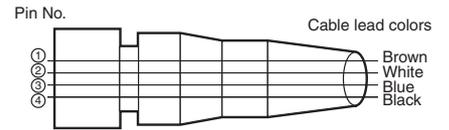
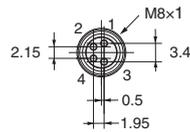
Straight Connectors



Right-angle Connectors



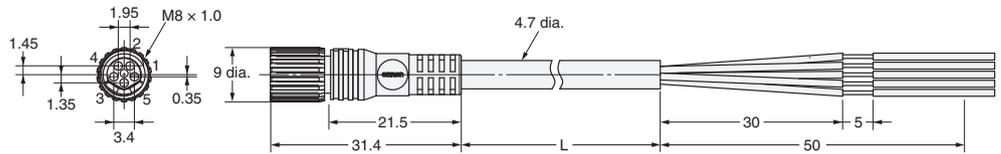
Wiring Diagram



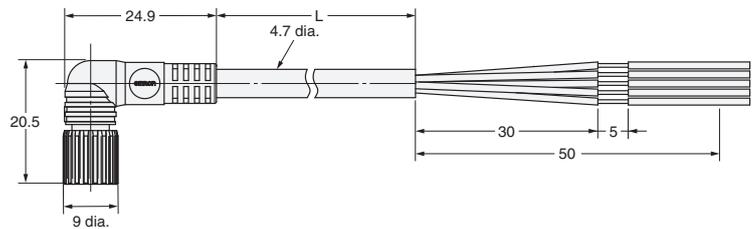
● M8 5 pin Screw-on Connectors with Standard Cable

XS3F-M52□-5□□-A

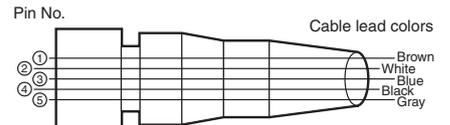
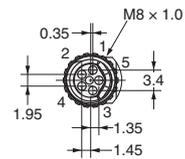
Straight Connectors



Right-angle Connectors



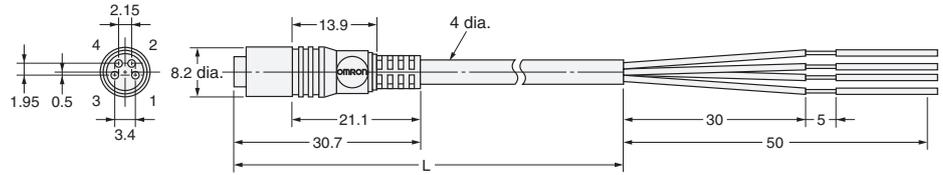
Wiring Diagram



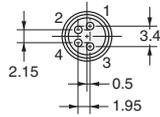
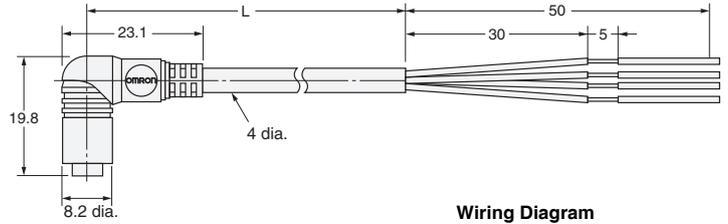
● S8 Snap-in Connectors with Vibration-proof Robot Cable

XS3F-S42□-4□□-R

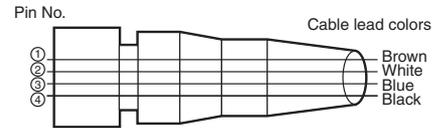
**Straight Connectors**



**Right-angle Connectors**



**Wiring Diagram**



# 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*.

**XS3H-**

1	2	3	4	5	6						

### 1. Fastening Method

M: M8  
S: S8

### 3. Cable Connection Direction

1: Straight  
2: Right-angle

### 5. Cable Length

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

### 2. Connector Poles

3: 3 poles  
4: 4 poles

### 4. Connections

Pin No.  
①      ③      ④  
3: Brown Blue Black  
Pin No.  
①      ②      ③      ④  
4: Brown White Blue Black

### 6. Cable Specifications

R: Vibration-proof robot cable  
PR: Oil-resistant Polyurethane Robot cable

## Mating Connectors

Item	Model
XS3H(M8)	XS3F (M8), XS3W (M8), XS3P (M8)
XS3H(S8)	XS3F (S8), XS3W (S8), XS3P (S8)

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

## Ordering Information

### M8 Screw-on Connectors

Cable Specifications	No. of cable cores	Cable connection direction	Cable length L (m)	Model
Vibration-proof Robot cable	3	Straight	0.3	XS3H-M321-3C3-R
			1	XS3H-M321-301-R
	4	Straight	0.3	XS3H-M421-4C3-R
			1	XS3H-M421-401-R
		Right-angle	0.3	XS3H-M422-4C3-R
			1	XS3H-M422-401-R
Oil-resistant Polyurethane Robot cable	4	Straight	2	XS3H-M421-402-PR
			5	XS3H-M421-405-PR
		Right-angle	1	XS3H-M422-401-PR
			2	XS3H-M422-402-PR
			5	XS3H-M422-405-PR

### S8 Snap-in Connectors

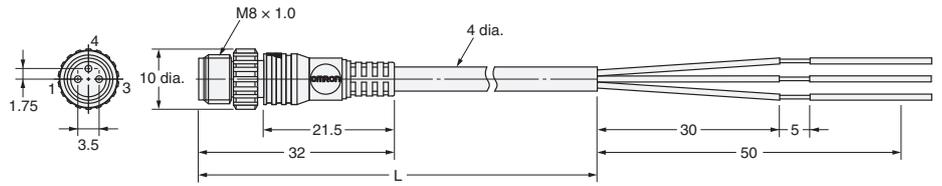
Cable Specifications	No. of cable cores	Cable connection direction	Cable length L (m)	Model
Vibration-proof Robot cable	4	Straight	0.3	XS3H-S421-4C3-R
			1	XS3H-S421-401-R
		Right-angle	0.3	XS3H-S422-4C3-R
			1	XS3H-S422-401-R

**Dimensions**

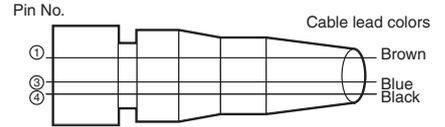
● M8 3 pin Screw-on Connectors with Vibration-proof Robot Cable

**XS3H-M321-3□□-R**

**Straight Connectors**



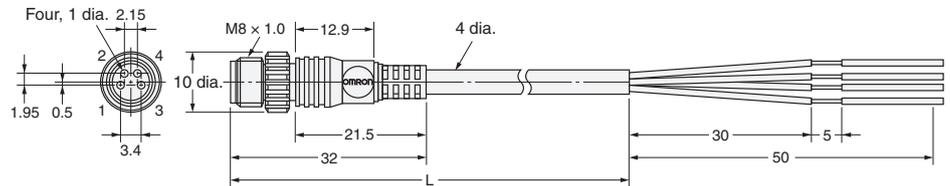
**Wiring Diagram**



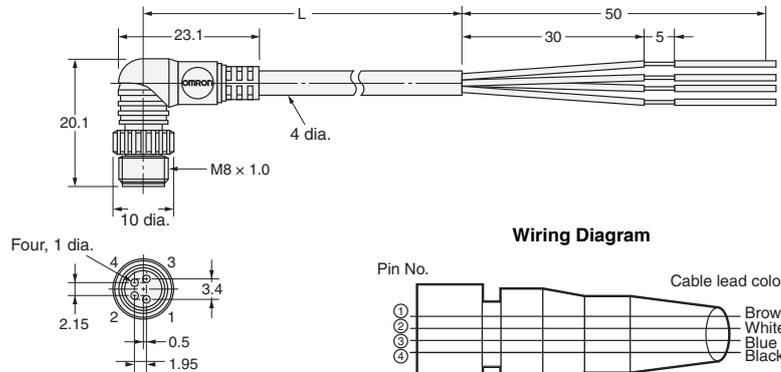
● M8 4 pin Screw-on Connectors with Vibration-proof Robot Cable

**XS3H-M42□-4□□-R**

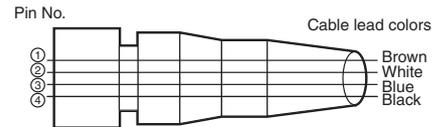
**Straight Connectors**



**Right-angle Connectors**



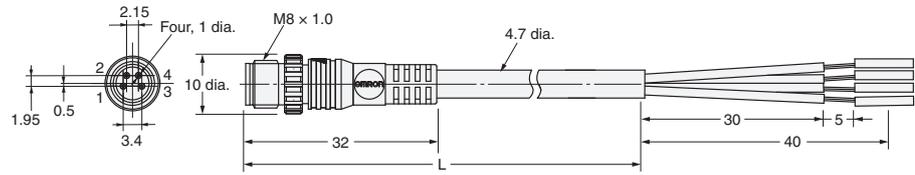
**Wiring Diagram**



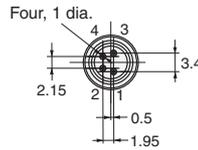
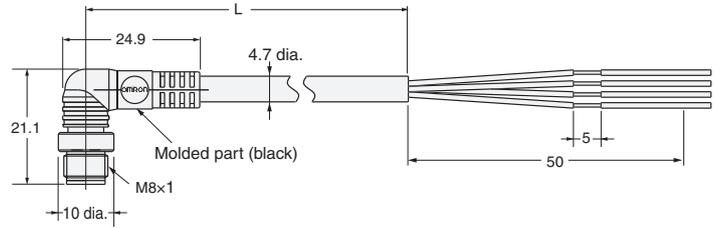
● M8 4 pin Screw-on Connectors with Oil-resistant Polyurethane Robot Cable

XS3H-M42□-40□-PR

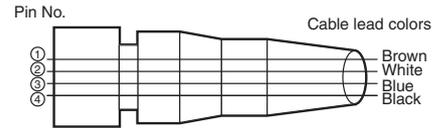
Straight Connectors



Right-angle Connectors



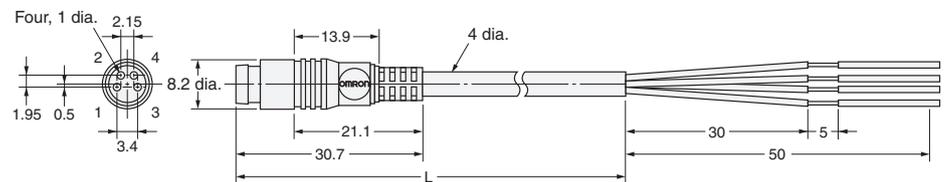
Wiring Diagram



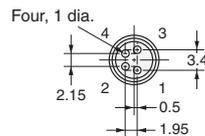
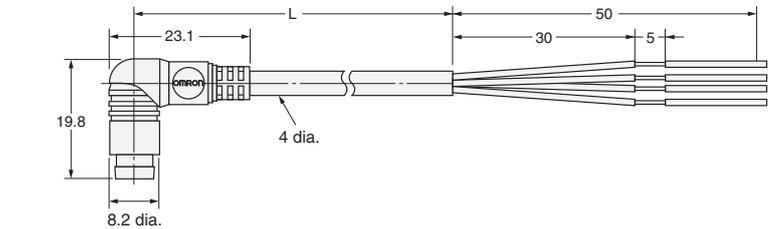
● S8 4 pin Snap-in Connectors with Vibration-proof Robot Cable

XS3H-S42□-4□□-R

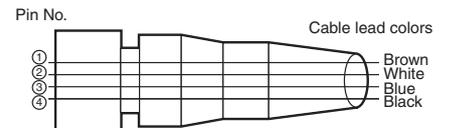
Straight Connectors



Right-angle Connectors



Wiring Diagram



# XS3P Panel-mounting Sockets for Terminal Boxes

## Mating Connectors

Item	Model
XS3P(M8)	XS3H (M8), XS3W (M8)
XS3P(S8)	XS3H (S8), XS3W (S8)

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

## Ordering Information

Connection method	Panel mounting	Pin shape	Applicable wires	Model	Minimum order
M8 screw-on	Front lock or rear lock	DIP pins	---	<b>XS3P-M421-1</b>	50
		Solder cup pins	AWG24 max.	<b>XS3P-M421-2</b>	
S8 snap-in	Front lock or rear lock	Solder cup pins	AWG24 max.	<b>XS3P-M422-2</b>	
		DIP pins	---	<b>XS3P-S421-1</b>	
		Solder cup pins	AWG24 max.	<b>XS3P-S421-2</b>	

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

## Safety Precautions

In addition to the following information, also refer to *Safety Precautions* on page 23

### 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.

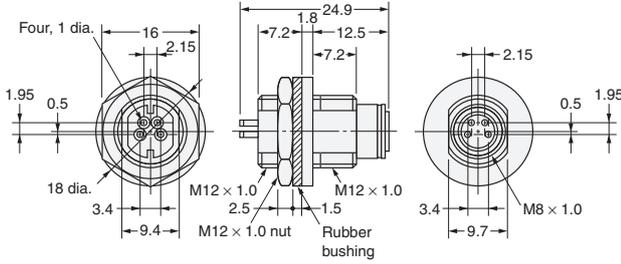
**Dimensions**

(Unit: mm)

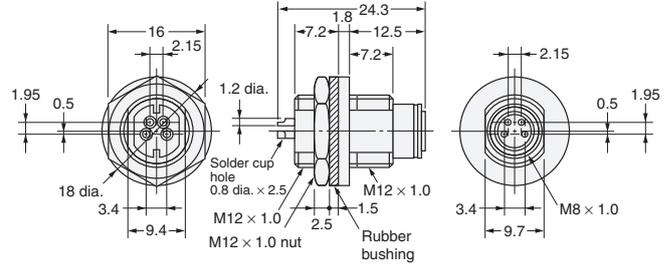
- M8 Screw-on Sockets with DIP Pins
- M8 Screw-on Sockets with Solder Cup Pins
- M8 Screw-on Sockets with Solder Cup Pins

**XS3P-M421-1**  
**XS3P-M421-2**  
**XS3P-M422-2**

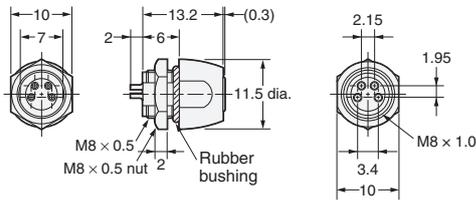
**XS3P-M421-1 (DIP Pins)**  
**Front lock or rear lock**



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



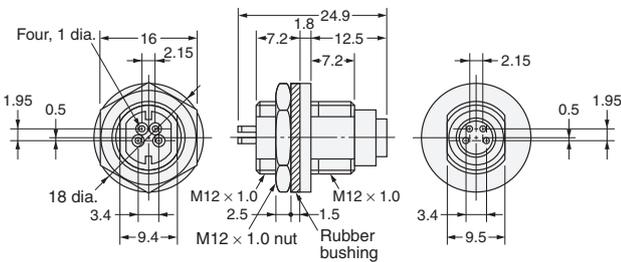
**XS3P-M422-2 (Solder Cup Pins), Rear Lock Slim Models**



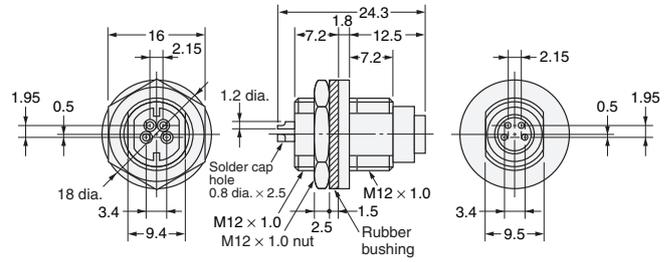
- S8 Snap-in Sockets with DIP Pins
- S8 Snap-in Sockets with Solder Cup Pins

**XS3P-S421-1**  
**XS3P-S421-2**

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



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

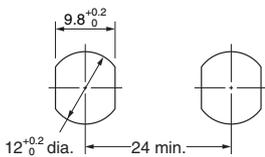


**Mounting Dimensions for XS3P Screw-on Models and Snap-in Models**

(Unit: mm)

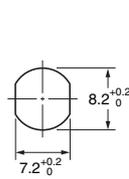
**Panel Cutouts**

**XS3P-□421-□**

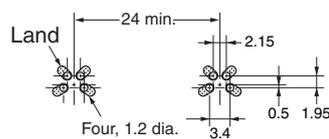


Note: The panel thickness is 1 to 3 mm.

**XS3P-M422-2**

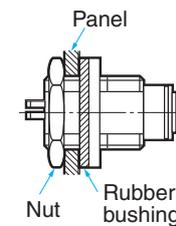


**PCB-mounting Dimensions**

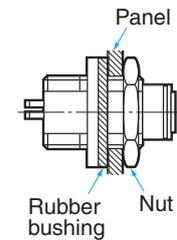


Note: The panel thickness is 2.4 mm maximum.

**Panel-mounting Dimensions**



**Front Lock**



# XS3M Sensor Embedded Plugs

## Mating Connectors

Item	Model
XS3M	XS3F (M8/S8), XS3W (M8/S8)

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

## Ordering Information

Connection method	Pin shape	Applicable wires	Model	Minimum order
Embedded model	DIP pins	---	XS3M-K421-1	200
	Solder cup pins	AWG26 max.	XS3M-K421-2	

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

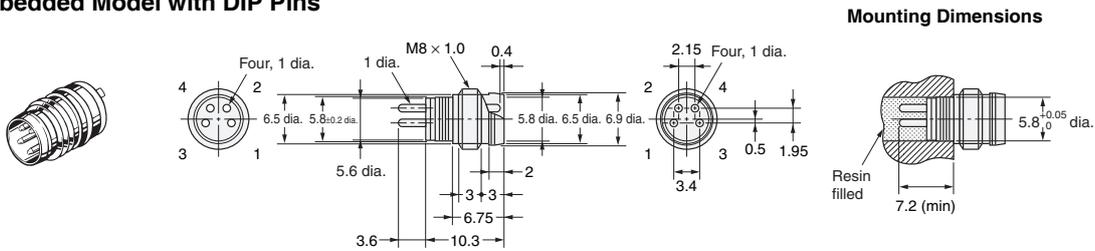
## Dimensions

(Unit: mm)

<ul style="list-style-type: none"> <li>● Embedded Plugs with Screw Threads and DIP Pins</li> <li>● Embedded Plugs with Screw Threads and Solder Cup Pins</li> </ul>	<p><b>XS3M-K421-1</b></p> <p><b>XS3M-K421-2</b></p>
---	---

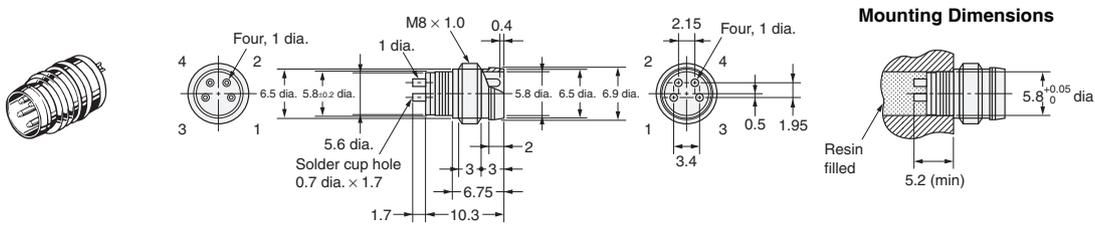
### XS3M-K421-1

#### Embedded Model with DIP Pins



### XS3M-K421-2

#### Embedded Model with Solder Cup Pins



# XS3M Panel-mounting Plugs

## Mating Connectors

Item	Model
XS3M-M524-1□	XS3F-M52□-5□□-A

## Ordering Information

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

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

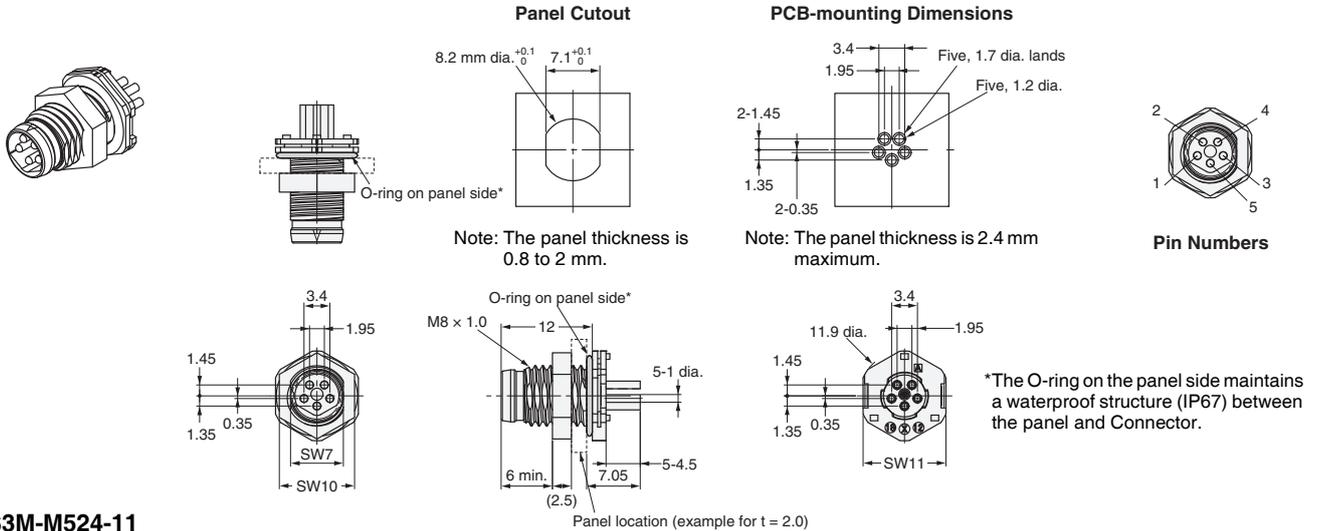
## Dimensions

(Unit: mm)

● Front lock DIP pins (5 pins) XS3M-M524-□□

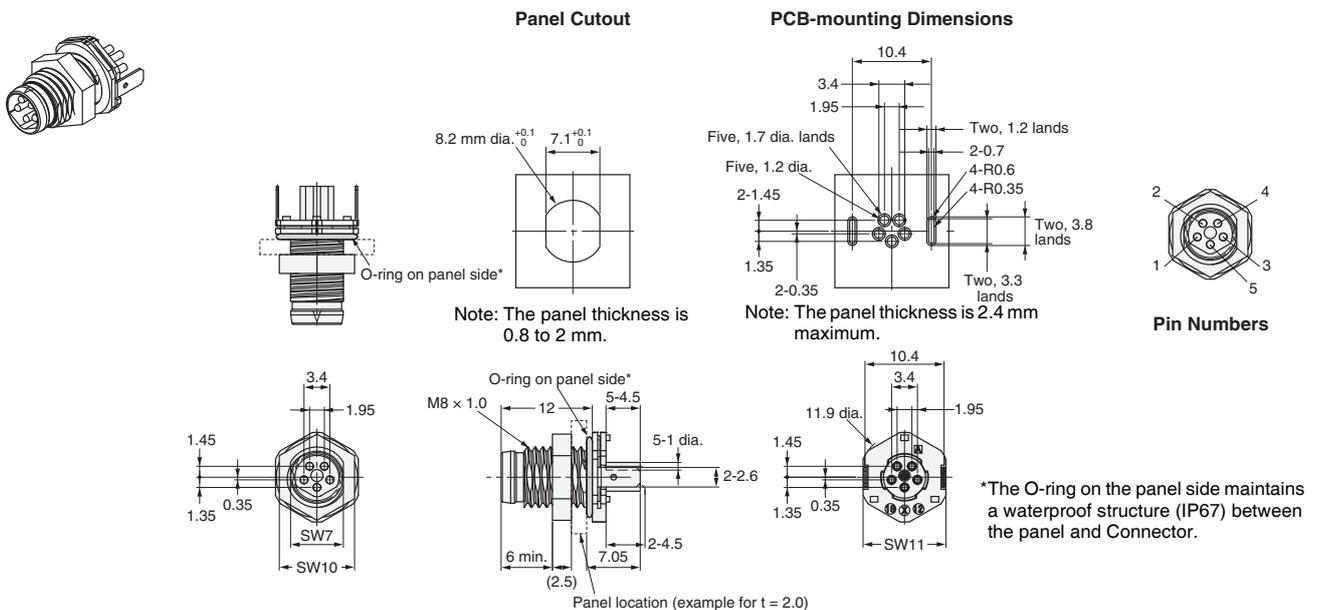
### XS3M-M524-10

#### Front Lock with DIP Pins 4.5 mm (for Either Round Holes or Solder Cups), Without Shield Pin



### XS3M-M524-11

#### Front Lock with DIP Pins 4.5 mm (for Either Round Holes or Solder Cups), With Shield Pin



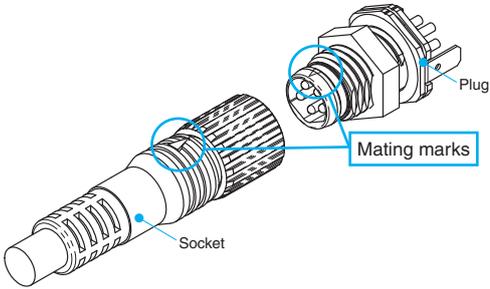
## Safety Precautions

In addition to the following information, also refer to *Safety Precautions* on page 23

### Precautions for Correct Use

#### XS3M-M524-□□ Mating

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.



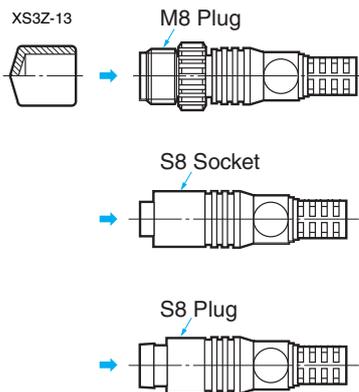
#### XS3M-M524-□□ Panel Mounting

After you mount the Connector to the panel, attach the nut and tighten it to a suitable torque (0.4 N·m).

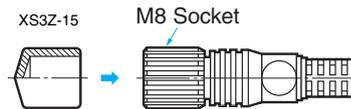
## XS3 M8/S8 Connector Cover

### Dust Cover

#### XS3Z-13



#### XS3Z-15



The Dust Cover is for dust prevention and does not ensure IP67. 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

# XS3R Y-Joint Plug/Socket Connectors

## Mating Connectors

Item	Model
XS3R(M8)	XS3F(M8)
	XS3H(M8)
	XS3W(M8)
	XS3P(M8)

## Ordering Information

### For M8 Connectors

Cable	Connector	Cable length L (m)	Model	Minimum order
With cable	Connectors on both cable ends	0.5	XS3R-M426-1C51-A	5
		1	XS3R-M426-1011-A	
		2	XS3R-M426-1021-A	
		3	XS3R-M426-1031-A	
	Connector on one cable end	2	XS3R-M426-1020-A	
Without cable	Connectors on both cable ends	---	XS3R-M426-1	10
		---	XS3R-M426-5	

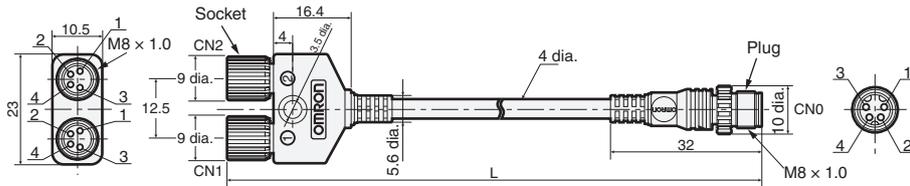
## Dimensions

(Unit: mm)

● Screw-on Models (M8)	With Standard Cable:	XS3R-M426-1□□□-A
	Without Cable:	XS3R-M426-□

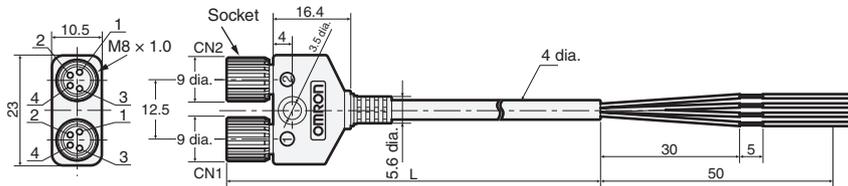
### XS3R-M426-1□□□-A

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



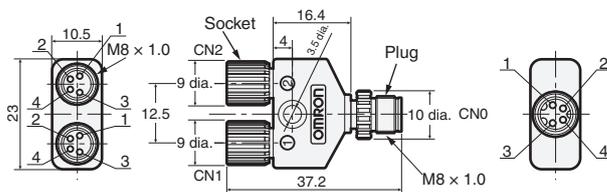
### XS3R-

#### M426-1□□□-A



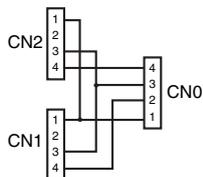
### XS3R-M426-□

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

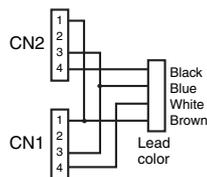


## Wiring Diagram

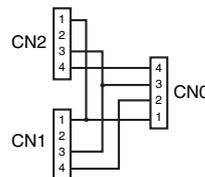
### XS3R-M426-1□□□-A



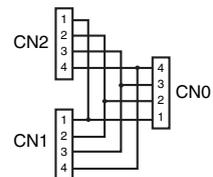
### XS3R-M426-1□□□-A



### XS3R-M426-1



### XS3R-M426-5



## 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 engagement side of any Connector 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 engagement side 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 lock nut, hold onto only the lock nut.  
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 engaged side 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

#### Installation

- 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.

Please read and understand this catalog before purchasing the products. Please consult your OMRON representative if you have any questions or comments.

### Warranties.

(a) Exclusive Warranty. Omron's exclusive warranty is that the Products will be free from defects in materials and workmanship for a period of twelve months from the date of sale by Omron (or such other period expressed in writing by Omron). Omron disclaims all other warranties, express or implied.

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Further, in no event shall liability of Omron Companies exceed the individual price of the Product on which liability is asserted.

### Suitability of Use.

Omron Companies shall not be responsible for conformity with any standards, codes or regulations which apply to the combination of the Product in the Buyer's application or use of the Product. At Buyer's request, Omron will provide applicable third party certification documents identifying ratings and limitations of use which apply to the Product. This information by itself is not sufficient for a complete determination of the suitability of the Product in combination with the end product, machine, system, or other application or use. Buyer shall be solely responsible for determining appropriateness of the particular Product with respect to Buyer's application, product or system. Buyer shall take application responsibility in all cases.

NEVER USE THE PRODUCT FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY OR IN LARGE QUANTITIES WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE OMRON PRODUCT(S) IS PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

### Programmable Products.

Omron Companies shall not be responsible for the user's programming of a programmable Product, or any consequence thereof.

### Performance Data.

Data presented in Omron Company websites, catalogs and other materials is provided as a guide for the user in determining suitability and does not constitute a warranty. It may represent the result of Omron's test conditions, and the user must correlate it to actual application requirements. Actual performance is subject to the Omron's Warranty and Limitations of Liability.

### Change in Specifications.

Product specifications and accessories may be changed at any time based on improvements and other reasons. It is our practice to change part numbers when published ratings or features are changed, or when significant construction changes are made. However, some specifications of the Product may be changed without any notice. When in doubt, special part numbers may be assigned to fix or establish key specifications for your application. Please consult with your Omron's representative at any time to confirm actual specifications of purchased Product.

### Errors and Omissions.

Information presented by Omron Companies has been checked and is believed to be accurate; however, no responsibility is assumed for clerical, typographical or proofreading errors or omissions.

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In the interest of product improvement, specifications are subject to change without notice.

**OMRON Corporation**  
Industrial Automation Company

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