Round Water-resistant Connectors (M12 Smartclick)

XS5

CSM_XS5_DS_E_13_6

Round Water-resistive Smartclick Connectors That Reduce Installation Work

- A newly developed lock mechanism that is compatible with round M12 connectors.
- Simply insert the Connectors, then turn them approximately 1/8 of a turn to lock.
- A positive click indicates locking.
- Features the same degree of protection (IP67) as M12 connectors.
- Connectors with Cables are UL certified.
- Four types of assembly connectors are available, including IDC, crimping, soldering and screw-on types.

Refer to *Safety Precautions* on page 27.

Smartclick

Model Number Structure

Connectors with Cables Model Number Legend

Connector	Cable specifications	XS5: One-touch Smartclick Connection (compatible with M12 connectors)			XS2: M12 Screw Connection*	
		Cable length (m)	Model	Reference page	Cable length (m)	Model
Connectors on both cable ends	Fire-retardant, robot cable	0.5	**XS5W-D421-B81-F**	3	0.5	—
		1	**XS5W-D421-C81-F**		1	**XS2W-D421-C81-F**
		2	**XS5W-D421-D81-F**		2	**XS2W-D421-D81-F**
		3	**XS5W-D421-E81-F**		3	**XS2W-D421-E81-F**
		4	**XS5W-D421-F81-F**		4	—
		5	**XS5W-D421-G81-F**		5	**XS2W-D421-G81-F**
		10	**XS5W-D421-J81-F**		10	**XS2W-D421-J81-F**
	Oil-resistant polyurethane robot cable	2	**XS5W-D42B-D81-PR**		2	—
		5	**XS5W-D42B-G81-PR**		5	—
		10	**XS5W-D42B-J81-PR**		10	—
	Spatter-resistant Cable	2	**XS5W-D421-D81-SA**		2	**XS2W-D421-D81-SA**
		5	**XS5W-D421-G81-SA**		5	**XS2W-D421-G81-SA**
Connector on one cable end (Socket)	Fire-retardant, robot cable	1	**XS5F-D421-C80-F**	6	1	**XS2F-D421-C80-F**
		2	**XS5F-D421-D80-F**		2	**XS2F-D421-D80-F**
		3	**XS5F-D421-E80-F**		3	—
		5	**XS5F-D421-G80-F**		5	**XS2F-D421-G80-F**
		10	**XS5F-D421-J80-F**		10	**XS2F-D421-J80-F**
	Oil-resistant polyurethane robot cable	2	**XS5F-D42B-D80-PR**		2	—
		5	**XS5F-D42B-G80-PR**		5	—
		10	**XS5F-D42B-J80-PR**		10	—
	Spatter-resistant Cable	2	**XS5F-D421-D80-SA**		2	**XS2F-D421-D80-SA**
		5	**XS5F-D421-G80-SA**		5	**XS2F-D421-G80-SA**
Connector on one cable end (Plug)	Fire-retardant, robot cable	0.3	**XS5H-D421-A80-F**	8	0.3	**XS2H-D421-A80-F**
		0.5	**XS5H-D421-B80-F**		0.5	**XS2H-D421-B80-F**
		1	**XS5H-D421-C80-F**		1	**XS2H-D421-C80-F**
		2	**XS5H-D421-D80-F**		2	**XS2H-D421-D80-F**
		3	**XS5H-D421-E80-F**		3	—
		5	**XS5H-D421-G80-F**		5	**XS2H-D421-G80-F**
	Spatter-resistant Cable	0.3	**XS5H-D421-A80-SA**		0.3	**XS2H-D421-A80-SA**
		1	**XS5H-D421-C80-SA**		1	**XS2H-D421-C80-SA**

*For details, refer to the data sheet of the XS2 Round Water-resistant Connectors (M12 Threads).
Note 1. Only DC, straight, and 4-core types are shown in this table. Refer to the relevant pages for other products.
2. Other than the M12 sizes introduced in this table, M8-sized (XS3) products and M8-M12 conversion cables are also available. For details, refer to the data sheet of the XS3 Round Water-resistant Connectors (M8/S8).

XS5: One-touch Smartclick Connection (compatible with M12 screws)

Note:Screw connections will be made if connecting with a screw type.

Socket side

Plug side

Turn approx. 1/8 of a turn to connect

Connections can be checked using markings

XS2: M12 Screw Connection*

Socket side

Plug side

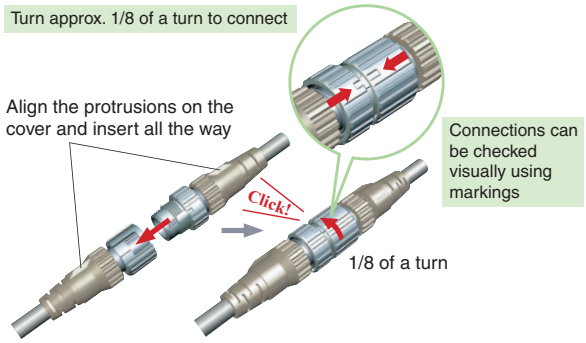
*For details, refer to the data sheet of the XS2 Round Water-resistant Connectors (M12 Threads).

Smartclick is a registered trademark of the OMRON Corporation.

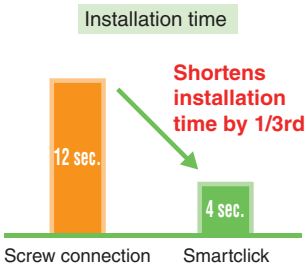
Features

Featuring a Lock Mechanism that Connects and Disconnects with One-touch

It can be used easily by anyone, significantly reducing man-hours spent on wiring.



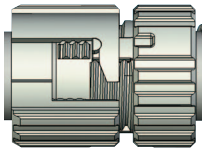
Connections are complete when an audible click sound can be heard.



According to reference values obtained by OMRON.

It does not become loose due to machine vibration, meaning periodic re-tightening is unnecessary.

Featuring a bayonet locking mechanism



Enlarged view of bayonet locking mechanism

Compatibility with M12 Screws

Can also be connected to M12 screw sensors and actuators

	XS5 Smartclick Plug Connectors	M12 Screw Plug Connectors
XS5 Smartclick Socket Connectors	One-touch connection	Screw connection
M12 Screw Socket Connectors	Screw connection	Screw connection

All types of combinations can be connected.
Screw connections will be made if connecting Smartclick with a screw type.

Ratings and Specifications

Rated current	4 A
Rated voltage	250 VDC
Contact resistance (connector)	40 mΩ max. (20 mV max., 100 mA max.)
Insulation resistance	1,000 MΩ min. (at 500 VDC)
Dielectric strength (connector)	1,500 VAC for 1 min (leakage current: 1 mA max.)
Degree of protection	IP67 (IEC60529)
Insertion tolerance	50 times
Lock strength	Tensile: 100 N/15 s, Torsion: 1 N·m/15 s
Cable holding strength	Tensile: 100 N/15 s, Torsion: 1 N·m/15 s (for cable diameter of 6 mm) *2
Lock operating force	0.1 to 0.25 N·m
Ambient operating temperature range	–25 to 70°C *3
Ambient humidity range	20% to 85%
Number of pressure-weld repairs *1	10 times max. (Limited to the same external diameter and wire diameter.)

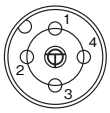
*1. Only XS5C/G (IDC models)
*2. Refer to product specifications for details.
*3. Use the robot cable within a temperature range between 0°C and 70°C to prevent the wires inside the cable from being broken when bending it.

Materials and Finish

Item	Model	XS5F/H/W	XS5R	XS5M/P	XS5C/G (Crimping, Soldering)	XS5C/G (Screw-on)	XS5C/G (IDC)
Contacts	Material	Phosphor bronze	Phosphor bronze or Brass	Phosphor bronze	Brass	Phosphor bronze or Brass	Phosphor bronze
	Finish	Nickel base, 0.4-µm gold plating					Nickel base, 0.15-µm gold plating
Fixture		Nickel plated zinc alloy					
Fixtures (Lock) *		Stainless					
Pin block		PBT resin (UL94V-0)					
O-ring		Rubber					
Cover		Soft PBT resin (UL94V-0)		—	PBT resin (UL94V-0)		
Cable	Fire-retardant, robot cable	UL AWM2464 CL3, 6 mm dia., AWG20 (0.5 mm^2) Structure: 0.08 mm/110 wires		—			
	Oil-resistant polyurethane cable	6 mm dia. AWG20 (0.5 mm^2) Structure: 0.12mm/45 wires		—			
	Spatter-resistant Cable	6.6 mm dia. AWG20 (0.5 mm^2) Structure: 0.08 mm/100 wires		—			
	Oil-resistant polyurethane robot cable	4.7 mm dia. AWG23 (0.3 mm^2) Structure: 0.08 mm/60 wires	—				

*Only plug

Pin Arrangement (Engaged Side)

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

Connection Combinations

OMRON model No.		Smartclick Plug Connectors	M12 Plug Connectors
		XS5H, XS5G, XS5W (plug side), XS5R (plug side), XS5M	XS2H, XS2G, XS2W (plug side), XS2R (plug side), XS2M
Smartclick Socket Connectors	XS5F, XS5C, XS5W (socket side), XS5R (socket side), XS5P	◎	❍
M12 Socket Connectors	XS2F, XS2C, XS2W (socket side), XS2R (socket side), XS2P	❍	❍

◎: Connected by twisting.
❍: Connected by screwing.
Note: The XS□M and XS□P cannot mate with each other.

XS5W Connectors with Cables, Socket and Plug on Both Cable Ends

Model Number Legend

XS5W-D42□-□81-□□
1 2 3 4 5 6 7 8 9

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. Type
W: Connectors with cables, socket and plug on both cable ends

2. Mating Section Form
D: DC

3. Connector Poles
4: 4 poles

4. Contact Plating
2: 0.4-µm gold plating

5. Cable Connection Direction
1: Straight/straight
2: Right-angle/right-angle
3: Straight (Socket)/right-angle (Plug)
4: Right-angle (Socket)/straight (Plug)
B: Straight/straight (4.7 dia.)

6. Cable Length
A: 0.3 m B: 0.5 m C: 1 m D: 2 m
E: 3 m F: 4 m G: 5 m J: 10 m

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

8. Connectors on One Cable End/Both Ends
1: Connectors on both cable ends

9. Cable Specifications
F: Fire-retardant, robot cable
P: Oil-resistant Polyurethane Cable
SA: Spatter-resistant cable
PR: Oil-resistant polyurethane robot cable

Ordering Information

Cable specifications	Cable length L (m)	Cable diameter (mm)	Straight/straight	Right-angle/ right-angle	UL
			Model	Model	
Fire-retardant, Robot Cable	0.5	6 dia.	**XS5W-D421-B81-F**	—	Yes
	1		**XS5W-D421-C81-F**	—	
	2		**XS5W-D421-D81-F**	**XS5W-D422-D81-F**	
	3		**XS5W-D421-E81-F**	—	
	4		**XS5W-D421-F81-F**	—	
	5		**XS5W-D421-G81-F**	**XS5W-D422-G81-F**	
	10		**XS5W-D421-J81-F**	—	
Oil-resistant polyurethane cable	2		**XS5W-D421-D81-P**	—	—
	5		**XS5W-D421-G81-P**	—	
	10		**XS5W-D421-J81-P**	—	
Spatter-resistant Cable	2	6.6 dia.	**XS5W-D421-D81-SA**	—	—
	5		**XS5W-D421-G81-SA**	—	
Oil-resistant polyurethane robot cable	2	4.7 dia.	**XS5W-D42B-D81-PR**	—	—
	5		**XS5W-D42B-G81-PR**	—	
	10		**XS5W-D42B-J81-PR**	—	

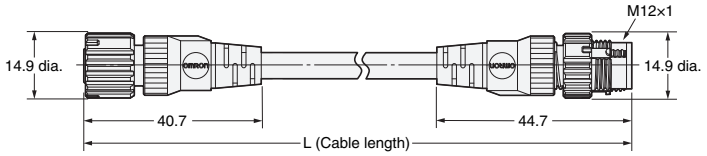
Cable specifications	Cable length L (m)	Cable diameter (mm)	Straight (Socket)/ right-angle (Plug)	Right-angle (Socket)/ straight (Plug)	UL
			Model	Model	
Fire-retardant, Robot Cable	2	6 dia.	**XS5W-D423-D81-F**	**XS5W-D424-D81-F**	Yes
	5		**XS5W-D423-G81-F**	**XS5W-D424-G81-F**	

Note: Ask your OMRON representative about other cable lengths.

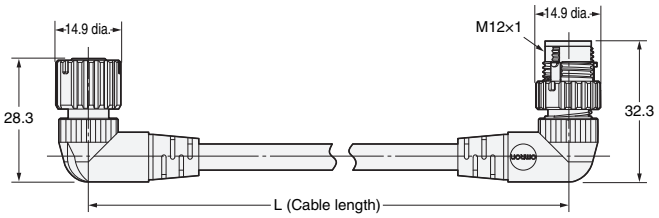
Dimensions

(Unit: mm)

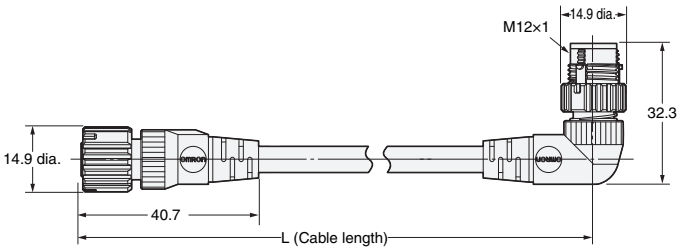
Straight/straight
Fire-retardant, Robot Cable
XS5W-D421-□81-F
Oil-resistant Polyurethane Cable
XS5W-D421-□81-P
Spatter-resistant Cable
XS5W-D421-□81-SA



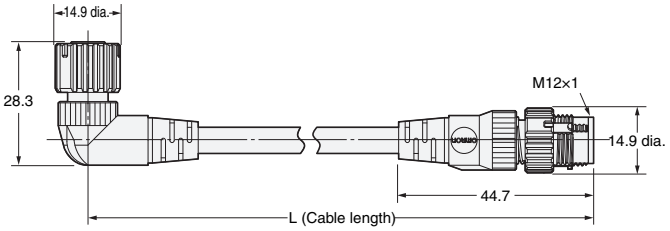
Right-angle/right-angle
Fire-retardant, Robot Cable
XS5W-D422-□81-F



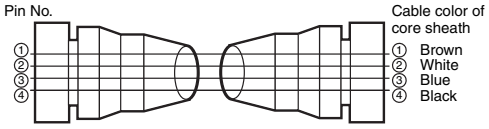
Straight (Socket)/right-angle (Plug)
Fire-retardant, Robot Cable
XS5W-D423-□81-F



Right-angle (Socket)/straight (Plug)
Fire-retardant, Robot Cable
XS5W-D424-□81-F



Wiring Diagram for 4 Cores



Note: Oil-resistant polyurethane cables (XS5W-D42□-□81-P) and spatter-resistant cables (XS5W-D421-□81-SA) have black covers.
Fire-retardant, robot cables (XS5W-D42□-□81-F), oil-resistant (polyurethane) robot cables (XS5W-D42B-□81-PR) have warm gray covers.

XS5F Connectors with Cables, Socket on One Cable End

Model Number Legend

XS5F-D42□-□80-□□
1 2 3 4 5 6 7 8 9

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. Type
F: Connectors with cables
Socket on one cable end

2. Mating Section Form
D: DC

3. Connector Poles
4: 4 poles

4. Contact Plating
2: 0.4-µm gold plating

5. Cable Connection Direction
1: Straight
2: Right-angle
B: Straight (4.7 dia.)
C: Right-angle (4.7 dia.)

6. Cable Length

A: 0.3 m	B: 0.5 m	C: 1 m
D: 2 m	E: 3 m	G: 5 m
H: 7 m	J: 10 m	L: 20 m

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

8. Connectors on One Cable End/ Both Ends
0: One cable end

9. Cable Specifications
F: Fire-retardant, robot cable
P: Oil-resistant polyurethane cable
SA: Spatter-resistant cable
PR: Oil-resistant polyurethane robot cable

Ordering Information

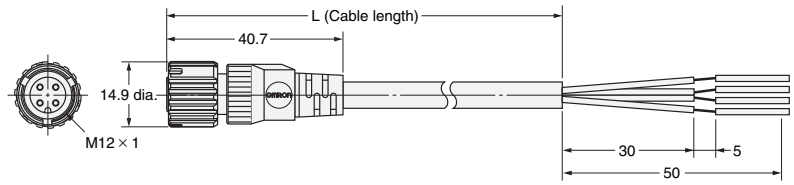
Cable specifications	Cable length L (m)	Cable diameter (mm)	Straight Connectors	Right-angle Connectors	UL
			Model	Model	
Fire-retardant, Robot Cable	1	6 dia.	XS5F-D421-C80-F	XS5F-D422-C80-F	Yes
	2		XS5F-D421-D80-F	XS5F-D422-D80-F	
	3		XS5F-D421-E80-F	XS5F-D422-E80-F	
	5		XS5F-D421-G80-F	XS5F-D422-G80-F	
	10		XS5F-D421-J80-F	XS5F-D422-J80-F	
Oil-resistant polyurethane cable	2		XS5F-D421-D80-P	XS5F-D422-D80-P	—
	5		XS5F-D421-G80-P	XS5F-D422-G80-P	
	10		XS5F-D421-J80-P	XS5F-D422-J80-P	
Spatter-resistant Cable	2	6.6 dia.	XS5F-D421-D80-SA	—	—
	5		XS5F-D421-G80-SA	—	
Oil-resistant polyurethane robot cable	2	4.7 dia.	XS5F-D42B-D80-PR	XS5F-D42C-D80-PR	—
	5		XS5F-D42B-G80-PR	XS5F-D42C-G80-PR	
	10		XS5F-D42B-J80-PR	XS5F-D42C-J80-PR	

Note: Ask your OMRON representative about other cable lengths, and about 2-core cables.

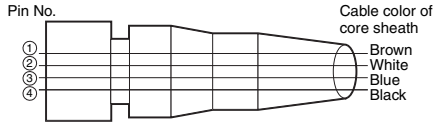
Dimensions

(Unit: mm)

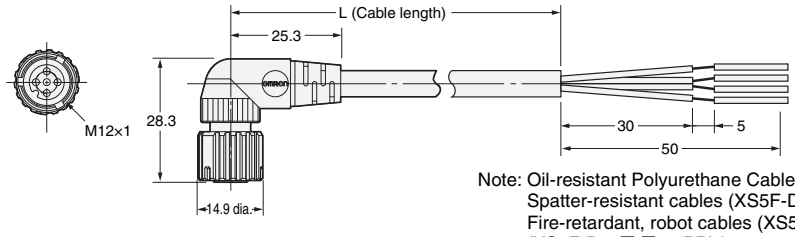
Straight
Fire-retardant, Robot Cable
XS5F-D421-□80-F
Oil-resistant Polyurethane Cable
XS5F-D421-□80-P
Spatter-resistant Cable
XS5F-D421-□80-SA
Oil-resistant Polyurethane Robot Cable
XS5F-D42B-□80-PR



Wiring Diagram for 4 Cores



Right-angle
Fire-retardant, Robot Cable
XS5F-D422-□80-F
Oil-resistant Polyurethane Cable
XS5F-D422-□80-P
Oil-resistant Polyurethane Robot Cable
XS5F-D42C-□80-PR



Note: Oil-resistant Polyurethane Cable(XS5F-D42□-□80-P),
Spatter-resistant cables (XS5F-D421-□80-SA) have black covers.
Fire-retardant, robot cables (XS5F-D42□-□80-F), oil-resistant (polyurethane) robot cables (XS5F-D42□-□80-PR) have warm gray covers.

XS5H Connectors with Cables, Plug on One Cable End

Model Number Legend

XS5H-D42□-□80-□□
1 2 3 4 5 6 7 8 9

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. Type
H: Connectors with cables
Plug on one cable end

2. Mating Section Form
D: DC

3. Connector Poles
4: 4 poles

4. Contact Plating
2: 0.4-µm gold plating

5. Cable Connection Direction
1: Straight
2: Right-angle

6. Cable Length
A: 0.3 m B: 0.5 m C: 1 m
D: 2 m E: 3 m G: 5 m

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

8. Connectors on One Cable End/ Both Ends
0: One cable end

9. Cable Specifications
F: Fire-retardant, robot cable
P: Oil-resistant Polyurethane Cable
SA: Spatter-resistant cable

Ordering Information

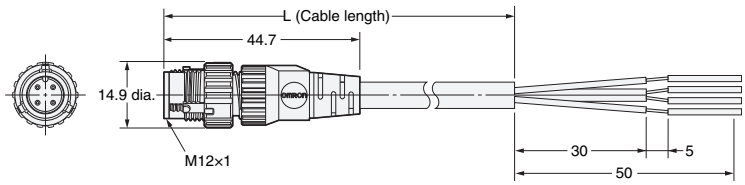
Cable specifications	Cable length L (m)	Cable diameter (mm)	Straight Connectors	Right-angle Connectors	UL
			Model	Model	
Fire-retardant, Robot Cable	0.3	6 dia.	XS5H-D421-A80-F	XS5H-D422-A80-F	Yes
	0.5		XS5H-D421-B80-F	—	
	1		XS5H-D421-C80-F	XS5H-D422-C80-F	
	2		XS5H-D421-D80-F	XS5H-D422-D80-F	
	3		XS5H-D421-E80-F	—	
	5		XS5H-D421-G80-F	XS5H-D422-G80-F	
Oil-resistant polyurethane cable	0.3		XS5H-D421-A80-P	XS5H-D422-A80-P	—
	2		XS5H-D421-D80-P	XS5H-D422-D80-P	
	5		XS5H-D421-G80-P	XS5H-D422-G80-P	
Spatter-resistant Cable	0.3	6.6 dia.	XS5H-D421-A80-SA	—	—
	1		XS5H-D421-C80-SA	—	

Note: Ask your OMRON representative about other cable lengths.

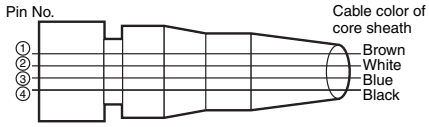
Dimensions

(Unit: mm)

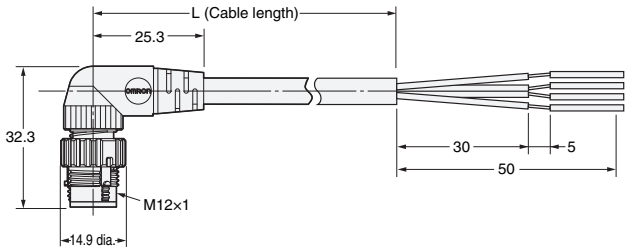
Straight
Fire-retardant, Robot Cable
XS5H-D421-□80-F
Oil-resistant Polyurethane Cable
XS5H-D421-□80-P
Spatter-resistant Cable
XS5H-D421-□80-SA



Wiring Diagram for 4 Cores



Right-angle
Fire-retardant, Robot Cable
XS5H-D422-□80-F
Oil-resistant Polyurethane Cable
XS5H-D422-□80-P



Note: Oil-resistant polyurethane cables (XS5H-D42□-□80-P) and spatter-resistant cables (XS5H-D421-□80-SA) have black covers.
Fire-retardant, robot cables (XS5H-D42□-□80-F) have warm gray covers.

XS5□ Eight-pole Connectors with Cables

Ordering Information

Type	Cable specifications	Cable connection direction	Number of cores	Cable length L (m)	Applicable wire gauge	Model
Socket on one cable end	6.3 mm dia. AWG23 (0.25 mm²) Structure: 0.08 mm/60 wires	Straight	8	2	—	**XS5F-D821-DH0-R**
				5		**XS5F-D821-GH0-R**
				10		**XS5F-D821-JH0-R**
Panel-mounting plug	—	—	—	—	AWG22 to 28	**XS5M-D827-4**

Pins and Cable Lead Colors

	Pin No.							
XS5F cable lead colors	①	②	③	④	⑤	⑥	⑦	⑧
	White	Brown	Green	Yellow	Gray	Pink	Blue	Red

Ratings and Specifications

Rated current	1.5 A
Rated voltage	36 VDC
Contact resistance	40 mΩ max. (at 20 mVDC max. and 100 mA max.)
Insulation resistance	1,000 MΩ min. (at 500 VDC)
Dielectric strength	1,000 VAC for 1 min (leakage current: 1 mA max.)
Degree of protection	IP67 (IEC60529)
Insertion tolerance	50 times
Ambient operating temperature range	–25 to 70°C
Ambient humidity range	20% to 85%

Materials and Finish

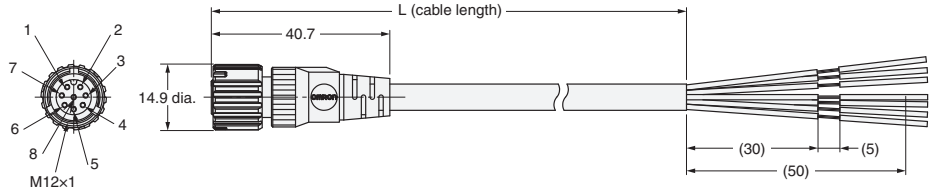
Contacts	Brass/nickel base, 0.4-µm gold plating
Fixture	Nickel plated zinc alloy *1
Body	Nickel plated zinc alloy *2
Nut	Nickel plated brass *2
Fixtures (lock)	Stainless *2
Pin block	PBT resin (UL94V-0), light gray
Cover *1	Soft PBT resin (UL94V-0)
Seal resin *2	Rubber
O-ring *1	

*1. XS5F only.
*2. XS5M only.

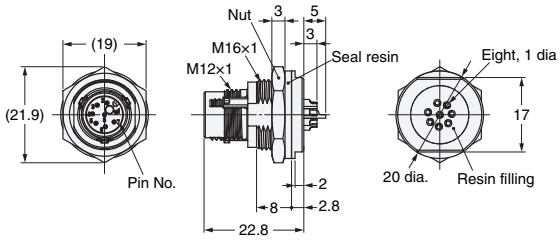
Dimensions

(Unit: mm)

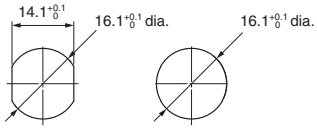
Socket on one cable end
XS5F-D821-□H0-R



Front-locking, Panel-mounting Plug
XS5M-D827-4



Panel Cutout



Panel Cutout
Panel thickness (t): 1 to 4

XS5G Assembly Connector Plugs

Ordering Information

No. of poles	Connection method	Suitable cable (mm)	Core conductor size (mm^2)	Suitable sheath material	Straight Connectors	Right-angle Connectors
					Model	Model
4	IDC	3 to 8 dia.	0.14 to 0.75 *1	PVC, PE, PUR	**XS5G-D418**	—
	Crimping	6 dia. (5 to 6 dia.)	0.18 to 0.3 0.5 to 0.75 *2		**XS5G-D4C1**	—
		4 dia. (4 to 5 dia.)			**XS5G-D4C3**	—
		3 dia. (3 to 4 dia.)			**XS5G-D4C5**	—
	Soldering	6 dia. (5 to 6 dia.)	0.5 max.		**XS5G-D421**	**XS5G-D422**
		4 dia. (4 to 5 dia.)			**XS5G-D423**	**XS5G-D424**
		3 dia. (3 to 4 dia.)			**XS5G-D425**	**XS5G-D426**
	Screw-on	6 dia. (5 to 6 dia.)	0.18 to 0.75		**XS5G-D4S1**	**XS5G-D4S2**
		4 dia. (4 to 5 dia.)			**XS5G-D4S3**	**XS5G-D4S4**
		3 dia. (3 to 4 dia.)			**XS5G-D4S5**	**XS5G-D4S6**
		8 dia. (7 to 8 dia.)			**XS5G-D4S7**	—
		7 dia. (6 to 7 dia.)			**XS5G-D4S9**	—
5	Screw-on	6 dia. (5 to 6 dia.)			**XS5G-D5S1**	—
		4 dia. (4 to 5 dia.)			**XS5G-D5S3**	—
		3 dia. (3 to 4 dia.)			**XS5G-D5S5**	—
		8 dia. (7 to 8 dia.)			**XS5G-D5S7**	—
		7 dia. (6 to 7 dia.)			**XS5G-D5S9**	—

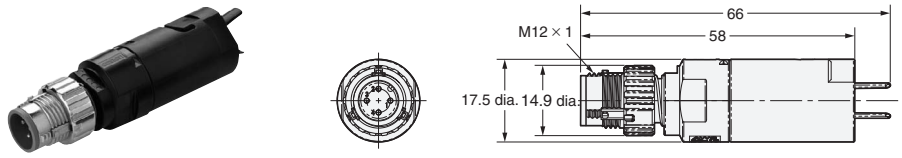
*1. Minimum wire diameter: 0.08 mm, External sheath diameter of wire covering: 0.7 to 2.6 mm, Material of wire covering: PVC and PE
*2. There are two types of contacts.

Note: XS5G Screw-on Plugs cannot be connected to side by side to the CN1 and CN2 connectors of XS2R or XS5R Y-Joint Sockets/Plugs.
Use a cable of mentioning. If you do not use one of these cables, there is a possibility that the performance can't be met.
Ask your OMRON representative about selecting a cable of other than above.

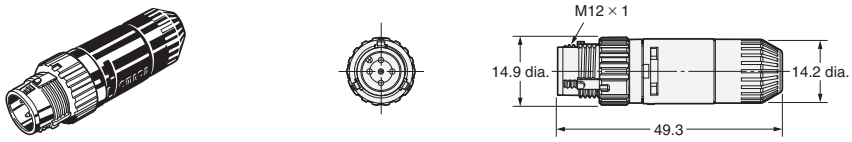
Dimensions

(Unit: mm)

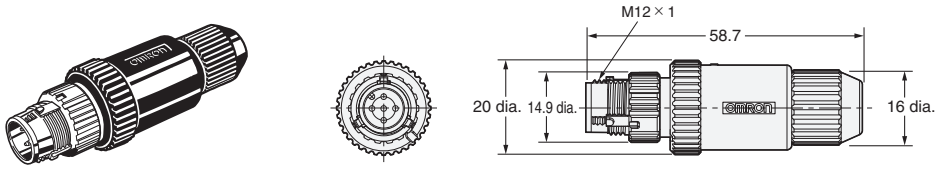
Straight Connectors
XS5G-D418 (IDC Model)



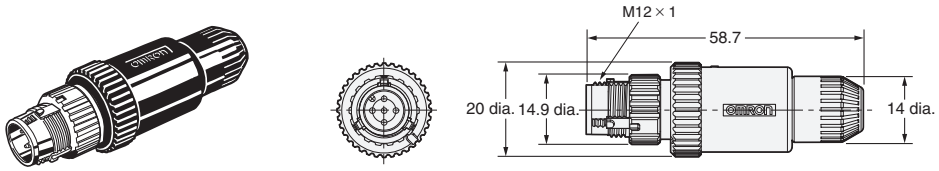
Straight Connectors
XS5G-D4C□ (Crimping Model)
XS5G-D42□ (Soldering Model)



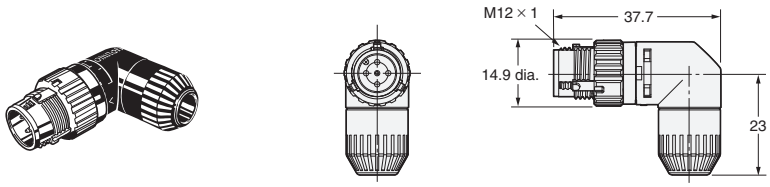
Straight Connectors
XS5G-D□S□ (Screw-on Connectors, Suitable Cable Dia.: 7 or 8 mm)



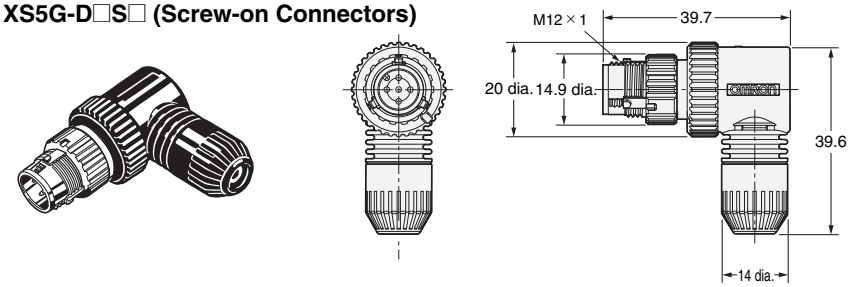
Straight Connectors
XS5G-D□S□ (Screw-on Connectors, Suitable Cable Dia.: 3, 4, or 6 mm)



Right-angle Connectors
XS5G-D42□ (Soldering Model)



Right-angle Connectors
XS5G-D□S□ (Screw-on Connectors)



XS5U (Crimping Pin for XS5G)

Ordering Information

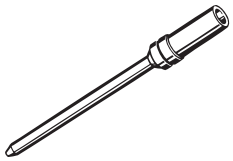
Suitable core size (mm^2)	Model
0.18 to 0.3	**XS5U-3121**
0.5 to 0.75	**XS5U-3122**

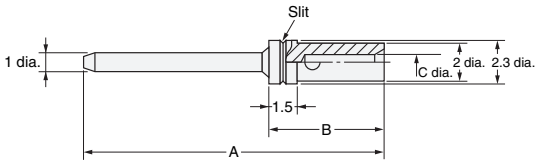
Dimensions

(Unit: mm)

XS5U-312□

* A special tool must be used for crimping. For details, refer to page 21.





Dimensions

Model	Suitable core size (mm^2)	Dimension (mm)			No. of slits
		A	B	C	
XS5U-3121	0.18 to 0.3	22.6	6.1	0.8	1
XS5U-3122	0.5 to 0.75	22.7	6.2	1.3	0

XS5C Assembly Connector Sockets

Ordering Information

No. of poles	Connection method	Suitable cable (mm)	Core conductor size (mm^2)	Suitable sheath material	Straight Connectors	Right-angle Connectors
					Model	Model
4	IDC	3 to 8 dia.	0.14 to 0.75 *1	PVC, PE, PUR	**XS5C-D418**	—
	Crimping	6 dia. (5 to 6 dia.)	0.18 to 0.3 0.5 to 0.75 *2		**XS5C-D4C1**	**XS5C-D4C2**
		4 dia. (4 to 5 dia.)			**XS5C-D4C3**	**XS5C-D4C4**
		3 dia. (3 to 4 dia.)			**XS5C-D4C5**	**XS5C-D4C6**
	Soldering	6 dia. (5 to 6 dia.)	0.5 max.		**XS5C-D421**	**XS5C-D422**
		4 dia. (4 to 5 dia.)			**XS5C-D423**	**XS5C-D424**
		3 dia. (3 to 4 dia.)			**XS5C-D425**	**XS5C-D426**
	Screw-on	6 dia. (5 to 6 dia.)	0.18 to 0.75		**XS5C-D4S1**	**XS5C-D4S2**
		4 dia. (4 to 5 dia.)			**XS5C-D4S3**	**XS5C-D4S4**
		3 dia. (3 to 4 dia.)			**XS5C-D4S5**	**XS5C-D4S6**
		8 dia. (7 to 8 dia.)			**XS5C-D4S7**	—
		7 dia. (6 to 7 dia.)			**XS5C-D4S9**	—
5	Screw-on	6 dia. (5 to 6 dia.)			**XS5C-D5S1**	—
		4 dia. (4 to 5 dia.)			**XS5C-D5S3**	—
		3 dia. (3 to 4 dia.)			**XS5C-D5S5**	—
		8 dia. (7 to 8 dia.)			**XS5C-D5S7**	—
		7 dia. (6 to 7 dia.)			**XS5C-D5S9**	—

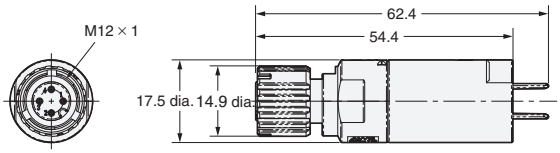
*1. Minimum wire diameter: 0.08 mm, External sheath diameter of wire covering: 0.7 to 2.6 mm, Material of wire covering: PVC and PE
*2. There are two types of contacts.

Note: Use a cable of mentioning. If you do not use one of these cables, there is a possibility that the performance can't be met.
Ask your OMRON representative about selecting a cable of other than above.

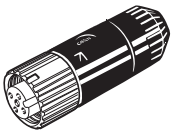
Dimensions

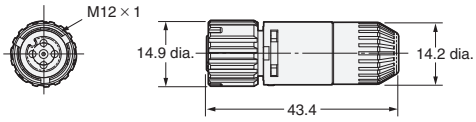
(Unit: mm)

Straight Connectors
XS5C-D418 (IDC Model)

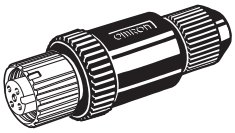


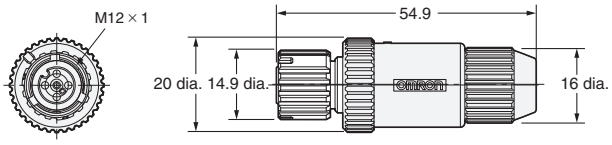
Straight Connectors
XS5C-D4C□ (Crimping Model)
XS5C-D42□ (Soldering Model)



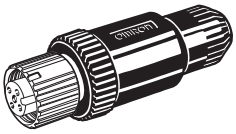


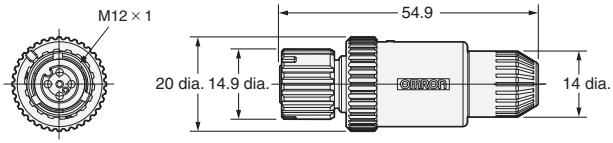
Straight Connectors
XS5C-D□S□ (Screw-on Connectors, Suitable Cable Dia.: 7 or 8 mm)



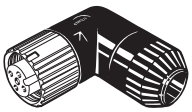


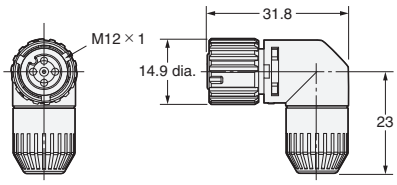
Straight Connectors
XS5C-D□S□ (Screw-on Connectors, Suitable Cable Dia.: 3, 4, or 6 mm)



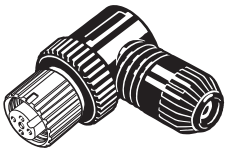


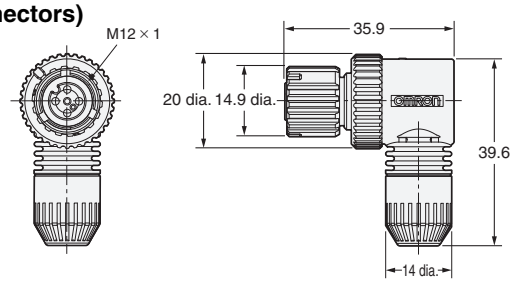
Right-angle Connectors
XS5C-D4C□ (Crimping Model)
XS5C-D42□ (Soldering Model)





Right-angle Connectors
XS5C-D□S□ (Screw-on Connectors)





XS5U (Crimping Pin for XS5C)

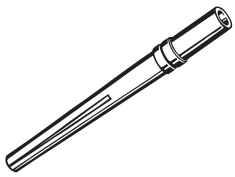
Ordering Information

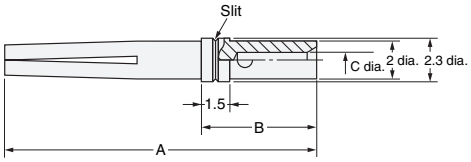
Suitable core size (mm^2)	Model
0.18 to 0.3	**XS5U-2221**
0.5 to 0.75	**XS5U-2222**

Dimensions

(Unit: mm)

XS5U-222□





* A special tool must be used for crimping. For details, refer to page 21.

Dimensions

Model	Suitable core size (mm^2)	Dimension (mm)			No. of slits
		A	B	C	
XS5U-2221	0.18 to 0.3	16.7	6.1	0.8	1
XS5U-2222	0.5 to 0.75	16.8	6.2	1.3	0

XS5R Y-Joint Plug/Socket Connectors

Ordering Information

Cable	Connector	Cable length (m)	Model
With cable	Connectors on both cable ends	0.5	**XS5R-D426-B11-F**
		1	**XS5R-D426-C11-F**
		2	**XS5R-D426-D11-F**
		3	**XS5R-D426-E11-F**
	Connector on one cable end	2	**XS5R-D426-D10-F**
		5	**XS5R-D426-G10-F**

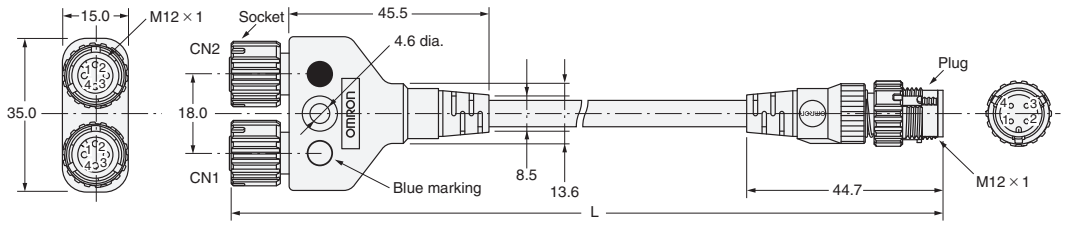
Cable	Connector	Cable length (m)	Model
Without cable	Connectors on both cable ends	—	**XS5R-D426-1**
			XS5R-D426-5

Note 1. Ask your OMRON representative about other specifications.
2. XS2G/XS5G Assembled Connectors with screw-on connections cannot be connected to both CN1 and CN2 at the same time.

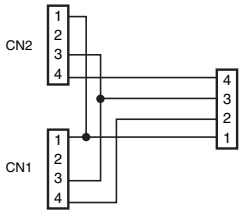
Dimensions

(Unit: mm)

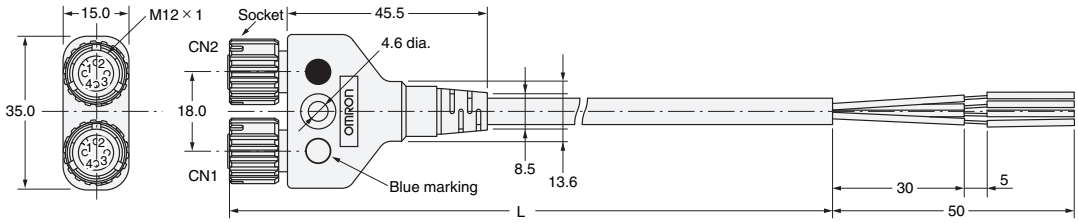
Connectors on Both Cable Ends (Y-Joint Plug/Socket)
XS5R-D426-□11-F



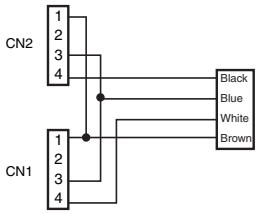
Wiring Diagram



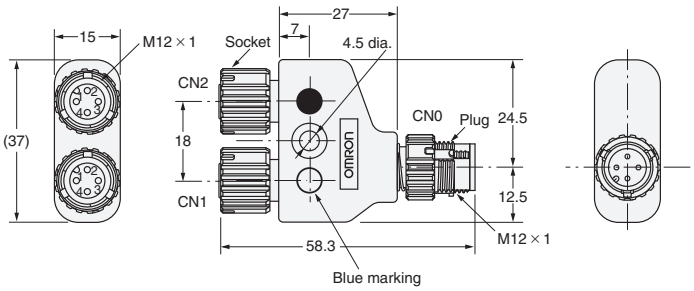
Connectors on One Cable End (Y-Joint Socket)
XS5R-D426-□10-F



Wiring Diagram

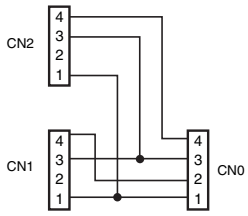


Connectors on Both Cable Ends (Y-Joint Plug/Socket)
XS5R-D426-□

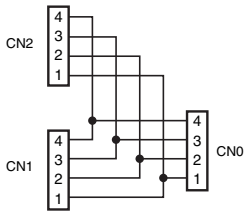


Wiring Diagram

XS5R-D426-1



XS5R-D426-5



XS5P Panel-mounting Sockets

Ordering Information

Type	No. of poles	Lock	Wire length (m)	Model
With wire	4	Rear lock	0.5	**XS5P-D426-5**
		Front lock		**XS5P-D427-5**

Type	No. of poles	Lock*	Applicable wires	Model
Solder cup pins	4	Rear lock	AWG20 to AWG28	**XS5P-D426-4**
		Front lock		**XS5P-D427-4**
	5	Rear lock		**XS5P-D526-4**
		Front lock		**XS5P-D527-4**

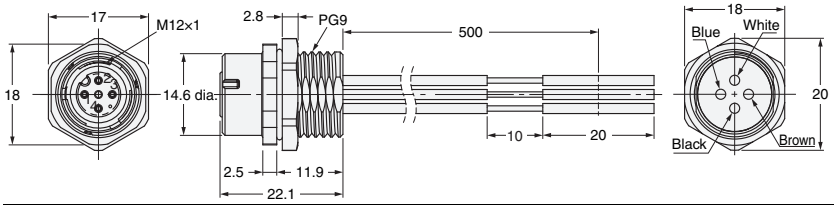
*Install the rear lock type from the front of the panel and tighten the nut from the rear.
Install the front lock type from the rear of the panel and tighten the nut from the front.

Dimensions

(Unit: mm)

With wire

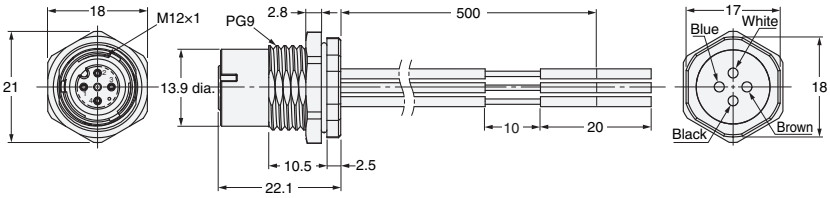
Rear lock
XS5P-D426-5



Wiring

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

Front lock
XS5P-D427-5

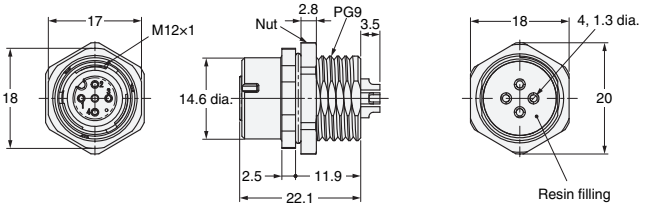


Wire Specifications

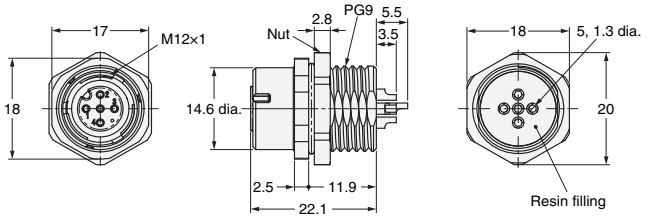
Specification		UL1007
Nominal size		AWG20
Configuration	Number of wires	21
	Wire diameter	0.18
	Standard outer diameter	1.8

Solder cup pins

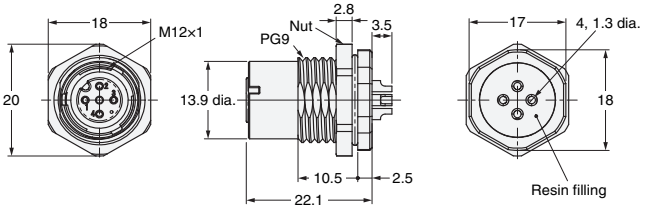
Rear lock
XS5P-D426-4



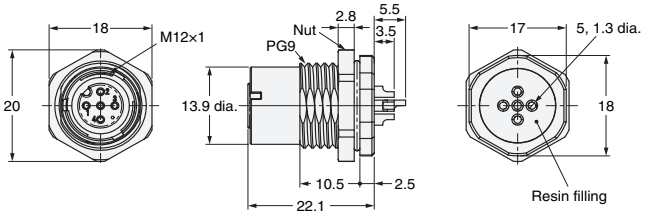
Rear lock
XS5P-D526-4



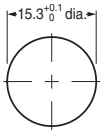
Front lock
XS5P-D427-4



Front lock
XS5P-D527-4



Panel Cutout



Panel Cutout Dimension
Panel thickness = 1 to 4 mm

Note 1. The panel cutout dimension is the same for Front Locking and Rear Locking Sockets.
2. Rotational positioning is not possible for connector rotation.

XS5M Panel-mounting Plugs

Ordering Information

Type	No. of poles	Lock	Wire length (m)	Model
With wire	4	Rear lock	0.5	**XS5M-D426-5**
		Front lock		**XS5M-D427-5**

Type	No. of poles	Lock*	Applicable wires	Model
Solder cup pins	4	Rear lock	AWG20 to AWG28	**XS5M-D426-4**
		Front lock		**XS5M-D427-4**
	5	Rear lock		**XS5M-D526-4**
		Front lock		**XS5M-D527-4**

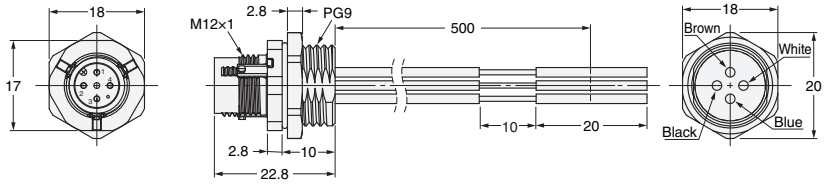
*Install the rear lock type from the front of the panel and tighten the nut from the rear.
Install the front lock type from the rear of the panel and tighten the nut from the front.

Dimensions

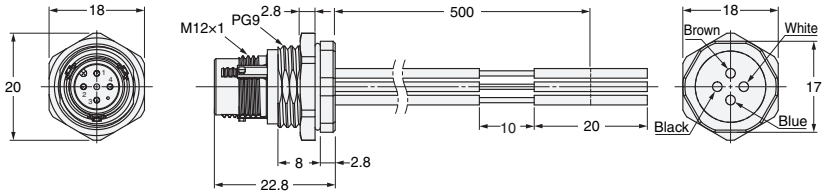
(Unit: mm)

With wire

Rear lock
XS5M-D426-5



Front lock
XS5M-D427-5



Wiring

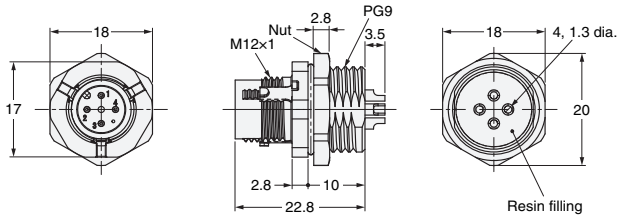
Pin No.	Color
1	Brown
2	White
3	Blue
4	Black

Wire Specifications

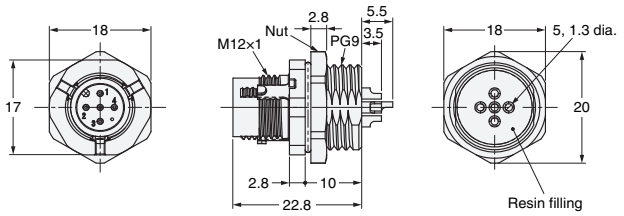
Specification		UL1007
Nominal size		AWG20
Configuration	Number of wires	21
	Wire diameter	0.18
	Standard outer diameter	1.8

Solder cup pins

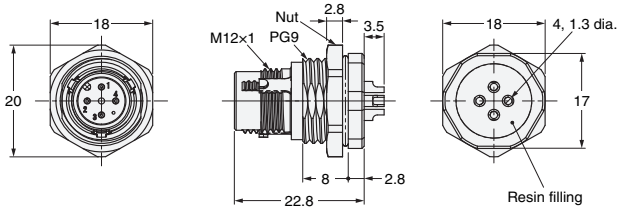
Rear lock
XS5M-D426-4



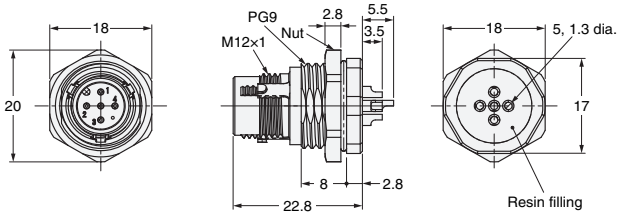
Rear lock
XS5M-D526-4



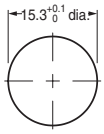
Front lock
XS5M-D427-4



Front lock
XS5M-D527-4



Panel Cutout



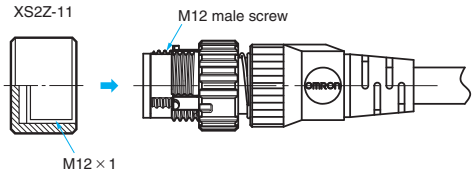
Panel Cutout Dimension
Panel thickness = 1 to 4 mm

Note 1. The panel cutout dimension is the same for Front Locking and Rear Locking Sockets.
2. Rotational positioning is not possible for connector rotation.

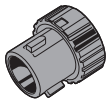
Connector Covers

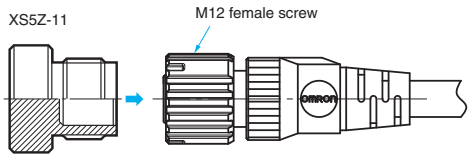
Waterproof Covers

XS2Z-11



XS5Z-11





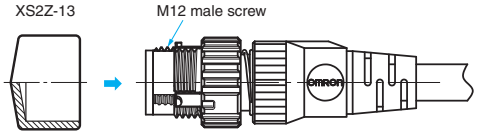
Application Example: XS2Z-11

The Waterproof Cover ensures IP67. When mounting the Water-resistive Cover to a Connector, be sure to apply a torque range between 0.39 and 0.49 N·m to tighten the Water-resistive Cover.
XS5Z-11 is Smartclick mechanism. There's no need to keep track of locking torque.

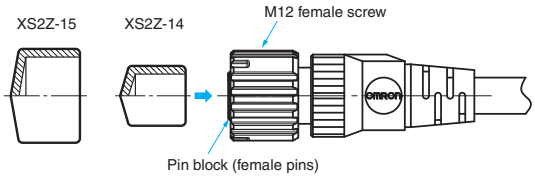
Model	Material	Suitable connector	
		Model	Mounting portion
XS2Z-11	Brass/nickel plated	XS5G/XS5H/XS5M/XS5R/XS5W/XS2G/XS2H/XS2M/XS2R/XS2W	M12 male screw
XS5Z-11	PBT	XS5C/XS5F/XS5P/XS5R/XS5W/XW3D	M12 female screw

Dust Covers

XS2Z-13



XS2Z-15/XS2Z-14



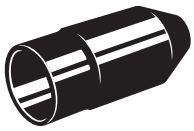
Application Example: XS2Z-13

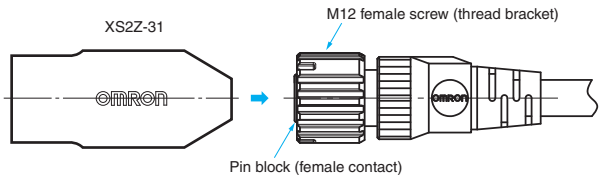
The Dust Cover is for dust prevention and does not ensure IP67 degree of protection.
When mounting the Dust Cover to a Connector, be sure to press the Dust Cover onto the Connector until the Connector is fully inserted into the Dust Cover.

Model	Material	Suitable connector	
		Model	Mounting portion
XS2Z-13	Rubber/black	XS5G/XS5H/XS5M/XS5R/XS5W/XS2G/XS2H/XS2M/XS2R	M12 male screw
XS2Z-14		XS5C/XS5F/XS5P/XS5R/XS5W/XS2C/XS2F/XS2P/XS2R/XS2W/XW3B/XW3D	Pin block (female pins)
XS2Z-15			M12 female screw

Sputter Protective Cover

XS2Z-31





Application Example: XS2Z-31

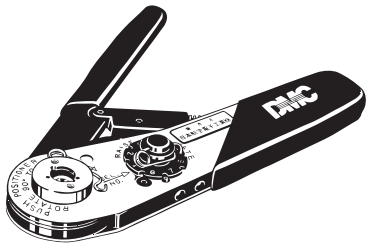
The Sputter Protective Cover protects the connector from weld sputter.
Make sure it covers the entire connector.

Model	Material	Suitable connector
XS2Z-31	Silicone rubber/black	XS5F/XS5H/XS5W/XS2F/XS2H/XS2W

Tools

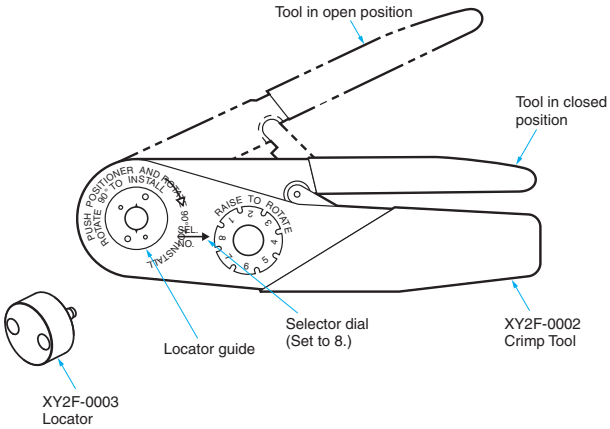
Crimp Tool

XY2F-0002



Locator

XY2F-0003



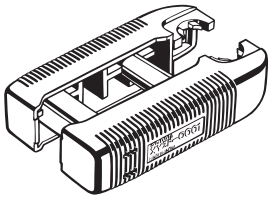
Use the Crimp Tool to crimp a cable core to the XS5U or XS2U Crimping Pin used with the XS□C or XS□G Crimping Connector.

- The XY2F-0002 Crimp Tool is DMC's AFM8 (M22520/2-01).
- Mount the XY2F-0003 Locator (sold separately) to the locator guide of the Crimp Tool with a screw provided with the XY2F-0003 Locator.

Pin-block Extraction Tool

XY2F-0001

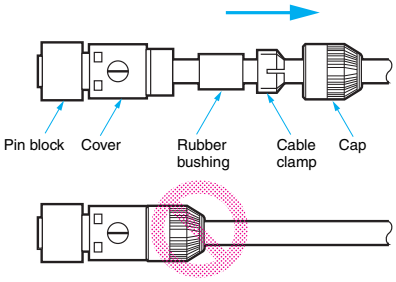
Use this tool to extract a Pin Block from the covers in order to make wiring changes or corrections after the cover has been mounted to the pin block for Connector Assemblies (XS□C/XS□G, soldering/crimping).



Extraction Procedure

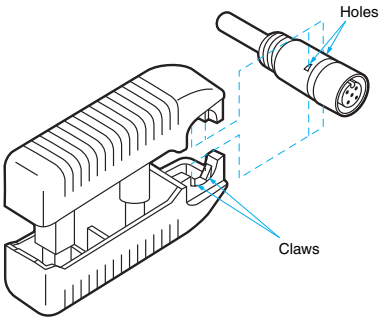
(1) Disconnecting Components

- Disconnect all components on the cap side from the cover.

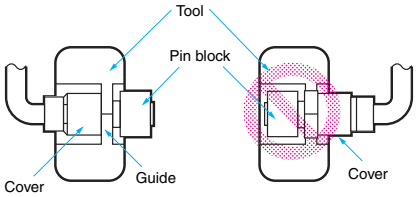


(2) Extracting Pin Block

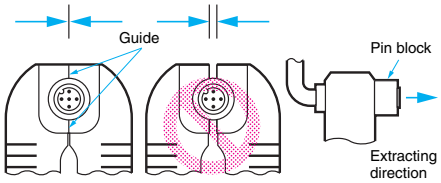
- Insert the claws of the Tool into the four holes of the cover.



- Make sure that the pin block is outside the Tool.



- Press the Tool so that the guides of the Tool are in close contact. Then pull the pin block straight.

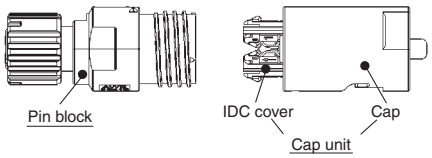


Precautions for Correct Use

- The pin block must not be extracted from the same Connector more than 3 times, otherwise the proper degree of protection of the pin block or Connector will not be maintained.

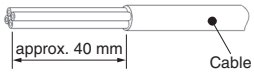
Assembly Procedure for XS5C/XS5G (IDC models) Connector Assemblies

(1) Preparations (Make sure they are all at hand.)



(2) Dressing the cable end

- Peel covering of a cable.



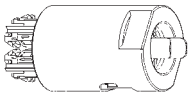
External diameter of applicable cable	Core conductor size
3 to 8 mm	0.14 to 0.75 mm^2 / AWG26 to 18

(3) Choose the waterproof bushing

- Choose the waterproof bushing type according to the cable size.

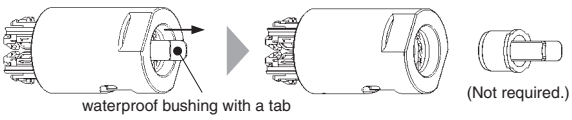
External diameter of cable: In case of 3 to 5 mm

Use the cap unit in the delivery state.



External diameter of cable: In case of 5 to 8 mm

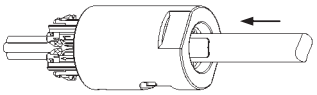
When using, pick tab both sides of the waterproof bushing with a tab and pull it out in the direction of an arrow.



Note: When it isn't necessary to pull out bushing, do not pull a tab or pull out waterproof bushing carelessly. Do not insert the pulled-out bushing again.

(4) Cable insertion

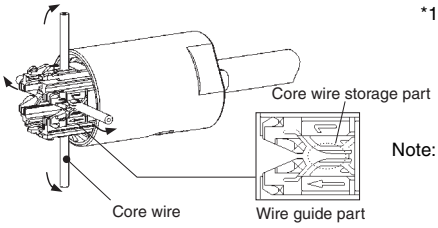
- Insert a cable in the cap unit.



*Insert fully until a cable doesn't enter any more.
*It's shown by a figure in case of cable diameter 3 to 5 mm.

(5) Wiring

- Confirm the terminal number indication*1 of a IDC (Insulation Displacement Contact) cover, insert a core wire in each wire guide according to the terminal number and push in to the lowermost part of a core wire storage part.

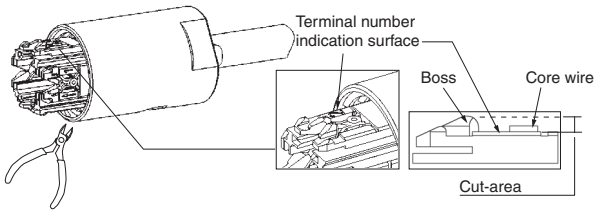


*1. Terminal No.1: Brown
Terminal No.2: White
Terminal No.3: Blue
Terminal No.4: Black

Note: There is a difference in a storing state depending on core wire diameter.

(6) Processing the core wire end

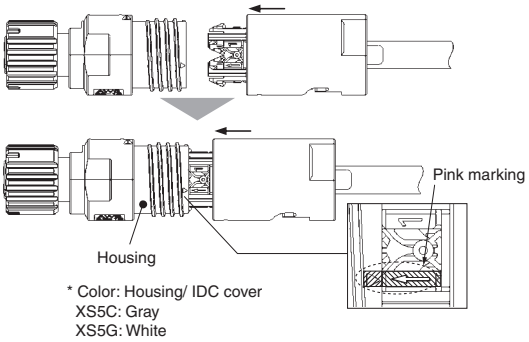
- Cut the end part of each core wire with nippers. Cutting the core wire end in the range of cut-area of figure.



Note: Please be careful not to cut the boss.

(7) Assembling the Pin block

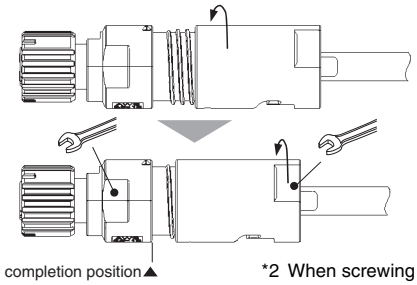
- Insert the cap unit core wire end processing has completed in a pin block.
- Use a △ mark of a housing and an arrow of a IDC cover, as a guideline of alignment. The location of the arrow is the side of the terminal No.1.



Note: Confirm that the color of the housing and the IDC cover is same before insertion.

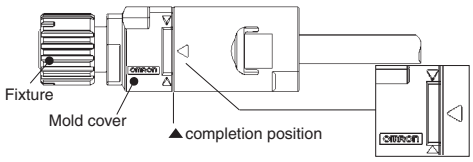
(8) Tightening up the cap

- After inserting the cap unit and tightening a screw up lightly by hand, screw up the cap by a tool of a spanner or wrench (size 15 mm).*2



*2 When screwing up the cap by large size tool, it may cause damage.

- When a gap between a mold cover of pin block and a cap disappeared assembly and wire connection has completed.



Note 1. When the operation has completed, △ mark of cap comes into the square of the indicator formed into a mold cover (▷▭◁), so also use it as guideline to know to complete.
2. Avoid tightening a cap up beyond the completion position. It may cause damage.

(9) Final checking

- When the connector has been assembled, make sure the line insulation is as specified.

Repair work procedure

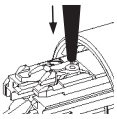
Cap unit removal

- When releasing wire connection, remove the cap unit in the opposite procedure of assembly work. [from (8) to (7)]

Note 1. The core wire remain connected to the IDC connection part rarely. In that case, remove core wire end part to the vertical direction by tweezers etc.
Do not touch the IDC contact directly at that time.
2. When IDC cover was left on the housing side, remove it by pulling a cable. In case IDC cover has been removed by holding strongly and pulling, it may cause damage.

Cable removal

- When removing the cable from the cap unit, pull the cable to the opposite direction of assembly work procedure (4). When tip of the core wire end has been pushed lightly into the IDC cover by tweezers etc, cable removal becomes easy.



Repair work

- When connecting the wire again, do assembly (repair work) according to assembling procedure from (1) to (8).

Note 1. In case of repair, use a cable of the same diameter and a core wire of the same diameter.
The number of times of repair wire connection is maximum 10 times.
2. When doing a repair, work after enough removing the foreign substance and moisture adhering to a connector.
Be careful so that the foreign substance and moisture do not enter the wire connection part.
It may cause short-circuit etc.

Assembly Procedure for XS5C/XS5G (Crimping/Soldering/Screw-on models) Connector Assemblies

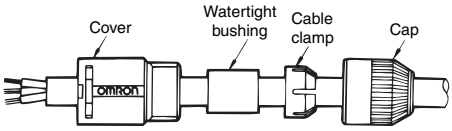
(1) Connector and Cable Diameters

- Connectors for 8, 7, 6, 4, and 3 mm diameter Cables (i.e., Cables that are 7 to 8, 6 to 7, 5 to 6, 4 to 5, and 3 to 4 mm in diameter respectively) are available.
  When assembling a Connector used with a cable, make sure that the external diameter of the Connector is suited to that of the cable.
- A waterproof bushing for 6/7 mm diameter Cable has no stripe, that for 8/4 mm diameter Cable has a single stripe, and that for 3 mm diameter Cable has two stripes.

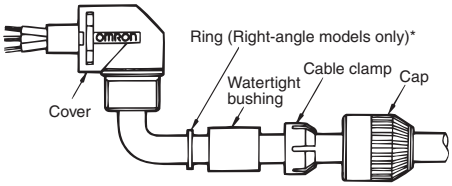
(2) Component Insertion

Crimping/Soldering Connectors

Straight Connectors



(Right-angle Model)

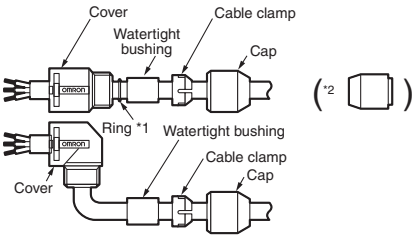


*A ring is not required for Screw-on Connectors.

- As shown in the above illustration, connect the above components to the Cable with its end processed.

Screw-on Connectors

Confirm that you have all of the required parts.

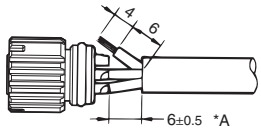


Insulation caps and insulation tubes are included with 5-pole Connectors (XS5C-D5S□ and XS5G-D5S□).

*1. Rings are not required with 7-mm and 8-mm cables.
*2. Insert the waterproof bushing for 7-mm and 8-mm cables in the direction shown in the diagram.

(3) Wiring (Dressing the Cable Ends)

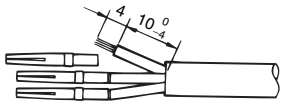
Soldering Connectors



- Strip 10mm of the Cable sheath and 4 mm of each core.
- Before soldering cores and solder cup pins together, solder-coat each of them.
- The following conditions are recommended for soldering each solder cup pin.
  Soldering temperature: 350±5°C
  Soldering period: 3±1 s
- The length marked *A should be 6.5 mm max., otherwise the proper degree of protection of the connector will not be maintained.

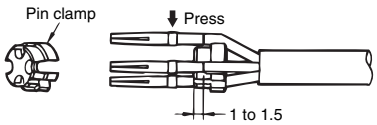
Crimping Connectors

Crimping



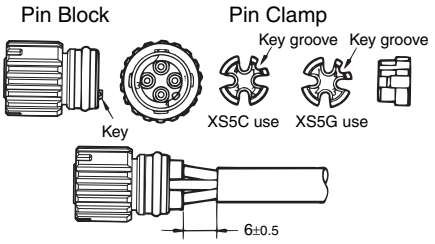
- Strip 14 mm of the Cable sheath and 4 mm of each core.
- Make sure that each core is not damaged and its end strands are not spread out.
- Mount the XY2F-0003 Locator to XY2F-0002 Crimp Tool, both of which are sold separately, and set the selector dial of the Crimp Tool to 8.
- After mounting the crimping pins to the Locator, fully insert the cores to the crimping pins.
- Squeeze the handle of the Crimp Tool to press-fit the cores to the crimping pins.
  (Squeeze the handle firmly until the handle automatically returns to the release position.)

Wiring



- After press-fitting the cores to the pins, insert the pins into the pin clamp as shown in the illustration. Then make sure that the lead colors correspond to the pin clamp numbers that are identical to the connector pin numbers.

Insertion

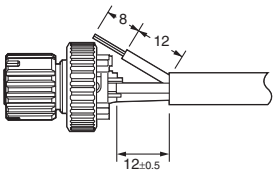


- Tentatively insert the pins to the pin block holes so that the key on the pin block will coincide with the key groove on the pin clamp. Then insert the cable along with the pin clamp.

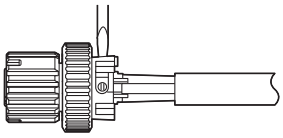
Screw-on Connectors

Dressing the Cable End

- **Four-pole Connectors**

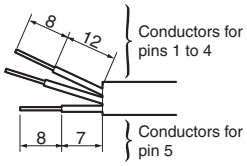


- Loosen the screws on pins 1 to 4 and insert the cores according to the pin numbers.

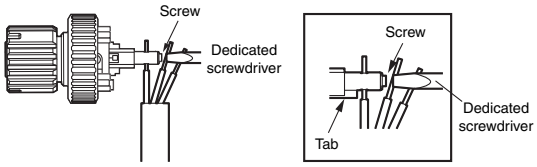


- Use the dedicated Screwdriver (XW4Z-00B)* and tighten the screws securely so that the cores do not pull out. (0.15 to 0.2 N·m)

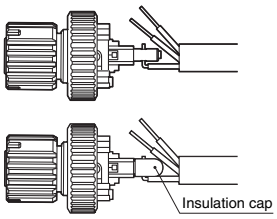
- **Five-pole Connectors**
  - Strip the cable sheath for a total of 15 mm and strip the core covering for 8 mm for the core to connect to pin 5.



- Connect the core to pin 5 (in the center) first.
- Insert the core from the side of the hold with the tab and tighten the screw securely (tightening torque: Pins 1 to 4: 0.15 to 0.2 N·m, Pin 5: 0.03 to 0.05 N·m), and then cut off the excess wire with wire cutters.



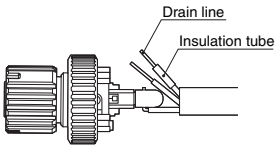
- Bend the cable as shown below, attached the enclosed insulation cap, and then strip the other cores.



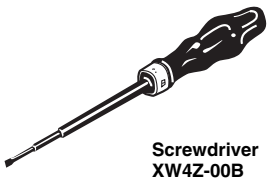
- Connect the cores to pins 1 to 4.

Connecting Shielded Cables to Five-pole Connectors

- Place the insulation tub on the drain line of the shield and connect it to the terminal.
- Tighten the screw and then check visually to see if there is insulation between the cores.

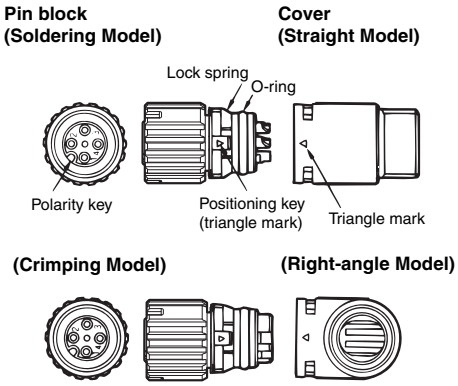


*When tightening the screws, use the dedicated XW4Z-00B Screwdriver that matches with the screw-slot dimensions.



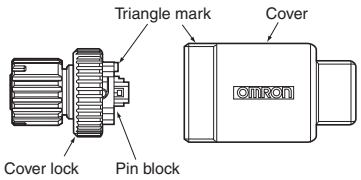
Screwdriver
XW4Z-00B

(4) Inserting Pin Block



- Mount the cover to the pin block so that the triangle mark on the pin block will coincide with the triangle mark on the cover.
- If the cover is used for a Right-angle model, the relationship between the position of the polarity key on the engaged side and cable connection direction will be determined by the direction in which the positioning key is inserted into the cover, which can be rotated by 90°.
- Fully insert the positioning key until the positioning key is hidden by the casing.

Pin block
(Screw-on Connectors)

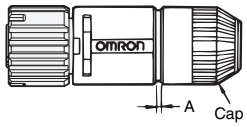


- Align the triangular marks on the pin block and cover and insert the pin block into the cover.
- Press them together firmly until the pin block does not come out of the cover. (0.39 to 0.49 N·m)

(5) Mounting Cap

- After mounting the cover to the pin block and the cover snaps into place, tighten the cap securely by hand (0.39 to 0.49 N·m)

Note: If the cap is not tighten securely enough, the degree of protection (IP67) may not be maintained or vibration may cause the cap to become loose. Do not tighten the cap with pliers or similar tools; they may damage the cap.



- After fully tightening the cap, length A should be approximately one of the following according to the cable external diameter and the Connector model. (Use these as a guide.)

External diameter of applicable cable	Cable external diameter (mm)			
	6 mm	5 mm	4 mm	3 mm
For 6-mm-dia. cable	1	0	—	—
For 4-mm-dia. cable	—	2	1	—
For 3-mm-dia. cable	—	—	2	1

(6) After Assembly

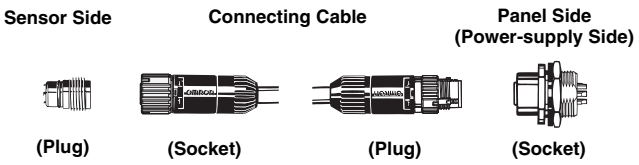
- Confirm the insulation between cores after completing assembly.

Recommended Cables

When connecting a commercially available cable to a connector assembly, use a cable with an outside diameter of 3 to 6 mm and core conductor sizes of 0.18 to 0.75 mm^2 for crimping connectors and 0.5 mm^2 maximum for soldering connectors.

Connector Arrangement

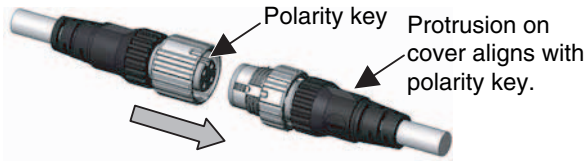
For safety, when constructing a connection system between a Sensor and panel with a connector, make sure that the connector plug is on the Sensor side and the connector socket is on the panel side (i.e., the female pins are located on the power-supply side).



Connector Connection Procedure

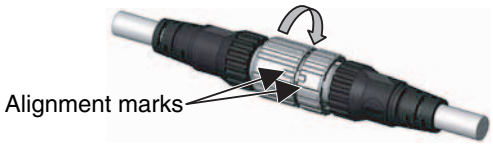
1. Connecting the XS5 Plug and Socket

- Align the projection on the plug cover with the polarity key on the socket, then insert the plug all the way in.



- Hold the knurled socket grip, then insert the projection on the plug into the groove of the socket.

- Turn the knurled grips of the socket clockwise approximately 45 degrees in respect to the plug. A click will indicate that the Connectors are locked. The locking condition can also be confirmed by the alignment marks on the plug and socket.



2. Connecting the XS5 and XS2

- Align the projection on the plug cover with the polarity key on the socket, then insert the plug all the way in.
- In the same way as when connecting two XS2 Connectors, screw the knurled grip in the clockwise direction.
- Use your fingers to tighten the Connectors sufficiently.

Safety Precautions

Definitions of Precautions

Precautions for Safe Use	These refer to actions that should be performed or refrained from in order to ensure safe product usage.
Precautions for Correct Use	These refer to actions that should be performed or refrained from in order to prevent product breakage, malfunctioning, and negative effects to performance and functionality.

Precautions for Safe Use

Degree of Protection

Do not use these products if their protective structures have deteriorated, such as swelling or breakage of housing and sealing components.
If products with deteriorated protective structures continue to be used, breakage or fire damage, etc., may occur.

Connector Connection and Disconnection

- When connecting or disconnecting Connectors, be sure to hold the Connectors by hand.
- Do not hold the cable when disconnecting Connectors. Use after confirming the direction of the polarity key groove.
- Do not touch wiring with wet hands. Doing so may result in malfunction or breakage when the device is turned on.
- When mating Connectors, be sure to insert the plug all the way to the back of the socket before attempting to lock the Connectors.
  After operating the lock, always confirm that the Connector is connected.
- Do not use tools of any sort to mate the Connectors. Always use your hands.
  Pliers or other tools may damage the Connectors.
- When replacing the Connector, confirm that no foreign substances such as liquids or cutting oils are adhered to the connection surface of the Connector before connecting.
- When mating the Connectors to XS2 or other M12 Connectors, tighten the thread bracket by hand to a torque of 0.39 to 0.49 N·m.

Precautions for Correct Use

- Do not use the Connectors in an atmosphere or environment that exceeds the specifications.
- Do not perform wiring while power is flowing. Doing so may result in electrical shock or device breakage.
- Do not use the Connectors in an environment where corrosive gases or high temperature/high humidity are present. Doing so may result in malfunctions such as connection/contact failures and corrosion.
- Do not pull excessively on the Connectors or cables.
- Do not step on or place any objects on the Connectors. Doing so may damage the Connectors.
- Install the Connectors in a location where they will not be stepped on, to prevent disconnection of the cables or damage to the Connectors. If the Connectors or cables must be installed where they might be stepped on, protect them with covers.
- If sensors or switches are not attached during installation, or if plug connectors are not connected, protect the mating surface of the Connector with a XS5Z-11 or XS2Z-11 Waterproof Cover or XS2Z-13/14/15 Dust Cover.

Wiring

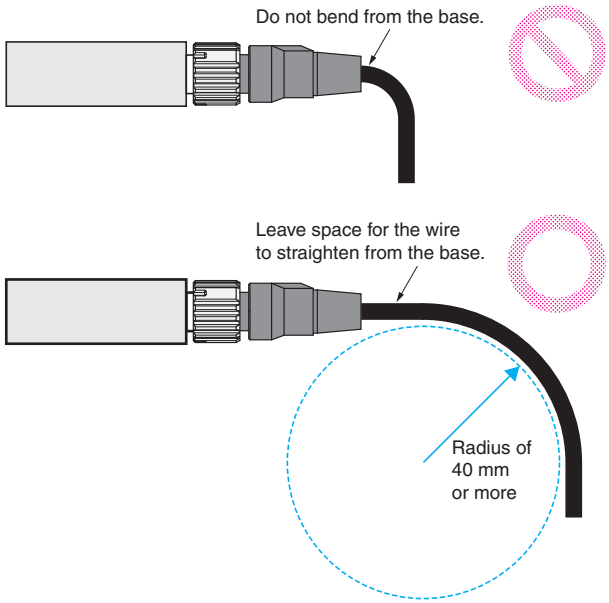
- Do not perform wiring in environments where the cable ends may be exposed to liquids such as water or cutting oils.
- Follow the wiring diagrams when wiring the cables. When using Sensors or Limit Switches, confirm whether connections are possible.
- Lay the cables so that external force is not applied to the Connectors. Otherwise, the degree of protection may not be achieved.

Degree of Protection (IP67)

- The degree of protection of Connectors (IP67) is not for a fully watertight structure. Do not use the Connectors underwater.

Setup

- Do not install the Connectors or cables in any way that would place a load directly on the mating section or cable connections.
  Doing so can damage the Connectors or break the wires inside the cables.
- Any bends made must have a minimum radius of 40 mm.



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- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits,General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.

Как с нами связаться

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