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Industrial Ethernet Cables XS5/XS6

Cables and Connectors for EtherCAT® and Other Industrial Ethernet Networks

CAT6a Ethernet patch cables

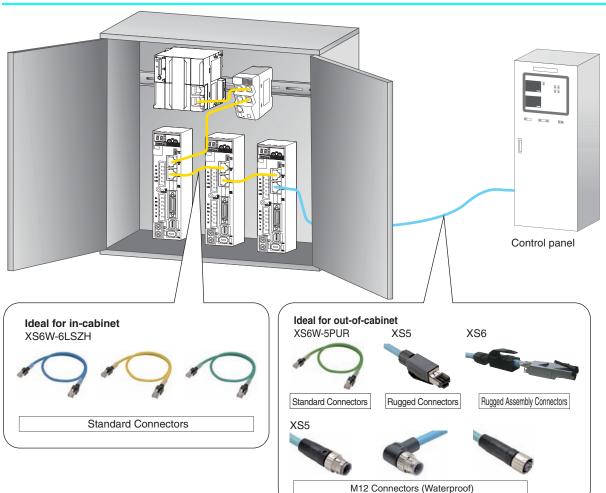
- For in-cabinet use
- LSZH with standard RJ45 plugs

CAT5e Ethernet patch cables

- For out-of-cabinet use
- PUR with standard RJ45 plugs
- PVC with rugged RJ45 plugs
- PVC with M12 SmartClick plugs
- In addition to cables with sockets and robot cables, shield strengthening cables joined.



■ Connection Examples



Features

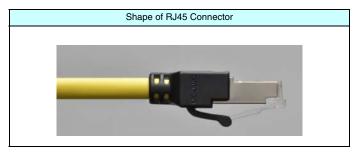
Cables with Standard RJ45 Connectors

For details, refer to page 4.

- The lineup features LSZH cables* for in-panel wiring and PUR cables for wiring outside of panels.
- The Standard RJ45 Connectors reduce cable routing space. LSZH cables are AWG26 with an outer diameter of 6.3 mm. PUR Cables are AWG26 with an outer diameter of 6.0 mm.
- Cable colors include blue, yellow, or green.
- LSZH cables are available in 12 lengths from 0.2 to 20 m and PUR cables are available in 10 lengths from 0.5 to 20 m.
- Single-shielded cables with individual aluminum tape on each wire pair to reduce EMC interference in industrial environments.

Note. PUR cables are double-shielded cables with overall braiding and individual aluminum tape on each wire pair.

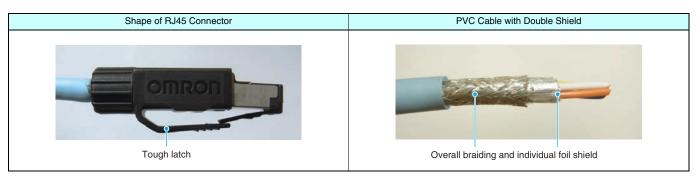
* Low-smoke zero-halogen cables.



Cables with Rugged RJ45 Connectors

For details, refer to page 7.

- Tough latches and RJ45 connectors with strong cable holding strength are used to enable connections outside of control panels.
- Quad AWG22 cable with PVC cover of 6.5 mm outer diameter.
- Double-shielded cables with overall braiding and individual foil shield to reduce EMC interference in industrial environments.

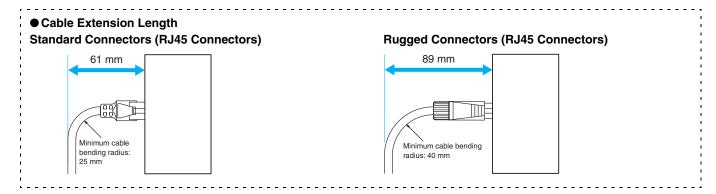


Assembly Connectors

You can easily assemble Ethernet cables onsite without crimping tools or other special tools.

Refer to page 14 for the assembly procedure.

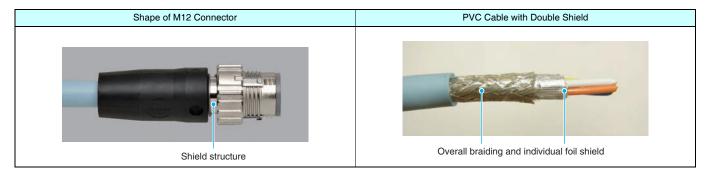




Cables with M12 Connectors (Waterproof)

For details, refer to page 7.

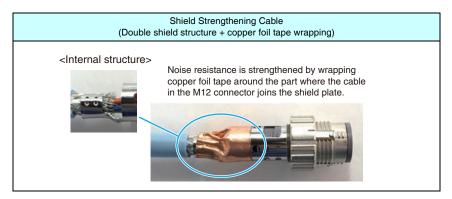
- Resistance to harsh environments with IP67 protection.
- SmartClick Connectors that provide one-step (1/8th turn) connection are used (compatible with standard M12 screw connectors).
- A wide range of variations, such as cables with right-angle connectors and PCB connectors.
- Cables with sockets and robot cables were added to the series.



Cables with M12 Connectors Shield Strengthening Cables specification

For details, refer to page 7.

- Cable specification with strengthened shield for higher noise resistance. Recommended for EtherCAT communications.
- In addition to a double shield structure, copper foil tape is added to the M12 connector to improve communication characteristics (see below).



Shield Effectiveness Data for Rugged RJ45 Connectors and M12 Connectors (Waterproof)

The following data is the results of OMRON testing. Shield effectiveness may vary for your environment and application conditions.

● Comparison of Shield Effectiveness with Product without a Double Shield

The following table shows the differences with a structure without a double shield. Higher numeric values show greater shield effectiveness.

Shield structure	Frequency (MHz)					
Sillelu Structure	0.5	1	5	10	30	
Product with single shield	53 dB	49 dB	35 dB	25 dB	17 dB	
Product with a double shield (XS5□-T, Category 5E)	61 dB	58 dB	43 dB	31 dB	27 dB	

- SmartClick is a registered trademark of OMRON Corporation.
- EtherCAT® is a registered trademark and patented technology, licensed by Beckhoff Automation GmbH, Germany.
- Other company names and product names in this document are the trademarks or registered rademarks of their respective companies.

Cables with Standard RJ45 Connectors

■ Model Number Legend

Use this legend when determining the product specifications from the model number. Choose from the model numbers listed in *Ordering Information* when ordering.



1)Transmission Characteristics

5: Category 5

6: Category 6A

2Sheath Material

LSZH: LSZH PUR: PUR

3Number of Pins

8: 8 pins

4 Cable Attachment Direction

SS: Straight/Straight

5Cable Length*

20: 0.2 m

30: 0.3 m

50: 0.5 m

100: 1 m

150: 1.5 m

200: 2 m

300: 3 m

500: 5 m

750: 7.5 m

1000: 10 m

1500: 15 m

2000: 20 m

6Sheath Color

B: Blue

Y: Yellow

G: Green

4

^{*} PUR cables are not available for 0.2-m and 0.3-m cables.

■ Ordering Information

Appearance	Туре	Category	Cable sheath material	Cable color	Cable length (m)	Model			
					0.2	XS6W-6LSZH8SS20CM-B			
					0.3	XS6W-6LSZH8SS30CM-B			
					0.5	XS6W-6LSZH8SS50CM-B			
					1	XS6W-6LSZH8SS100CM-B			
					1.5	XS6W-6LSZH8SS150CM-B			
					2	XS6W-6LSZH8SS200CM-B			
				Blue	3	XS6W-6LSZH8SS300CM-B			
					5	XS6W-6LSZH8SS500CM-B			
					7.5	XS6W-6LSZH8SS750CM-B			
					10	XS6W-6LSZH8SS1000CM-B			
					15	XS6W-6LSZH8SS1500CM-B			
					20	XS6W-6LSZH8SS2000CM-B			
					0.2	XS6W-6LSZH8SS20CM-Y			
					0.3	XS6W-6LSZH8SS30CM-Y			
					0.5	XS6W-6LSZH8SS50CM-Y			
					1	XS6W-6LSZH8SS100CM-Y			
					1.5	XS6W-6LSZH8SS150CM-Y			
			LSZH	LSZH Yellow	2	XS6W-6LSZH8SS200CM-Y			
		Cat.6a			3	XS6W-6LSZH8SS300CM-Y			
					5	XS6W-6LSZH8SS500CM-Y			
					7.5	XS6W-6LSZH8SS750CM-Y			
					10	XS6W-6LSZH8SS1000CM-Y			
	Cable with				15	XS6W-6LSZH8SS1500CM-Y			
	Connectors on Both Ends (RJ45/RJ45)				20	XS6W-6LSZH8SS2000CM-Y			
	Liida (11043/11043)				0.2	XS6W-6LSZH8SS20CM-G			
					0.3	XS6W-6LSZH8SS30CM-G			
					0.5	XS6W-6LSZH8SS50CM-G			
								1	XS6W-6LSZH8SS100CM-G
				Green	1.5	XS6W-6LSZH8SS150CM-G			
					2	XS6W-6LSZH8SS200CM-G			
					3	XS6W-6LSZH8SS300CM-G			
Ø					5	XS6W-6LSZH8SS500CM-G			
4					7.5	XS6W-6LSZH8SS750CM-G			
					10	XS6W-6LSZH8SS1000CM-G			
					15	XS6W-6LSZH8SS1500CM-G			
					20	XS6W-6LSZH8SS2000CM-G			
					0.5	XS6W-5PUR8SS50CM-G			
					1	XS6W-5PUR8SS100CM-G			
					1.5	XS6W-5PUR8SS150CM-G			
					2	XS6W-5PUR8SS200CM-G			
					3	XS6W-5PUR8SS300CM-G			
		Cat.5	PUR	Green	5	XS6W-5PUR8SS500CM-G			
Ø					7.5	XS6W-5PUR8SS750CM-G			
-									
					10 15 20	XS6W-5PUR8SS1000CM-G XS6W-5PUR8SS1500CM-G XS6W-5PUR8SS2000CM-G			

Specifications

Туре	Cable with Connectors on Both Ends (RJ45/RJ45)/LSZH	Cable with Connectors on Both Ends (RJ45/RJ45)/PUR		
Item Model	XS6W-6LSZH8SS□□□□CM-□	XS6W-5PUR8SS□□□□CM-G		
Rated current	1 A (at 50°C)			
Withstand voltage	1,000 VDC for 60 s (leakage current: 1 mA max.)			
Ambient operating temperature	–20 to 75°C	-40 to 80°C		
Ambient storage temperature	–20 to 75°C	-40 to 80°C		
Ambient installation temperature	nstallation tem- 0 to 50°C -10 to 60°C			
Protective structure	IP20			

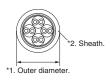
■ Materials and Finish

Connectors

	Туре	Cable with Connectors on Both Ends (RJ45/RJ45)/LSZH	Cable with Connectors on Both Ends (RJ45/RJ45)/PUR		
Item M	1odel	XS6W-6LSZH8SS□□□□CM-□	XS6W-5PUR8SS□□□□CM-G		
Connector housing		PC resin (UL94V-0)/transparent			
Contacts		Copper alloy/nickel base, gold plated			
Shield		Brass/nickel plated			
Cover (structured to prever tab from breaking)	nt the	PA/Black			
Marking tube		PVC resin (UL94V-0)/transparent			

Cables

Туре	Cable with Connectors on Both Ends (RJ45/RJ45)/LSZH	Cable with Connectors on Both Ends (RJ45/RJ45)/PUR	
Item Model	XS6W-6LSZH8SS□□□□CM-□	XS6W-5PUR8SS□□□□CM-G	
Compliant standard	IEC 60332-1 /UL444	IEC 60332-1	
Number of cores	AWG26		
Outer diameter *1	6.3 mm	6.0 mm	
Sheath color *2	Blue, yellow, or green	Green	
Sheath material	LSZH	PUR	
Shield structure	Single shield	Double shield	

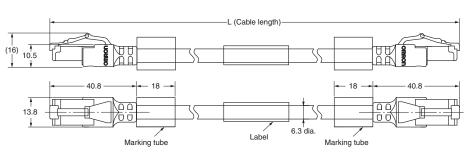


■ Dimensions (Unit: mm)

● Cable with Connectors on Both Ends (RJ45/RJ45) XS6W-6LSZH8SS□□□□CM-□ XS6W-5PUR8SS□□□□□CM-G







Cables with Rugged RJ45 Connectors and Cables with M12 Connectors

■ Model Number Legend

Use this legend when determining the product specifications from the model number. Choose from the model numbers listed in *Ordering Information* when ordering.

● Cable with Connectors



1 Connector Shape

H: Cable with plug on one end

W: Cable with connectors on both ends

②Type

T: Ethernet (mating part: M12 D coding)

3Number of Pins

4: 4 pins

4 Contact Plating Specification

2: Gold plating, 0.4 µm

5 Cable Attachment Direction (M12 Connectors)

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 J: 10 m

K: 15 m

(7)Connector Shape

0: M12 plug on one end

Connectors on both ends: M12 socket/M12 plug
 Connectors on both ends: M12 plug/M12 plug
 Connectors on both ends: M12 plug/RJ45 plug
 Connectors on both ends: RJ45 plug/RJ45 plug
 Connectors on both ends: M12 socket/RJ45 plug

®Cable Specification

K: Standard cable (Cable color: Light blue)
Y: Standard cable (Cable color: Yellow)
KR: Robot cable (Cable color: Light blue)
YR: Robot cable (Cable color: Yellow)

SS: Shield Strengthening cable (Cable color: Black)

● RJ45 Assembly Connectors

1)Type

T: Ethernet

2 Number of Pins

4: 4 pins

3 Contact Plating Specification

2: Gold plating, 0.4 μm

4 Cable Attachment Direction

1: Straight

5 Degree of Protection

1: IP20

● M12 Connectors for Panel Mounting

1)Type

T: Ethernet (mating part: M12 D coding)

2 Number of Pins

4: 4 pins

3 Plating Specification

2: Gold plating, 0.4 µm

4 Mounting Method

6: Rear lockingt

7: Front locking

5Terminal Shape

1: DIP terminalst

5: Cable with loose wires (0.5 m)

■ Ordering Information

Appearance	Cable type	Туре	Cable color	Cable length (m)	Model					
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	31		0.5	XS5H-T421-BM0-K					
				1	XS5H-T421-CM0-K					
				2	XS5H-T421-DM0-K					
		Cable with Plug on One End	Light blue	3	XS5H-T421-EM0-K					
		(M12 Straight)	9	5	XS5H-T421-GM0-K					
				10	XS5H-T421-JM0-K					
				15	XS5H-T421-KM0-K					
				0.5	XS5W-T421-BM2-K					
				1	XS5W-T421-CM2-K					
				2	XS5W-T421-DM2-K					
			Light blue	3	XS5W-T421-EM2-K					
			ig: 2.00	5	XS5W-T421-GM2-K					
				10	XS5W-T421-JM2-K					
		Cable with Plugs on Both Ends		15	XS5W-T421-KM2-K					
		(M12 Straight/M12 Straight)		0.3	XS5W-T421-AM2-Y					
610				0.5	XS5W-T421-BM2-Y					
				1	XS5W-T421-CM2-Y					
			Yellow	2	XS5W-T421-DM2-Y					
				3	XS5W-T421-EM2-Y					
				5	XS5W-T421-EM2-Y					
				0.3	XS5W-T421-AMC-K					
				0.5	XS5W-T421-AMC-K					
				0.5	XS5W-T421-BMC-K XS5W-T421-CMC-K					
				2	XS5W-T421-DMC-K					
			Light blue	3	XS5W-T421-DMC-K					
The state of the s				5	XS5W-T421-EMC-K					
				10	XS5W-T421-JMC-K					
		Cable with Plugs on Both Ends (M12 Straight/RJ45)		15	XS5W-T421-SMC-K					
Of the second		(WITZ Graight 1040)		0.3						
			Yellow		XS5W-T421-AMC-Y					
		Standard Cables		0.5	XS5W-T421-BMC-Y					
				1	XS5W-T421-CMC-Y					
				2	XS5W-T421-DMC-Y					
	Cables			3	XS5W-T421-EMC-Y					
				5	XS5W-T421-GMC-Y					
				0.5	XS5H-T422-BM0-K					
				1	XS5H-T422-CM0-K					
		Cable with Plug on One End	I Sadak labora	2	XS5H-T422-DM0-K					
						(M12 Right-angle)	Light blue	3	XS5H-T422-EM0-K	
				10	XS5H-T422-JM0-K					
				15	XS5H-T422-KM0-K					
				0.5	XS5W-T422-BM2-K					
				1	XS5W-T422-CM2-K					
		Cable with Plugs on Both Ends	1	2	XS5W-T422-DM2-K					
		(M12 Right-angle/M12 Right-angle)	Light blue	3	XS5W-T422-EM2-K					
				5	XS5W-T422-GM2-K					
				10	XS5W-T422-JM2-K					
				15	XS5W-T422-KM2-K					
~ ~ ~				0.3	XS5W-T422-AMC-K					
1				0.5	XS5W-T422-BMC-K					
				1	XS5W-T422-CMC-K					
		Cable with Plugs on Both Ends	Light blue	2	XS5W-T422-DMC-K					
5 (//		(M12 Right-angle/RJ45)	g 2.03	3	XS5W-T422-EMC-K					
•				5	XS5W-T422-GMC-K					
				10	XS5W-T422-JMC-K					
				15	XS5W-T422-KMC-K					
				0.3	XS5W-T421-AMD-K					
				0.5	XS5W-T421-BMD-K					
				1	XS5W-T421-CMD-K					
		Cable with Plugs on Both Ends	Light blue	2	XS5W-T421-DMD-K					
		(RJ45/RJ45)	Light blue	3	XS5W-T421-EMD-K					
				5	XS5W-T421-GMD-K					
				10	XS5W-T421-JMD-K					
				15	XS5W-T421-KMD-K					
		1								

Appearance	Cable type	Туре	Cable color	Cable length (m)	Model		
	31	71		0.5	XS5W-T421-BM1-K		
				1	XS5W-T421-CM1-K		
		Cable with Plug on One End and Socket on		2	XS5W-T421-DM1-K		
		Other End	Light blue	3	XS5W-T421-EM1-K		
1		(M12 Straight/M12 Straight)		5	XS5W-T421-GM1-K		
				10	XS5W-T421-JM1-K		
	Standard			15	XS5W-T421-KM1-K		
	Cables			0.5	XS5W-T421-BME-K		
				1	XS5W-T421-CME-K		
		Cable with Plug on One End and Socket on		2	XS5W-T421-DME-K		
		Other End (M12 Straight/RJ45)	Light blue	3	XS5W-T421-EME-K		
		(WIZ Straight 1045)		5	XS5W-T421-GME-K		
				10	XS5W-T421-JME-K		
				15	XS5W-T421-KME-K		
				0.5	XS5W-T421-BM1-KR XS5W-T421-CM1-KR		
				2	XS5W-T421-DM1-KR		
		Cable with Plug on One End and Socket on Other End	Light blue	3	XS5W-T421-EM1-KR		
		(M12 Straight/M12 Straight)	Light blue	5	XS5W-T421-GM1-KR		
		, , ,		10	XS5W-T421-JM1-KR		
				15	XS5W-T421-KM1-KR		
				0.5	XS5W-T421-BM2-KR		
-				1	XS5W-T421-CM2-KR		
3				2	XS5W-T421-DM2-KR		
		Cable with Plugs on Both Ends	Light blue	3	XS5W-T421-EM2-KR		
		(M12 Straight/M12 Straight)		5	XS5W-T421-GM2-KR		
				10	XS5W-T421-JM2-KR		
			:	15	XS5W-T421-KM2-KR		
			Yellow	2	XS5W-T421-DM2-YR		
		Robot Cables Cable with Plugs on Both Ends (M12 Straight/RJ45)		0.5	XS5W-T421-BMC-KR		
	Robot Cables			1	XS5W-T421-CMC-KR		
The same				2	XS5W-T421-DMC-KR		
			Light blue	3	XS5W-T421-EMC-KR		
				5	XS5W-T421-GMC-KR		
				10	XS5W-T421-JMC-KR		
				15	XS5W-T421-KMC-KR		
					Yellow	3	XS5W-T421-EMC-YR
				5	XS5W-T421-GMC-YR		
				0.5	XS5W-T421-BMD-KR XS5W-T421-CMD-KR		
				2	XS5W-T421-DMD-KR		
			Light blue	3	XS5W-T421-DMD-KR		
N Jacob			Light blue	5	XS5W-T421-GMD-KR		
		Cable with Plugs on Both Ends		10	XS5W-T421-JMD-KR		
		(RJ45/RJ45)		15	XS5W-T421-KMD-KR		
		,		0.5	XS5W-T421-BMD-YR		
				1	XS5W-T421-CMD-YR		
			Yellow	2	XS5W-T421-DMD-YR		
				3	XS5W-T421-EMD-YR		
				5	XS5W-T421-GMD-YR		
				0.5	XS5W-T421-BM2-SS		
				1	XS5W-T421-CM2-SS		
		Cable with Pluse on Bath Fada		2	XS5W-T421-DM2-SS		
		Cable with Plugs on Both Ends (M12 Straight/M12 Straight)	Black	3	XS5W-T421-EM2-SS		
		, , , , , , , , , , , , , , , , , , , ,					
Shield	Shield			5	XS5W-T421-GM2-SS		
	Strengthening Cables			10	XS5W-T421-JM2-SS		
				0.5	XS5W-T421-BMC-SS		
				1	XS5W-T421-CMC-SS		
		Cable with Plugs on Both Ends	Di'	2	XS5W-T421-DMC-SS		
		(M12 Straight/RJ45)	Black	3	XS5W-T421-EMC-SS		
9				5	XS5W-T421-GMC-SS		
				10	XS5W-T421-JMC-SS		



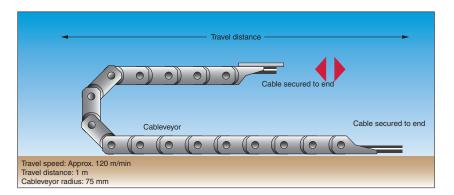
Appearance	Cable type	Туре		Cable color	Cable length (m)	Model	
олгоп	RJ45 Assembly Connector				XS6G-T421-1		
	Standard		M12 Connector for Panel	Rear locking		0.5	XS5P-T426-5
	Cables	Mounting	Front locking		0.5	XS5P-T427-5	
	M12 Panel-mounting PCI		Straight Terminals			XS5P-T426-1	

● Cable Bending Data for Robot Cables (XS5W-T421-□M□-KR)

The following data is the results of OMRON testing for cable bending test conditions. The number of bends may vary for your environment and application conditions.

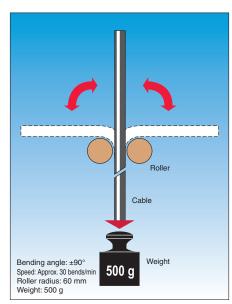
Cableveyor Test

Number of bends: 20 million min.



90° Bending Test

Number of bends: 6 million min.



Specifications

Тур	Cable with Plug on One End (M12)	Cable with Plugs on Both Ends (M12/M12)	Cable with Plug on One End and Socket on Other End (M12/M12)	Cable with Plugs on Both Ends (M12/RJ45)	Cable with Plug on One End and Socket on Other End (M12/RJ45)	Cable with Plugs on Both Ends (RJ45/RJ45)	RJ45 Assembly Connector	M12 Connector for Panel Mounting	M12 Panel- mounting PCB Straight Ter- minals	
Item Mode	XS5H -T42□-□M0-K	XS5W -T42□-□M2-K, -KR	XS5W -T42□-□M1-K, -KR	XS5W -T42□-□MC-K, -KR	XS5W -T421-□ME-K	XS5W -T421-□MD-K, -KR	XS6G -T421-1	XS5P-T42□-5	XS5P -T426-1	
Rated current	3 A			2.5 A				4 A		
Rated voltage	30 V	30 V						125 VDC		
Contact resistance	40 mΩ max.									
Insulation resistance	1,000 MΩ min.			500 M Ω min.				1,000 M Ω min.		
Withstand voltage	1,000 VAC for	1,000 VAC for 60 s (leakage current: 1 mA max.) 1,500 VAC for 60 s (leakage current: 1 mA max.)								
Ambient operating temperature	Ambient operating temperature -25 to 70°C*									
Ambient storage temperature	1 = 25 to 70°C									
Protective structure	I M12: IEC IP67 B.145: IEC IP20									

^{*} 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.

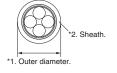
■ Materials and Finish

Connectors

Model		M12			
Item	XS5H and XS5W	XS5P-T42□-5	XS5P-T426-1	XS5W and XS6G	
Contact blocks	PBT resin (UL94V-0)/light gray		PA resin (UL94V-0)/black	PA resin (UL94V-0)/black	
Contacts	Phosphor bronze/nickel base, go	ld plated (0.4 μm)	Brass/nickel base, gold plated (0.4 μm)	Phosphor bronze/nickel base, gold plated (1.4 μm)	
Anchors	Zinc diecast/nickel plating -				
Anchors (tabs)	SUS				
Cover	TPE (Thermo Plastic Elastomer) /black				
Sealing resin		Epoxy resin			
O-rings	Rubber				
Grounding fixture			Phosphor bronze/nickel base, tin plated (2.0 μm)		
Anchor cover			SUS		
Nuts	Brass/nickel plated				

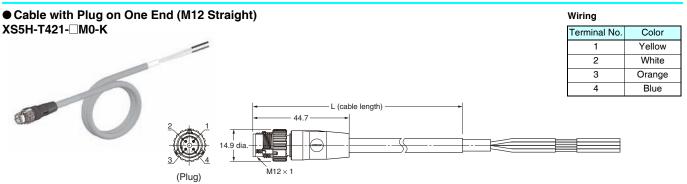
Cables

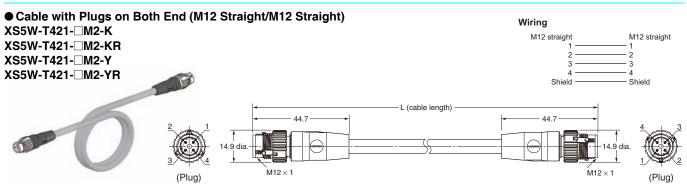
Model Item	Standard Cables	Robot Cables	Shield Strengthening Cables			
Compliant standard	UL CM	UL CM				
Category	Category 5e					
Core/color	AWG22 (7/0.26): Yellow · Orange · White · Blue	AWG22 (7/24/0.05): Yellow · Orange · White · Blue	AWG22 (7/0.26): Yellow · Orange · White · Blue			
Outer diameter*1	6.5 dia.					
Sheath color*2	Light blue, Yellow	Light blue, Yellow Black				
Sheath material	PVC					
Shield structure	Double shield SF/UTP					

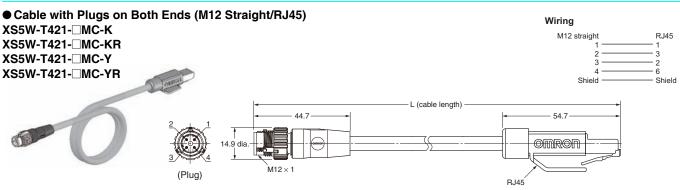


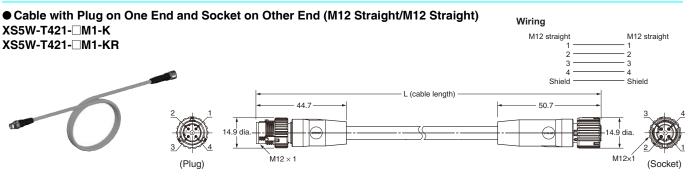
Note. For the XS5H and XS5W, cables are available only with connectors attached.

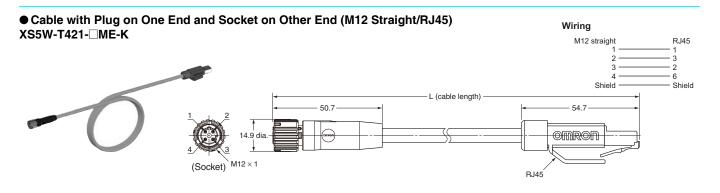


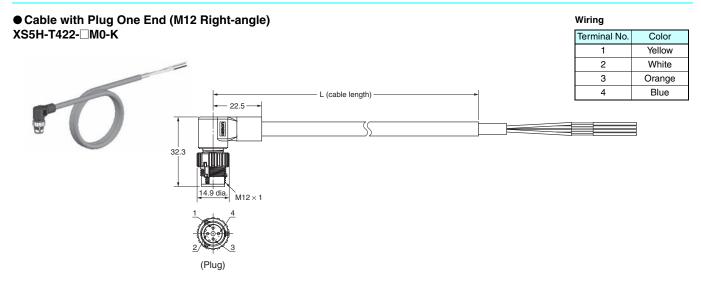


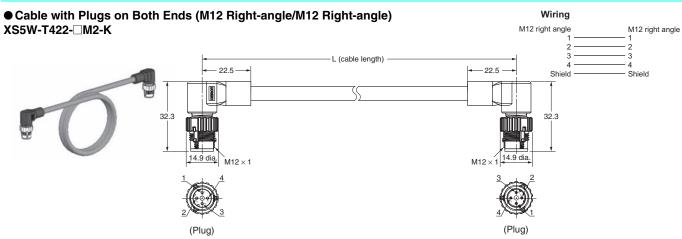




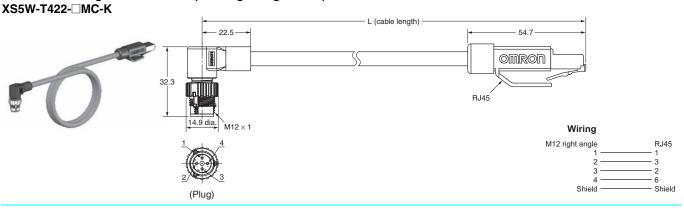


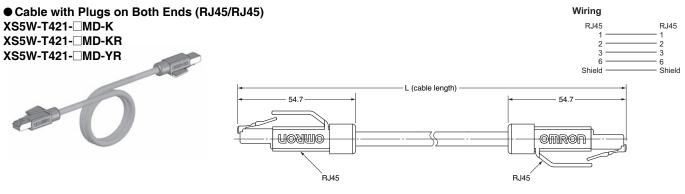


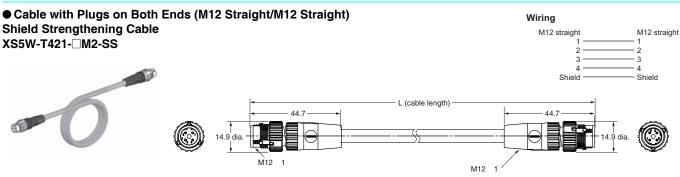


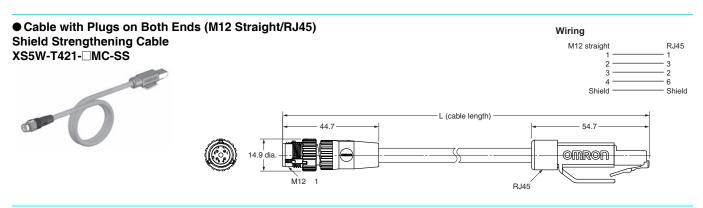


● Cable with Plugs on Both Ends (M12 Right-angle/RJ45)



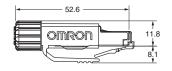


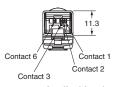




● RJ45 Assembly Connector XS6G-T421-1







Applicable wires

Sheath outer diameter: 6.1 to 6.9 mm Core size: AWG22 to AWG24 (stranded wires) AWG22 to AWG23 (solid wires)

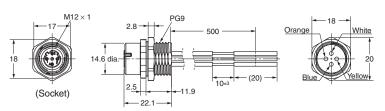
Insulation outer diameter: 1.6 mm max.

● M12 Connector for Panel Mounting

XS5P-T42□-5

XS5P-T426-5 (Rear Locking)

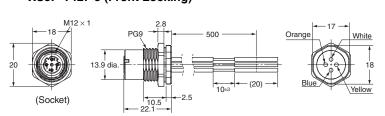




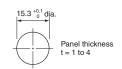
Wiring

Terminal No.	Color
1	Yellow
2	White
3	Orange
4	Blue

XS5P-T427-5 (Front Locking)



Panel Cutout Dimension



Note 1: The panel cutout dimension is the same for Front-locking and Rearlocking Connectors.

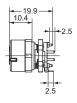
Note 2: Rotational positioning is not possible for connector rotation.

● M12 Panel-mounting PCB Straight Terminals XS5P-T426-1

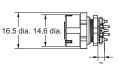




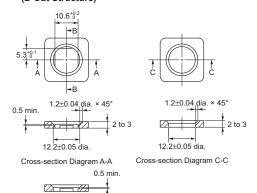






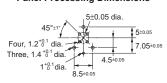


Mounting Hole Dimensions Mounting Hole Dimensions (D Cut Structure)



Panel Processing Dimensions

Cross-section Diagram B-B



Assembly Procedure

RJ45 Assembly Connectors XS6G-T421-1

- Pass the cable through the cable clamp and the connector housing
- Strip the cable sheath and ground braiding to the correct lengths.

•13 mm>

- Follow the color codes and prepare to insert the wires into the splice piece.
- Insert the wires into the splice piece for the length of the splice piece.
- Place the splice piece into the RJ45 data module and engage it.
- Place the data module and the splice piece on the IDC assembly housing.
- 7. Press the data module and the IDC assembly housing together and use pliers or a similar device to make the insulation displacement contact.
- Remove the data module from the IDC assembly housing.
- 9. Place the upper screen plate on the data module and press it over the ground braiding of the cable.
- 10. Place the lower screen plate on the bottom of the data module, align it with the upper screen place, and latch it until you hear it click into place.
- 11. Slide the housing that you placed around the cable in step 1 up to the data module and latch it until you hear it click into place.

12. Tighten the cable clamp.

Pin Assignments

Pin Assignments for Fast Ethernet 10/100 Mbps

			•	
Function/Signal	Wire color			
	Industrial Ethernet	EIA/TIA 568A	EIA/TIA 568B	Pin No.
Transmission Data+/TD+	YE	WH/GN	WH/OG	1
Transmission Data-/TD-	OG	GN	OG	2
Receiver Data/RD+	WH	WH/OG	WH	3
Receiver Data/RD-	BU	OG	GN	6



M12 Panel-mounting PCB Straight Terminals XS5P-T426-1

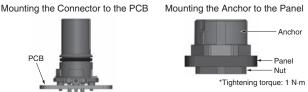
Confirming the Number of Parts

The following four parts are included in the package when it is

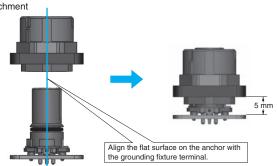
Panel-mounting Parts PCB-mounting Part 1. Anchor 2. O-Ring 3. Nut 4. Connector

Assembly Procedure

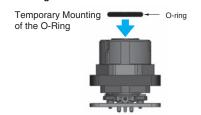
- 1. Mount the connector to the PCB.
- 2. Attach the anchor to the panel with the nut.



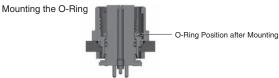
- 3. Attach the connector that you mounted to the PCB to the panel.
 - * Make sure that the connector and anchor are oriented correctly. Attachment



4. Temporarily mount the O-ring to the top of the connector at the mating surface.



5. Mate the Connector Waterproof Cover (XS2Z-22, sold separately) or the Partner Connector Plug (XS5H-T42 - M0-K, sold separately) and press the O-ring to the O-ring position after mounting.



Connector Waterproof Cover (Sold Separately) XS2Z-22



* Tightening torque: 0.39 to 0.49 N·m

■ Safety Precautions

Precautions for Correct Use

Do not use the Connectors in an atmosphere or environment that exceeds the specifications.

Connector Connection and Disconnection

- When connecting or disconnecting Connectors, be sure to hold the Connectors.
- Do not hold the cable when disconnecting Connectors.
- When joining Connectors, be sure to insert the plug all the way to the back of the socket before attempting to lock the Connectors.
- Do not use tools of any sort to join the Connectors. Always use your hands. Pliers or other tools may damage the Connectors.

Wiring

Lay the cables so that external force is not applied to the Connectors. Otherwise, the degree of protection (IP67) may not be achieved.

Degree of Protection for M12/Smartclick Connectors

- The degree of protection of Connectors (IP67) is not for a fully watertight structure. Do not use the Connectors underwater.
- Do not step on or place any objects on the Connectors. Doing so may damage the Connectors.

Handling Precautions

- Do not pull on the Connectors or cables with excessive force.
 Do not install the Connectors with a load placed directly on the joint or at the point where the wires connect to the Connector.
 The Connector may be damaged or the wires in the cable may be disconnected.
- Lay the cable where it will not be stepped on to prevent the wires in the cable from being disconnected and to protect the Connectors from being damaged. If the cable must be placed where it will be stepped on, install a protective cover.
- When bending cables, do not exceed the cable specifications.

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