

Omron's Ethernet Cables and Connectors The best connection for both inside and outside the panel



In coordination with our extensive lineup of telecommunication products, our Ethernet cables deliver

Reliable connection quality

Industrial Ethernet Cables Series

With the growing prevalence of IoT, automated factory sites are also replacing serial connection with Ethernet as their main method of communication, and their expectations for connection quality are becoming increasingly demanding.

At Omron, we provide an extensive array of Industrial Ethernet cables and connectors that our unique technologies in connection (One-touch Smartclick) and environmental resistance to enable reliable connection.These products support both controller-level and device-level networks, and can be used together with general-purpose Ethernet as well.

You can ensure connection quality by coordinating them with our PLCs and other products from our assortment of Ethernet devices.



FACTORY AUTOMATION

MACHINE CONTROL

Machine Automation Controller / Industrial PC with Sysmac Machine Control



🍫 Motion





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STEP1 | Select by standard / use environment

Omron's Cables and Connectors support EtherNet/IP[™], EtherCAT[®], and other Industrial Ethernet, allowing for selection according to standard and use environment

1.Select by cable standard (Ethernet speed)

Be sure to use Ethernet Cables and Connectors that supports Ethernet speed you need. Check the Ethernet speed of your PLC, sensors, and any other component you plan to use and select cables and connectors that complies with the necessary standards.

			Cable and Connectors standards								
\checkmark Supported *Supported when cable length ≦37 m		Cat5	Cat5e	Cat6	Cat6A						
		10BASE-T	\checkmark	\checkmark	\checkmark	\checkmark					
Ethernet speed	Highe	igh	igh	igh	100BASE-TX	\checkmark	\checkmark	\checkmark	\checkmark		
(Band rate)											1000BASE-T
		10GBASE-T	-	-	✓*	\checkmark					

Cat6A For high-speed communication

Cables with RJ45 Connectors



Cat5e

Cables with RJ45 Connectors Cables with M12 Connectors (Round Water-resistant Connectors)



- Notes: 1. We recommend for 100BASE-TX/10BASE-T, use STP (shielded twisted-pair) cable of category 5 or higher and 1000BASE-T, use STP cable of category 5e or higher with double shielding (aluminum tape and braiding).
 - 2. For Power over Ethernet (PoE) applications, use cable of category 5 or higher and make sure to check the rated values of both the PoE device and Ethernet Cables and Connectors.

2. Select by cable use environment

Use RJ45 connectors for in-panel wiring and M12 connectors (Round Water-resistant Connectors) with IP67 protection for wiring outside the control panel where environmental resistance is required.



Note: The data on this page are the results of OMRON testing. They may vary for your environment and application conditions. Treat them as a reference. STEP2 Use properly products according to feature

Extensive lineup of high-quality products allows for use of different models according to purpose

Product features

RJ45 Connectors

Cables with standard RJ45 Connectors XS6W-6PUR





· Compact RJ45 connectors reduce in-panel cable routing space

- · Enhanced wiring flexibility
- · Double-shielded for use in hostile, noisy environments

>P.11

Cables with standard RJ45 Connectors XS6W-6LSZH



- Individual foil shield
- · Compact RJ45 connectors reduce in-panel cable routing space
 - Flame-retardant low smoke zero halogen (LSZH) cables produce very little toxic gases even if they should burn
 - · Cable colors include blue, yellow, or green.
 - Note: This model, while single-shielded, has been confirmed to provide communication/noise characteristics that meet the standards.

Cables with Rugged RJ45 Connectors XS5W-T421- MD-





- · RJ45 connectors with tough latch structure
- · Double-shielded for use in hostile, noisy environments

>P.15

>P.11

M12 Connectors

Cables with standard M12 Connectors $XS5\Box$ -T42 \Box - \Box M \Box - \Box \Box





- Environment-resistant M12 connectors (Round Water-resistant Connectors) with IP67 protection that can be mated one-touch (approximately 1/8 of a turn)
- Double-shielded for use in hostile, noisy environments
- · Extensive product lineup, including cables with right-angle connectors and those for panel mounting

>P.15

Cables with Strengthened shield M12 Connectors XS5 --- T42 -- M -- SS



 Offers environmental resistance and one-touch mating, with strengthened shielding for enhanced noise resistance.

Copper foil tape added to connector portion for improved communication characteristics.

>P.15

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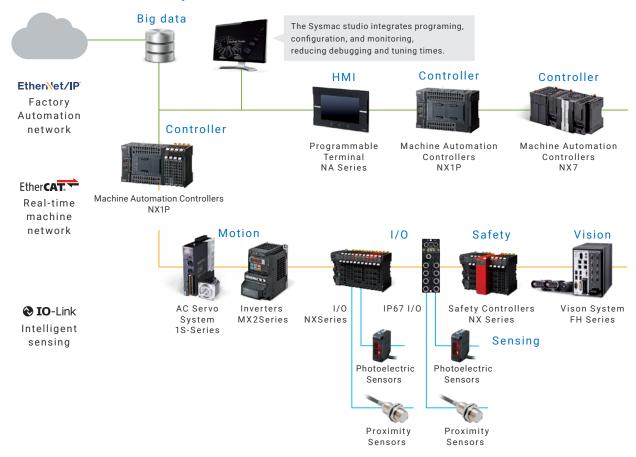
RJ45 Assembly Connectors XS6G-T421-1

Enables easy on-site Ethernet cable assembly without crimp tools or other special tools.



System Configuration

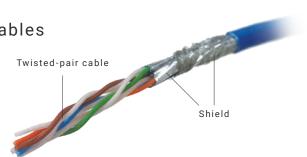
Sysmac Automation Platform



TIPS 📋 Basic guide to Industrial Ethernet cables

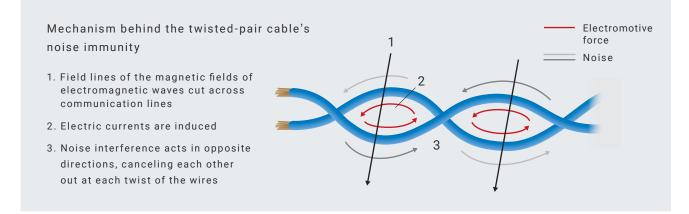
Specifications of Industrial Ethernet cables

Twisted-pair cables and their shielding play key roles in ensuring communication quality in hostile factory.



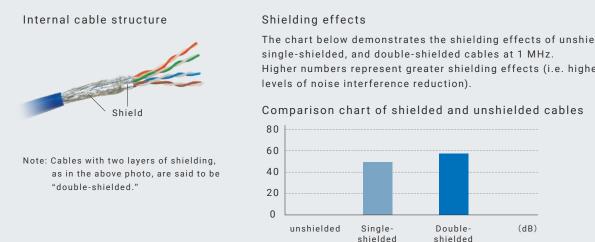
What is a twisted-pair cable?

A cable consisting of a pair of wires twisted together is commonly called a twisted-pair cable. Its relative resistance to noise has made it the cable most widely used for Ethernet and other communication.



Effects of shielding

Industrial twisted-pair cables are shielded to further improve their noise resistance. STP (shielded twisted-pair) cables, also called FTP (folded twisted-pair) cables, are distinguished from UTP (unshielded twisted-pair) cables used in regular office environments.



The chart below demonstrates the shielding effects of unshielded, Higher numbers represent greater shielding effects (i.e. higher

Ethernet cable standards / points of note

There are several things to note in enabling stable operation of PLCs and other Ethernet communication devices. Observe the following when selecting and using Ethernet cables.

POINT1 Compliance to Ethernet cables standards

Ethernet is a LAN protocol, and based on standards by Ethernet speed (Band rate).

The higher the communication speed, the higher the transmission signal frequency and the more susceptible it is to noise. Choose the right cable to ensure standard-compliant communication speed.

To find an Omron product that best suits your needs, see "1. Select by cable standard (band rate for Ethernet)" on page 04.

10BASE-T	 10 Mbit/s communication speed Star network (LAN) with maximum cable length of 100 m
100BASE-TX	 High communication speed of 100 Mbit/s Many 100BASE-TX devices are 10BASE-T compatible, allowing for mixed
10GBASE-T	 Next-generation high-speed network that can provide 10 Gbit/s connections Significantly reduces data transfer time, increasing efficiency

Standard requirement examples

POINT2 Ethernet cable wiring / use environment

Actual Ethernet cable wiring entails bending in many places, as shown in Figure 1.

When cables are bent (Figure 2), it induces noise; users should therefore take into account the place of installation (in-panel and outside), installation space, and equipment configuration and choose a cable that is suited for their purpose.

▶ To find an Omron product that best suits your needs, see "2. Select by cable use environment" on page 05.

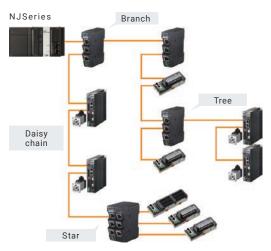
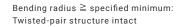


Figure 1. Wiring example

Figure 2. How bending can affect twisted-pair structure







Bending radius < specified minimum: Twisted-pair structure iscompromised, increasing noise susceptibility

Note: For minimum bending radius (R) values, see "Safety Precautions" on page 26.

Industrial Ethernet Cables

Cables and Connectors for EtherNet/IP[™], EtherCAT[®] and Other Industrial Ethernet Networks

Cables with RJ45 Connectors

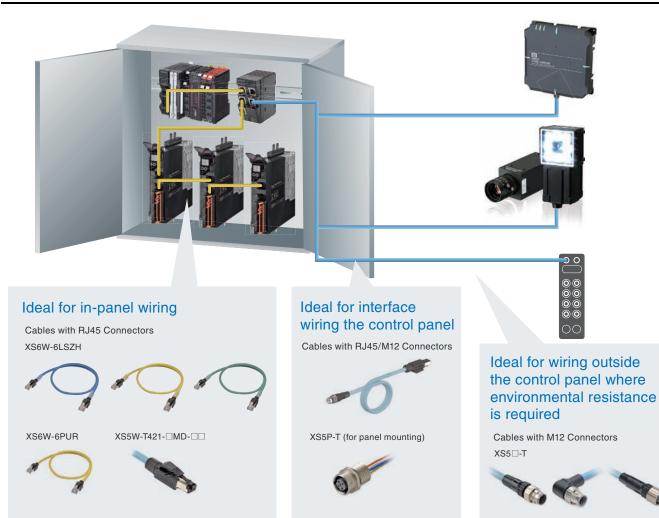
- For in-panel wiring
- LSZH with Standard RJ45 Connectors (Cat6A)
- PUR with Standard RJ45 Connectors (Cat5 and Cat6A)
- PVC with Rugged RJ45 Connectors (Cat5e)

Cables with M12 Connectors (Round Water-resistant Connectors)

- For wiring outside the control panel where environmental resistance is required.
- PVC with M12 Connectors (Cat5e) that enables one-touch (1/8 turn) locking.
- PVC Robot cable are available.

Connection Examples





Cables with Standard RJ45 Connectors

Model Number Structure

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.

6 7

XS6W-0 0000 8 SS 0000CM-0 0

5

①②③④①Transmission Characteristics

- 5: Category 5
- 6: Category 6A

2Sheath Material

LSZH: LSZH PUR: PUR

3Number of Pins

8: 8 pins

Cable Attachment DirectionSS: 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

$\ensuremath{\overline{\mathcal{O}}}\xspace$ Cable Specifications

F: Flexibility-improved Type (Standard Cable) None: Standard Cagle

Ordering Information

Parabity-improved Type (Bandard Cable) 0.9 X89W-49UR85300CM VF PUB 0.6 X59W-49UR85300CM VF 1 X59W-49UR85300CM VF 1 2 X59W-49UR85300CM VF 2 3 X59W-49UR85300CM VF 2 2 X59W-49UR85300CM VF 2 2 X59W-49UR85300CM VF 2 3 X59W-49UR85300CM VF 2 20 X59W-49UR85300CM VF 3 3 X59W-49UR85300CM VF 1 1 X59W-49UR85300CM VF 3 2 X59W-49UR85300CM VF 3 3 X59W-49UR85300CM VF 3 13 X59W-44.52H85300CM P 3 14 X59W-44.52H85300CM P 3 15 X59W-44.52H853500CM P 3	Appearance	Cable specifications	Туре	Category	Cable sheath material	Cable length	Model			
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Cabinatio Cablog 5					PUR	3	XS6W-6PUR8SS300CM-YF			
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10 XS6W-6LSZH8SS1000CM-G 15 XS6W-6LSZH8SS1500CM-G 20 XS6W-6LSZH8SS2000CM-G 20 XS6W-5LSZH8SS2000CM-G 1 XS6W-5PUR8SS50CM-G 1 XS6W-5PUR8SS100CM-G 1.5 XS6W-5PUR8SS150CM-G 1.5 XS6W-5PUR8SS150CM-G 2 XS6W-5PUR8SS150CM-G 2 XS6W-5PUR8SS150CM-G 3 XS6W-5PUR8SS100CM-G 5 XS6W-5PUR8SS500CM-G 7.5 XS6W-5PUR8SS750CM-G 10 XS6W-5PUR8SS1000CM-G 15 XS6W-5PUR8SS1500CM-G										
15 XS6W-6LSZH8SS1500CM-G 20 XS6W-6LSZH8SS2000CM-G 20 XS6W-6LSZH8SS2000CM-G 1 XS6W-5PUR8SS50CM-G 1 XS6W-5PUR8SS1500CM-G 1.5 XS6W-5PUR8SS1500CM-G 1.5 XS6W-5PUR8SS1500CM-G 1.5 XS6W-5PUR8SS1500CM-G 3 XS6W-5PUR8SS200CM-G 5 XS6W-5PUR8SS300CM-G 5 XS6W-5PUR8SS500CM-G 10 XS6W-5PUR8SS1000CM-G 15 XS6W-5PUR8SS1500CM-G										
Cat5 20 XS6W-6LSZH8SS2000CM-G 1 XS6W-5PUR8SS100CM-G 1.5 XS6W-5PUR8SS100CM-G 1.5 XS6W-5PUR8SS100CM-G 2 XS6W-5PUR8SS200CM-G 3 XS6W-5PUR8SS200CM-G 5 XS6W-5PUR8SS500CM-G 5 XS6W-5PUR8SS500CM-G 10 XS6W-5PUR8SS100CM-G 10 XS6W-5PUR8SS100CM-G 15 XS6W-5PUR8SS1500CM-G										
Cat5 0.5 XS6W-5PUR8SS50CM-G 1 XS6W-5PUR8SS100CM-G 1.5 XS6W-5PUR8SS150CM-G 2 XS6W-5PUR8SS200CM-G 3 XS6W-5PUR8SS200CM-G 5 XS6W-5PUR8SS500CM-G 5 XS6W-5PUR8SS500CM-G 7.5 XS6W-5PUR8SS500CM-G 10 XS6W-5PUR8SS1000CM-G 15 XS6W-5PUR8SS1500CM-G										
Cat5 1 XS6W-5PUR8SS100CM-G 1.5 XS6W-5PUR8SS150CM-G 2 XS6W-5PUR8SS200CM-G 3 XS6W-5PUR8SS300CM-G 5 XS6W-5PUR8SS500CM-G 7.5 XS6W-5PUR8SS750CM-G 10 XS6W-5PUR8SS1000CM-G 15 XS6W-5PUR8SS1500CM-G		1								
Cat5 1.5 XS6W-5PUR8SS150CM-G 2 XS6W-5PUR8SS200CM-G 3 XS6W-5PUR8SS300CM-G 5 XS6W-5PUR8SS500CM-G 7.5 XS6W-5PUR8SS500CM-G 10 XS6W-5PUR8SS1000CM-G 15 XS6W-5PUR8SS1500CM-G										
Cat5 PUR 2 XS6W-5PUR8SS200CM-G 3 XS6W-5PUR8SS300CM-G 5 XS6W-5PUR8SS500CM-G 5 XS6W-5PUR8SS500CM-G 7.5 XS6W-5PUR8SS500CM-G 10 XS6W-5PUR8SS1000CM-G 10 XS6W-5PUR8SS1000CM-G 15 XS6W-5PUR8SS1500CM-G 15 XS6W-5PUR8SS1500CM-G		>								
Cat5 PUR 3 XS6W-5PUR8SS300CM-G 5 XS6W-5PUR8SS500CM-G 5 7.5 XS6W-5PUR8SS750CM-G 10 XS6W-5PUR8SS1000CM-G 15 XS6W-5PUR8SS1500CM-G										
Cat5 PUR 5 XS6W-5PUR8SS500CM-G 7.5 XS6W-5PUR8SS750CM-G 10 XS6W-5PUR8SS1000CM-G 10 XS6W-5PUR8SS1000CM-G 15 XS6W-5PUR8SS1500CM-G				_						
7.5 XS6W-5PUR8SS750CM-G 10 XS6W-5PUR8SS1000CM-G 15 XS6W-5PUR8SS1500CM-G				Cat5	PUR					
15 XS6W-5PUR8SS1500CM-G										
	1117°									
						15				
20 X56W-5PUR8552000CM-G						20	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	XS6W-5PUR8SS	XS6W-6PUR8SS			
Rated current		1 A (at 50°C)					
Rated voltage *		30 VDC					
Contact resistance		20 mΩ max.					
Insulation resistance	Э	500 MΩ min.					
Withstand voltage		1,000 VDC for 60 s (leakage current: 1 m	A max.)				
Ambient operating te	emperature	-20 to 75°C -40 to 80°C -30 to 75°C					
Ambient storage ten	nperature	-20 to 75°C -40 to 80°C -20 to 70°C					
Protective structure		IP20					

* Voltage varies by installation environment.

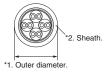
Materials and Finish

Connectors

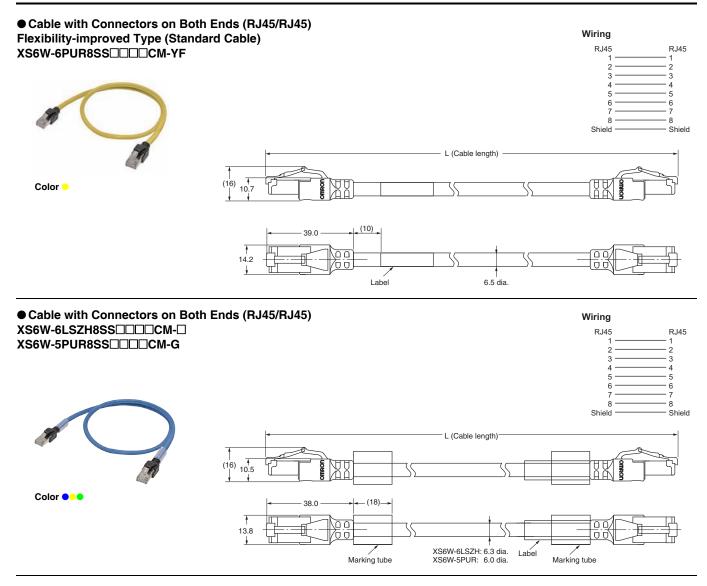
	Туре	Cable with Connectors on Both Ends (RJ45/RJ45)/LSZH	Cable with Connectors on Both Ends (RJ45/RJ45)/PUR					
Item	Model	XS6W-6LSZH8SS	XS6W-6LSZH8SSDDDCM-D XS6W-5PUR8SSDDDCM-G XS6W-6PUR8SSDDCM-YF					
Connector housing		PC resin	PC resin					
Contacts		Copper alloy/Gold plating						
Shield		Copper alloy/Nickel plating						
Anchors								
Anchors (tabs)								
Cover (structured to preven from breaking)	nt the tab	PA resin						
Marking tube		PVC resin						

Cables

	Туре	Cable with Connectors on Both Ends (RJ45/RJ45)/LSZH		ctors on Both Ends J45)/PUR	
Item	Model XS6W-6LSZH8SS		XS6W-5PUR8SS	XS6W-6PUR8SS	
Compliant standard		IEC 60332-1 /UL444	IEC 60332-1	IEC 61156-6, IEC11801, IEC 60332-1	
Category		Cat6A	Cat5	Cat6A	
Number of cores		AWG26			
Outer diameter *1		6.3 dia.	6.0 dia.	6.5 dia.	
Sheath color *2		Blue, Yellow, Green	Green	Yellow	
Sheath material		LSZH	PUR		
Shield structure		Single shield	Double shield		



Dimensions



Cables with Rugged RJ45 Connectors, and Cables with M12 Connectors (Round Water-resistant Connectors)

Model Number Structure

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



0 Connector Shape

H: Cable with plug on one end W: Cable with connectors on both ends

- 2Type
- T: Ethernet

3Number of Pins

4: 4 pins

4Contact Plating Specification

2: Gold plating

⑤Cable Attachment Direction (M12 Connectors)

- 1: Straight
- 2: Right angle

6Cable Length

A: 0.3 m	J: 10 m
B: 0.5 m	K: 15 m
C: 1 m	L: 20 m
D: 2 m	T: 25 m
E: 3 m	N: 30 m
F: 4 m	Z: 35 m
W: 4.5 m	P: 40 m
G: 5 m	X: 50 m

OConnector Shape

- 0: M12 plug on one end
- 1: Connectors on both ends: M12 socket/M12 plug
- 2: Connectors on both ends: M12 plug/M12 plug
- 3: Connections on both ends: M12 socket/M12 socket
- C: Connectors on both ends: M12 plug/RJ45 plug
- D: Connectors on both ends: RJ45 plug/RJ45 plug
- E: 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 model

(Standard cable, Cable color: Black)

Note.M12 connector locking type is D-coding.

RJ45 Assembly Connectors

XS6G-T 4 2 1-1 1 2 3 4 5

①Type

T: Ethernet

②Number of Pins

4: 4 pins

- **3**Contact Plating Specification
- 2: Gold plating
- **4**Cable Attachment Direction
- 1: Straight

5Degree of Protection

1: IP20

• M12 Connectors for Panel Mounting

①**Type**

T: Ethernet

②Number of Pins

- 4: 4 pins
- ③Plating Specification2: Gold plating

Mounting Method

- 6: Rear lockingt
- 7: Front locking
- 8: Rear lockingt (with connector anti-rotation mechanism)

⑤Terminal Shape

- 1: DIP terminalst
- 5: Cable with loose wires (0.5 m)

Ordering Information

Appearance	Cable specifications	Category	Cable sheath material	Туре	Cable length (m)	Model
					0.5	XS5H-T421-BM0-K XS5H-T421-CM0-K
				Cable with Plug	2	XS5H-T421-DM0-K
				on One End	3	XS5H-T421-EM0-K
				(M12 Straight)	5	XS5H-T421-GM0-K
					10	XS5H-T421-JM0-K
Color •					15	XS5H-T421-KM0-K
	-				0.5	XS5W-T421-BM2-K
					1	XS5W-T421-CM2-K
					2	XS5W-T421-DM2-K
1					3	XS5W-T421-EM2-K
					5	XS5W-T421-GM2-K
				Cable with Plugs	10	XS5W-T421-JM2-K
				on Both Ends	15	XS5W-T421-KM2-K
				(M12 Straight/M12 Straight)	0.3	XS5W-T421-AM2-Y
STOR .					0.5	XS5W-T421-BM2-Y
Color ••					1	XS5W-T421-CM2-Y
					2	XS5W-T421-DM2-Y
					3	XS5W-T421-EM2-Y
					5	XS5W-T421-GM2-Y
					0.3	XS5W-T421-AMC-K
					0.5	XS5W-T421-BMC-K
					1	XS5W-T421-CMC-K
					2	XS5W-T421-DMC-K
					3	XS5W-T421-EMC-K
					5	XS5W-T421-GMC-K
				Cable with Plugs	10	XS5W-T421-JMC-K
				on Both Ends	15	XS5W-T421-KMC-K
				(M12 Straight/RJ45)		
Color					0.3	XS5W-T421-AMC-Y
					0.5	XS5W-T421-BMC-Y
					1	XS5W-T421-CMC-Y
					2	XS5W-T421-DMC-Y
	Standard	Cat5e	PVC		3	XS5W-T421-EMC-Y
	Cable	Calse	PVC		5	XS5W-T421-GMC-Y
					0.3	XS5H-T422-AM0-K
					0.5	XS5H-T422-BM0-K
					1	XS5H-T422-CM0-K
				Cable with Plug	2	XS5H-T422-DM0-K
				on One End	3	XS5H-T422-EM0-K
				(M12 Right-angle)		
Color •					5	XS5H-T422-GM0-K
					10	XS5H-T422-JM0-K
					15	XS5H-T422-KM0-K
					0.3	XS5W-T422-AM2-K
					0.5	XS5H-T422-BM2-K
				Cable with Plugs	1	XS5W-T422-CM2-K
				on Both Ends	2	XS5W-T422-DM2-K
				(M12 Right-angle/	3	XS5W-T422-EM2-K
🐨 🕊 🖊				M12 Right-angle)	5	XS5W-T422-GM2-K
Color					10	XS5W-T422-JM2-K
					10	XS5W-T422-JM2-K XS5W-T422-KM2-K
					0.3	XS5W-T422-AMC-K
					0.5	XS5W-T422-BMC-K
				Cable with Divers	1	XS5W-T422-CMC-K
				Cable with Plugs on Both Ends	2	XS5W-T422-DMC-K
				(M12 Right-angle/RJ45)	3	XS5W-T422-EMC-K
w				(m. 2 1 ign angic/10+0)	5	XS5W-T422-GMC-K
Color •					10	XS5W-T422-JMC-K
					15	XS5W-T422-KMC-K
					0.3	XS5W-T421-AMD-K
					0.5	XS5W-T421-BMD-K
				Cable with Diver	1	XS5W-T421-CMD-K
				Cable with Plugs on Both Ends	2	XS5W-T421-DMD-K
				(RJ45/RJ45)	3	XS5W-T421-EMD-K
					5	XS5W-T421-GMD-K
Color •					10	XS5W-T421-JMD-K
					15	XS5W-T421-KMD-K
			1		15	A0011 1721-NWD-N

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Color 0.0 </th <th>Appearance</th> <th>Cable specifications</th> <th>Category</th> <th>Cable sheath material</th> <th>Туре</th> <th>Cable length (m)</th> <th>Model</th>	Appearance	Cable specifications	Category	Cable sheath material	Туре	Cable length (m)	Model					
Color Sundard 2 X5897-742-1001-K Color Sundard 5 X5897-742-1001-K Color Sundard 5 X5897-742-1001-K Color Sundard 1 X5897-742-1001-K Color 1 X5897-742-1001-K 1 Color 1 X5897-742-1001-K <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>XS5W-T421-BM1-K</td>							XS5W-T421-BM1-K					
Color 5 SSSW-7421-KM1-K Color 0 0-0-E End and Societ on Other End (M12 SmightM12 Smight) 5 SSSW-7421-KM1-K Color 0 0-0-E End and Societ on Other End (M12 SmightM12 Smight) 5 SSSW-7421-KM1-K Color 0 0-0-E End and Societ on Other End (M12 SmightM12 Smight) 5 SSSW-7421-KM1-K Color 0 SSSW-7421-KM1-K 0 SSSW-7421-KM1-K 0 SSSW-7421-KM1-K SSSW-7421-KM1-K SSSW-7421-KM1-K						1	XS5W-T421-CM1-K					
Color 3 Stability 3 Stability 3 Stability Stability Stability 3 Stability						2	XS5W-T421-DM1-K					
Color 5 XSSW-T421-6M1-K Color 5 XSSW-T421-6M1-K Color 15 XSSW-T421-6M1-K Color 1 XSSW-T421-6M1-K Color 0 SSSW-T421-6M1-K Color 0 SSSW-T						3	XS5W-T421-EM1-K					
Color 0 10 1250/17421-MD1-K Color 0 10 15 1550/17421-MD1-K Color Color 0 10 15 1550/17421-MD1-K Color Color 0 10 15 1550/17421-MD1-K Color Color 0 10												
Cutor 15 4580-7221-4081-K Standard 5 5580-7221-6082-K Color 1 2580-7221-6082-K Color 1 5850-7221-6082-K Color 0.5 5850-7221-6082-K	Order O											
Sandard Cable Sandard Cable 0.5 XSSW-T421-MBE-K 2 Cable with Plug Socket on Chive End Socket Chive End Socket On Chive End Socket Ch	Color											
Standard Cable Standard Cable		-										
Cable with Plug Color Cable with Plug Color 2 XSSW-T421-DME-K Socket on Other End Socket on Other End (M12 Straight/M12) Straight 2 XSSW-T421-DME-K Socket on Other End (M12 Straight/M12) Straight Color Color 0 XSSW-T421-DME-K Socket on Other End on Both Ends (M12 Straight/M12) Straight 1 XSSW-T421-DME-K Socket on Other End on Both Ends (M12 Straight/M12) Straight Color 0.5 XSSW-T421-DME-K Other End on Both Ends (M12 Straight/M12) Straight 0.5 XSSW-T421-DME-K Socket on Other End on Both Ends (M12 Straight/M12) Straight Color on Color FVC Cable with Plug Socket on Other End on Both Ends (M12 Straight/M12 Straight) 0.5 XSSW-T421-DMI-KR 0 Color on Color FVC FVC Cable with Plug Socket on Other End on Both Ends (M12 Straight/M12 Straight) 0.5 XSSW-T421-DMI-KR 0 Color on Color FVC Cable with Plug Socket on Other End on Both Ends (M12 Straight/M12 Straight) 1 XSSW-T421-DM2-KR 3 XSSW-T421-DM2-KR 3 Color on Color		a										
Color 3 XSSW-7421-RBE-X 5 XSSW-7421-RBE-X 5 Color 0 YSSW-7421-RBE-X 5 XSSW-7421-RBE-X 5 XSSW-7421-RBE-X 5 Color 0 YSSW-7421-RBE-X 5 XSSW-7421-RBE-X 5 XSSW-7421-RBE-X 5 Color 0 YSSW-7421-RBE-X 5 XSSW-7421-RBE-X 5 XSSW-7421-RBE-X 5 Color 0 SSSW-7421-RBE-X 5 XSSW-7421-RBE-X 5 XSSW-7421-RBE-X 5 Color 0 SSSW-7421-RBE-X 5 XSSW-7421-RBE-X 5 XSSW-7421-RBE-X 5 Color 0 SSSW-7421-RBE-X 5 XSSW-7421-RBE-X 7					Cable with Plug							
Color 5 XS5W-7421-008-K Color 5 XS5W-7421-008-K Color 15 XS5W-7421-008-K Color 13 XS5W-7421-008-K Color 1 XS5W-7421-008-K Color 1 XS5W-7421-008-K Color 0.5 XS5W-7421-008-K 0.5 XS5W-7421-008-K 0 0.5 XS5W-7421-008-K 0 0.5 XS5W-7421-008-K 0 0.5 XS5W-742		Cable			on One End and							
Color 10 XSSW-1421-MIE-K Color 11 XSSW-1421-MIE-K Color 11 XSSW-1421-MIE-K Color 0.5 XSSW-1421-MIE-K Color												
Color 15 X55W-T421-KME-K Color 1 X55W-T421-CMI-KR Color 2 X55W-T421-CMI-KR Color 0.5 X55W-T421-DMI-KR Color 1 X55W-T421-DMI-KR X55W-T421-DMI-KR 1 X55W-T421-DMI-KR X55W-T421-DMI-KR 1 X55W-T421-DMI-KR X55W-T421-DMI-KR 1 X55W-T421-DMI-KR </td <td></td> <td></td> <td></td> <td></td> <td>(M12 Straight/RJ45)</td> <td></td> <td></td>					(M12 Straight/RJ45)							
Cable with Plug on Color 1 X55W-T421-DM3-K Color 0.5 X55W-T421-DM1-KR Color 0.5 X55W-T421-DM1-KR 0.5 X55W-T421-DM1-KR 1 0.5 X55W-T421-DM1-KR 3 0.5 X55W-T421-DM1-KR 10 0.5 X55W-T421-DM1-KR 10 0.5 X55W-T421-DM1-KR 10 0.5 X55W-T421-DM1-KR 10 0.5 X55W-T421-DM2-KR 10 10 X55W-T421-DM2-KR 3 11 X55W-T421-DM2-KR 10 10 X55W-T421-DM2-KR 3 10 X55W-T421-DM2-KR 1 10 X55W-T421-DM2-KR 3 10 X55W-T421-DM2-KR 1 10 X55W-T421-DM2-KR 3 10 X55W-T421-D	Color •											
Color Color <td< td=""><td></td><td>-</td><td></td><td></td><td></td><td>15</td><td>X55W-1421-KIME-K</td></td<>		-				15	X55W-1421-KIME-K					
Color 0.5 X55WT421-BM1-KP Color 0.5 X55WT421-BM1-KP Color 0.5 X55WT421-BM1-KP Color 1 X55WT421-BM1-KP Color 0.5 X55WT421-BM1-KP Color 0.5 X55WT421-BM1-KP Color 0.5 X55WT421-BM2-KP VC Catise PVC 0.5 X55WT421-BM2-KP Color 0.5 X55WT421-BM2-KP 1 X55WT421-BM2-KP V1 X55WT421-BM2-KP 1 X55WT421-BM2-KP 1 X55WT421-BM2-KP 1 X55WT421-BM2-KP 1 X55WT421-BM2-KP Color 0 S5 X55WT421-BM2-KP 1 X55WT421-BM2-KP Color 0												
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Color 10 XS5W-T421-JMC-YR 15 XS5W-T421-LMC-YR 20 XS5W-T421-LMC-YR 20 XS5W-T421-LMC-YR 20 XS5W-T421-BMD-KR 1 XS5W-T421-OMD-KR 2 XS5W-T421-DMD-KR 3 XS5W-T421-OMD-KR 10 XS5W-T421-OMD-KR 10 XS5W-T421-OMD-KR 10 XS5W-T421-OMD-KR 11 XS5W-T421-GMD-KR 15 XS5W-T421-GMD-KR 15 XS5W-T421-MD-KR 16 XS5W-T421-CMD-YR 17 XS5W-T421-CMD-YR 18 XS5W-T421-CMD-YR 19 XS5W-T421-CMD-YR 10 XS5W-T421-CMD-YR 11 XS5W-T421-CMD-YR 12 XS5W-T421-CMD-YR 13 XS5W-T421-CMD-YR 13 XS5W-T421-CMD-YR 15 XS5W-T421-CMD-YR 15 XS5W-T421-CMD-YR 15 XS5W-T421-CMD-YR 15 XS5W-T421-CMD-YR 15 XS5W-T421-CMD												
Color 15 XS5W-T421-KMC-YR 20 XS5W-T421-LMC-YR 20 XS5W-T421-BMD-KR 1 XS5W-T421-DMD-KR 2 XS5W-T421-DMD-KR 3 XS5W-T421-GMD-KR 10 XS5W-T421-GMD-KR 10 XS5W-T421-GMD-KR 15 XS5W-T421-GMD-KR 10 XS5W-T421-GMD-KR 11 XS5W-T421-GMD-KR 12 XS5W-T421-GMD-KR 13 XS5W-T421-GMD-KR 14 XS5W-T421-GMD-YR 15 XS5W-T421-BMD-YR 15 XS5W-T421-CMD-YR 16 XS5W-T421-CMD-YR 17 XS5W-T421-CMD-YR 18 XS5W-T421-DMD-YR 19 XS5W-T421-CMD-YR 10 XS5W-T421-DMD-YR 11 XS5W-T421-CMD-YR 12 XS5W-T421-DMD-YR 13 XS5W-T421-CMD-YR 15 XS5W-T421-GMD-YR 15 XS5W-T421-GMD-YR	Color											
Color 20 XS5W-T421-LMC-YR 0.5 XS5W-T421-BMD-KR 1 XS5W-T421-CMD-KR 2 XS5W-T421-DMD-KR 3 XS5W-T421-CMD-KR 5 XS5W-T421-GMD-KR 10 XS5W-T421-GMD-KR 10 XS5W-T421-JMD-KR 11 XS5W-T421-GMD-KR 10 XS5W-T421-JMD-KR 11 XS5W-T421-JMD-KR 10 XS5W-T421-JMD-KR 15 XS5W-T421-BMD-YR 15 XS5W-T421-BMD-YR 11 XS5W-T421-BMD-YR 12 XS5W-T421-DMD-YR 13 XS5W-T421-DMD-YR 3 XS5W-T421-DMD-YR 3 XS5W-T421-DMD-YR 3 XS5W-T421-DMD-YR 3 XS5W-T421-DMD-YR 3 XS5W-T421-DMD-YR 3 XS5W-T421-EMD-YR 3 XS5W-T421-GMD-YR 5 XS5W-T421-GMD-YR												
Color 0.5 XS5W-T421-BMD-KR 1 XS5W-T421-CMD-KR 2 XS5W-T421-DMD-KR 3 XS5W-T421-DMD-KR 3 XS5W-T421-GMD-KR 5 XS5W-T421-GMD-KR 10 XS5W-T421-GMD-KR 10 XS5W-T421-JMD-KR 11 XS5W-T421-GMD-KR 10 XS5W-T421-JMD-KR 11 XS5W-T421-JMD-KR 15 XS5W-T421-BMD-YR 15 XS5W-T421-BMD-YR 1 XS5W-T421-CMD-YR 2 XS5W-T421-DMD-YR 3 XS5W-T421-DMD-YR 3 XS5W-T421-DMD-YR 3 XS5W-T421-DMD-YR 3 XS5W-T421-DMD-YR 3 XS5W-T421-DMD-YR 3 XS5W-T421-BMD-YR 5 XS5W-T421-GMD-YR												
Color 1 XS5W-T421-CMD-KR 2 XS5W-T421-DMD-KR 3 XS5W-T421-EMD-KR 5 XS5W-T421-GMD-KR 10 XS5W-T421-JMD-KR 15 XS5W-T421-JMD-KR 0.5 XS5W-T421-BMD-YR 1 XS5W-T421-BMD-YR 1 XS5W-T421-BMD-YR 2 XS5W-T421-BMD-YR 3 XS5W-T421-DMD-YR 3 XS5W-T421-BMD-YR 3 XS5W-T421-DMD-YR 5 XS5W-T421-BMD-YR 3 XS5W-T421-DMD-YR 5 XS5W-T421-BMD-YR 5 XS5W-T421-BMD-YR 5 XS5W-T421-GMD-YR												
Color 2 XS5W-T421-DMD-KR 3 XS5W-T421-EMD-KR 5 XS5W-T421-GMD-KR 10 XS5W-T421-JMD-KR 15 XS5W-T421-JMD-KR 0.5 XS5W-T421-BMD-YR 1 XS5W-T421-EMD-YR 2 XS5W-T421-DMD-YR 3 XS5W-T421-DMD-YR 3 XS5W-T421-BMD-YR 1 XS5W-T421-DMD-YR 3 XS5W-T421-DMD-YR 3 XS5W-T421-DMD-YR 5 XS5W-T421-BMD-YR												
Color 3 XS5W-T421-EMD-KR 5 XS5W-T421-GMD-KR 10 XS5W-T421-JMD-KR 15 XS5W-T421-JMD-KR 0.5 XS5W-T421-BMD-YR 1 XS5W-T421-BMD-YR 2 XS5W-T421-CMD-YR 3 XS5W-T421-DMD-YR 3 XS5W-T421-DMD-YR 5 XS5W-T421-DMD-YR 5 XS5W-T421-BMD-YR												
Color 5 XS5W-T421-GMD-KR 10 XS5W-T421-JMD-KR 15 XS5W-T421-JMD-KR 0.5 XS5W-T421-BMD-YR 1 XS5W-T421-CMD-YR 2 XS5W-T421-DMD-YR 3 XS5W-T421-DMD-YR 5 XS5W-T421-DMD-YR 3 XS5W-T421-EMD-YR 5 XS5W-T421-GMD-YR												
Color Cable with Plugs on Both Ends (RJ45/RJ45) 10 XS5W-T421-JMD-KR 0.5 XS5W-T421-BMD-YR 15 XS5W-T421-BMD-YR 1 XS5W-T421-CMD-YR 2 XS5W-T421-DMD-YR 3 XS5W-T421-EMD-YR 3 XS5W-T421-EMD-YR 5 XS5W-T421-GMD-YR 5 XS5W-T421-GMD-YR	1											
Color on Both Ends (RJ45/RJ45) 15 XS5W-T421-KMD-KR 0.5 XS5W-T421-BMD-YR 1 XS5W-T421-CMD-YR 2 XS5W-T421-DMD-YR 2 XS5W-T421-DMD-YR 3 XS5W-T421-EMD-YR 5 XS5W-T421-GMD-YR												
Color 0.5 XS5W-T421-BMD-YR 1 XS5W-T421-CMD-YR 2 XS5W-T421-DMD-YR 3 XS5W-T421-EMD-YR 5 XS5W-T421-GMD-YR	*0				on Both Ends							
Color 1 XS5W-T421-CMD-YR 2 XS5W-T421-DMD-YR 3 XS5W-T421-EMD-YR 5 XS5W-T421-GMD-YR					(RJ45/RJ45)							
2 XS5W-T421-DMD-YR 3 XS5W-T421-EMD-YR 5 XS5W-T421-GMD-YR												
3 XS5W-T421-EMD-YR 5 XS5W-T421-GMD-YR	Color 🔍											
5 XS5W-T421-GMD-YR												
	Nete For achie langel - 1 - 1 - 1	interdiction (5	XS5W-1421-GMD-YR					

Note.For cable lengths other than those listed above, refer to page 25.

Appearance	Cable specifications	Category	Cable sheath material		Туре	Cable length (m)	Model		
								0.5	XS5W-T421-BM2-SS
1. Ter							XS5W-T421-CM2-SS		
					with Plugs Both Ends	2	XS5W-T421-DM2-SS		
				-	ht/M12 Straight)	3	XS5W-T421-EM2-SS		
	Shield					5	XS5W-T421-GM2-SS		
Color •	Strengthening	0-15-	DV/O			10	XS5W-T421-JM2-SS		
	model (Standard	Cat5e	PVC			0.5	XS5W-T421-BMC-SS		
	cable)					1	XS5W-T421-CMC-SS		
				Cable with Plugs on Both Ends (M12 Straight/RJ45)		2	XS5W-T421-DMC-SS		
						3	XS5W-T421-EMC-SS		
Color						5	XS5W-T421-GMC-SS		
						10	XS5W-T421-JMC-SS		
		Cat5		RJ45 Assembly Connector			XS6G-T421-1		
			-		Rear locking	0.5	XS5P-T426-5		
		Cat5e			M12 Connector for Panel Mounting *	Rear locking (with connector anti-rotation mechanism)	0.5	XS5P-T428-5	
				9	Front locking	0.5	XS5P-T427-5		
				M12 Panel-mounting PCB Straight Terminals *			XS5P-T426-1		

Note.Please consult with OMRON for types other than the above.

The rear locking type is attached from the front of the panel, and the nut is tightened from the back.

The front locking type is attached from the back of the panel, and the nut is tightened from the front.

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

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

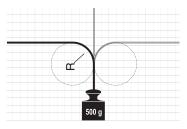
Number of bends: 20 million min.



Speed: Approx. 120 m/minute Distance moved: 1 m Cableveyor radius: 75 mm

90° bending test

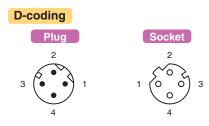
Number of bends: 6 million min.



Bending angle: ±90° Bending rate: Approx. 30 times/minute Roll radius: 60 mm Load: 500 g

• IEC 61076-2-101 Compliant M12 Connector Pinout Diagram (from Mating Side) Coding refers to the shape of the connector mating part, which prevents incorrect mating.

The mating shape of M12 connectors for Ethernet is D-coding.



Specifications

	Туре	M12	RJ45 (including RJ45/M12 Connector cable type)	M12 Connectors for Panel Mounting		
Item	Model	XS5H-T42□-□M0-K XS5W-T42□-□M1-□□ XS5W-T42□-□M2-□□ XS5W-T42□-□M3-□□	XS5W-T42MC XS5W-T42MD XS5W-T42ME XS6G-T421-1	XS5P-T42⊡-5 XS5P-T426-1		
Rated current		3 A 2.5 A		4 A		
Rated voltage *1		30 VDC		125 VDC		
Contact resistance		40 mΩ max.				
Insulation resistance		1,000 MΩ min.	500 MΩ min.	1,000 MΩ min.		
Withstand voltage		1,000 VAC for 60 s (leakage current: 1 mA max.) 1,500 VAC for 60 s (leakage current: 1 mA max.)				
Ambient operating temp	erature	-25 to 70°C *2				
Ambient storage temper	ature	–25 to 70°C				
Protective structure		M12: IEC IP67, RJ45: IEC IP20				

*1. Voltage varies by installation environment.
*2. Use robot cable within a temperature range of 0 to 70°C to avoid wire breakage when moving.

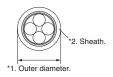
Materials and Finish

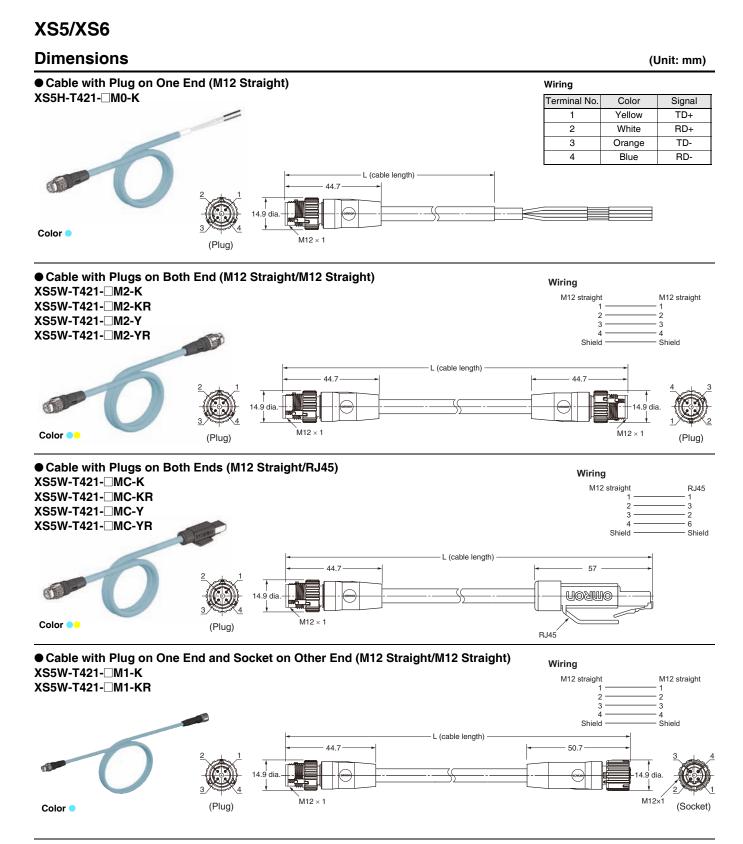
Connectors

Тур	e	M12									
Item Mode	XS5H/W-T	XS5W-T and XS6G									
Contact blocks	PBT resin	PBT resin PA resin									
Contacts	Copper alloy/Gold plating	Copper alloy/Gold plating									
Anchors	Zinc alloy/Nickel plating	Zinc alloy/Nickel plating									
Anchors (tabs)	Stainless										
Shield	Stainless	Stainless									
Cover	PBT resin	PBT resin									
Sealing resin		Epoxy resin									
O-rings	Rubber		•								
Grounding fixture		Copper alloy/Tin plating									
Anchor cover		Stainless									
Nuts		Copper alloy/Nickel plating									

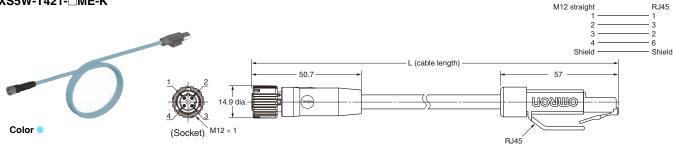
Cables

Model	Standard Cable	Robot Cable	Shield Strengthening Model (Standard Cable)					
Compliant standard								
Category	Cat5e							
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	Black						
Sheath material	PVC							
Shield structure	Double shield							



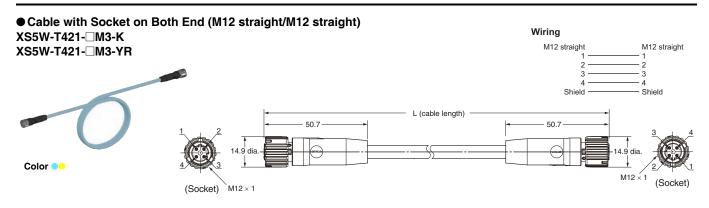


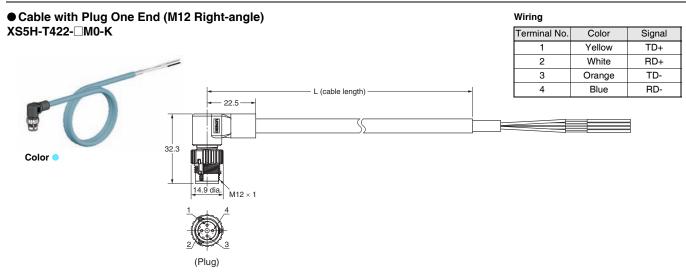
● Cable with Plug on One End and Socket on Other End (M12 Straight/RJ45) XS5W-T421-□ME-K

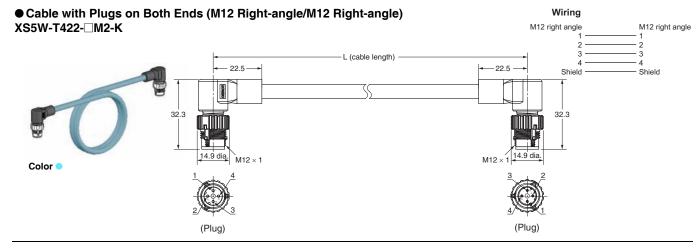


Wiring

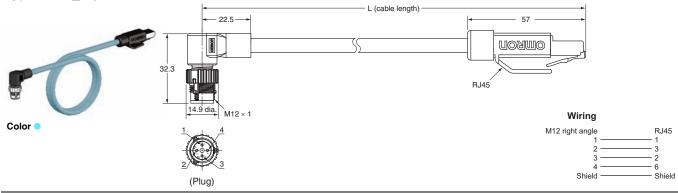
20

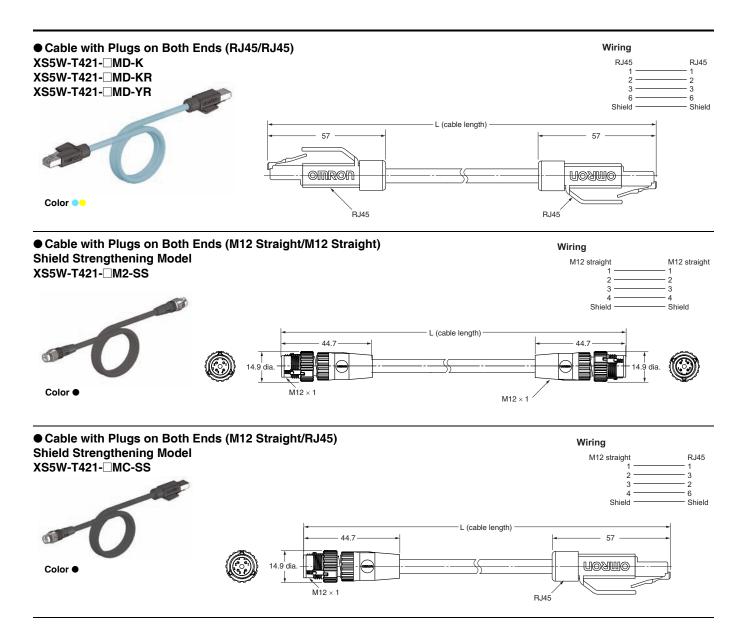


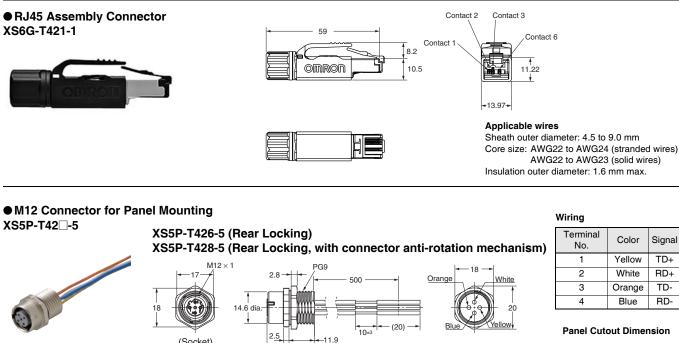




● Cable with Plugs on Both Ends (M12 Right-angle/RJ45) XS5W-T422-□MC-K







22.1

PG9

2.8

10.5

500

10±

-2.5

Orange

(20)

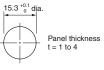
White

Yellow

Mounting Hole Dimensions Mounting Hole Dimensions

XS5P-T427-5 (Front Locking)

13.9['] dia



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

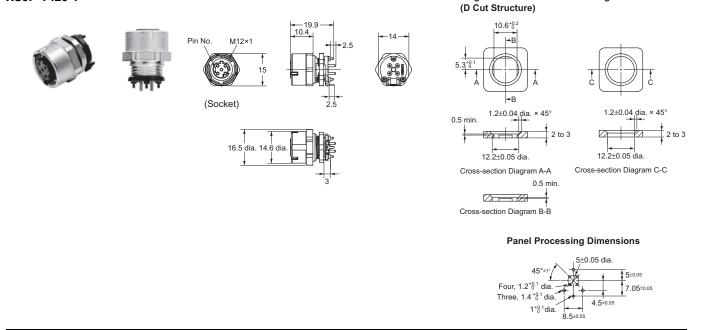
20

(Socket)

18

(Socket)

M12 × 1



Assembly Procedure

• RJ45 Assembly Connectors XS6G-T421-1

- 1. Pass the cable through the cable clamp and the connector housing
- 2. Strip the cable sheath and ground braiding to the correct lengths.
- 3. Follow the color codes and prepare to insert the wires into the splice piece.
- 4. Insert the wires into the splice piece for the length of the splice piece.
- 5. 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.
- 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.
- Place the upper screen plate on the data module and press it over the ground braiding of the cable.
- 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

Function/Signal	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 delivered.

 Panel-mounting Parts
 PCB-mounting Part

 1. Anchor
 2. O-Ring
 3. Nut
 4. Connector



Assembly Procedure

1. Mount the connector to the PCB.

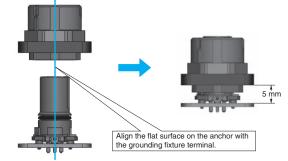
2. Attach the anchor to the panel with the nut.

Mounting the Connector to the PCB Mounting the Anchor to the Panel





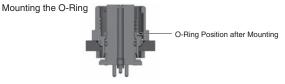
 Attach the connector that you mounted to the PCB to the panel.
 * Make sure that the connector and anchor are oriented correctly. Attachment



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

List of Main Types of Cables with Connectors

•XS6 Series

	ctors on ends	Cables	Sheath	Sheath	Cable		Model number structure																	
Connectors (1)	Connectors (2)	Cables	material	color	olor specifications		0.3	0.5	1	1.5	2	3	5	7.5	10	15	20							
			PUR	Yellow	Flexibility improved	20	30	50	100	150	200	300	500	750	1000	1500	2000	XS6W-6PUR8SS[]CM-YF						
		Cat6A,	Cat6A, AWG26×4Pairs							Blue	Standard	20	30	50	100	150	200	300	500	750	1000	1500	2000	XS6W-6LSZH8SS[]CM-B
RJ45 plug	RJ45 plug	AWG20X4Fails		LSZH	LSZH	LSZH	LSZH	LSZH	LSZH	Yellow	Standard	20	30	50	100	150	200	300	500	750	1000	1500	2000	XS6W-6LSZH8SS[]CM-Y
P9	p9			Green	Standard	20	30	50	100	150	200	300	500	750	1000	1500	2000	XS6W-6LSZH8SS[]CM-G						
		Cat5, AWG26×4Pairs	PUR	Green	Standard			50	100	150	200	300	500	750	1000	1500	2000	XS6W-5PUR8SS[]CM-G						

Note. The numerals indicating the cable length as shown in the table are entered at the [...] position in the model number structure.

● XS5□-T Series

Connec both		Cablas	Sheath	Sheath	Cable									Ca	ble le	ngth	(m)												
Connectors (1)	Connectors (2)	Cables	material	color	color	color	specifications	0.3	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	10	15	20	25	30	35	40	45	50	 Model number structure 	
				Light blue	Standard	А	в	С		D		Е				G	J	к	L	т	N	z	Ρ	R	х	XS5W-T421-[]MD-K			
RJ45 plug	RJ45 plug			Light blue	Flexible robot		в	С	Y	D	U	Е	×	F	w	G	J	к	L	т	Ν				х	XS5W-T421-[]MD-KR			
				Yellow	Flexible robot		в	С		D		Е				G										XS5W-T421-[]MD-YR			
				Light blue	Standard	А	в	С	Y	D	U	Е	v	F	w	G	J	к	L	т	Ν				х	ХS5W-T421-[]MC-К			
				Yellow	Standard	А	В	С	1	D		Е	-			G										XS5W-T421-[]MC-Y			
RJ45	M12 plug			Black	Standard		В	С	-	D		Е				G	J									XS5W-T421-[]MC-SS			
plug	Straight			Light blue	Flexible robot		в	С	Y	D	U	Е	V	F	w	G	J	к	L	т	N				х	XS5W-T421-[]MC-KR			
				Yellow	Flexible robot							Е				G	J	к	L	т						XS5W-T421-[]MC-YR			
RJ45 plug	M12 plug Right angle			Light blue	Standard	А	в	С	Y	D	U	Е	v			G	J	к								XS5W-T422-[]MC-K			
RJ45 plug	M12 socket Straight	Cat5e, AWG22 ×	PVC	Light blue	Standard		в	с	Y	D	U	Е	v	F	w	G	J	к	L	т	N				x	XS5W-T421-[]ME-K			
		2Pairs		Light blue	Standard		в	С	Y	D	U	Е	v	F	w	G	J	к	L	т	N				х	XS5W-T421-[]M2-K			
							Yellow	Standard	Α	В	С		D		Е				G										XS5W-T421-[]M2-Y
M12 plug Straight	M12 plug Straight										Black	Standard		В	С		D		Е				G	J					
Ottaight	Graight			Light blue	Flexible robot		в	С	Y	D	U	Е	v	F	w	G	J	к	L	т	Ν				х	XS5W-T421-[]M2-KR			
				Yellow	Flexible robot			С		D		Е				G	J	к								XS5W-T421-[]M2-YR			
M12 plug Right angle	M12 plug Right angle			Light blue	Standard	А	в	С	Y	D		Е				G	J	к								XS5W-T422-[]M2-K			
M12 socket	M12 socket			Light blue	Standard			С		D																Х\$5₩-Т421-[]МЗ-К			
Straight	Straight			Yellow	Flexible robot		в																			XS5W-T421-[]M3-YR			
M12 plug	M12 socket					Light blue	Standard		в	С	Y	D	U	Е	v	F	w	G	J	к	L	т	Ν				х	XS5W-T421-[]M1-K	
Straight	Straight				Light blue	Flexible robot		в	С	Y	D	U	Е	v	F	w	G	J	к	L	т	Ν				х	XS5W-T421-[]M1-KR		
Connec one		Cables	Sheath	Sheath	Cable		Cable length (m)								Model number structure														
Connectors (1)	Connectors (2)		material	color	specifications	0.3	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	10	15	20	25	30	35	40	45	50				
M12 plug Straight		Cat5e, AWG22	D) (0	Light blue	Standard		в	С		D		Е				G	J	к								XS5H-T421-[]M0-K			
M12 plug Right angle		× 2Pairs	PVC	Light blue	Standard	А	в	С		D		Е				G	J	к								XS5H-T422-[]M0-K			

 angle
 21 and 21 and

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.

Disposal

Dispose of this product as industrial waste.

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 a sensor or switch is not attached during installation, or if the plug connector is not engaged, use a waterproof cover or dust cover to protect the mating surface of the connector.

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. Confirm that connections are possible before use.
- 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)

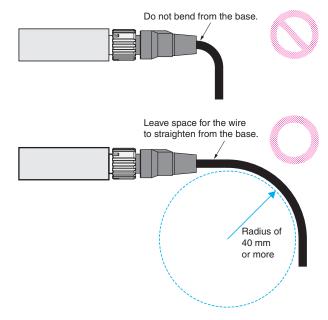
• The degree of protection of Connectors (IP67) is not for a fully watertight structure. Do not use the Connectors underwater.

Setup

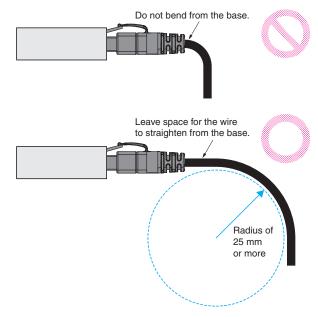
• Do not install the Connectors or cables in any way that would place a load directly on the mating section or cable connections.

Doing so can damage the Connectors or break the wires inside the cables.

• If bending XS5H/W-T cable, ensure that the minimum bend radius is 40 mm.



• If bending XS6W-6LSZH/5PUR cable, ensure that the minimum bend radius is 25 mm.



• If bending XS6W-6PUR cable, ensure that the minimum bend radius is 52 mm.

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