Waterproof Sensor I/O Connectors XS5

Waterproof Smartclick Connectors That Reduce Installation Work

- A newly developed lock structure that maintains compatibility with conventional, screw-type M12 connectors
- Completely compatible with conventional screw-type 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 conventional, screw-type M12 connectors.



■ 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 M Ω 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 min.
Lock strength	Pulling: 100 N/15 s, Twisting: 1 N·m/15 s
Cable holding strength	100 N/15 s (for cable diameter of 6 mm)
Lock operating force	0.1 N·m to 0.25 N·m
Ambient temperature range	Operating: –25°C to 70°C

■ Materials and Finish

Item	Model	XS5F XS5H XS5W				
Contac	ots	Phosphor bronze/nickel base, 0.4-μm gold-plating		, 0.4-μm		
Fixture	es	Nickel-plated zinc alloy				
Pin Blo	ock	PBT resin (UL	94V-0)			
Cover		Polyester elastomer (UL94V-0)				
O-ring		Rubber				
Cable Standard cable Vibration-proof robot cable Oil-resistant polyurethane cable		UL AWM2464 4 cores × AWC				
		UL AWM2464 4 cores × AWC	, 6-mm dia. 3200 (0.08/110)		
		6 dia. 4 cores × 0.5 r	mm² (0.12/45)			

■ Connection Combinations

OMRON model No.		Smartclick Plug Connectors	M12 Plug Connectors
		XS5H, XS5W (plug side)	XS2H, XS2G XS2W (plug side), XS2R (plug side), XS2M
Smartclick Socket Connectors	XS5F, XS5W (socket side)	©	0
M12 Socket Connectors	XS2F, XS2C, XS2W (socket side), XS2R (socket side), XS2P	•	0

O: Connected by twisting.

O: Connected by screwing.

Note: Smartclick is a registered trademark of the OMRON Corporation.

■ Probelm Solving

<u>1</u>

Problem	Solution
It is troublesome to screw the connectors together.	It's a twist-and-click connection.
	An innovative new lock structure makes connection extremely simple. The lock mechansim is internal, so it will no longer become jammed by sputtered fluids or dust. Also the use of a movable lock bolt makes it possible to connect the Smartclick XS5 to a screw-type M12 connector.

All combinations are connectable.

	XS5 Smartclick Plug Connector	M12 plug connector
XS5 Smartclick Socket Connector	Twist-and-click connection	Screw connection
M12 socket connector	Screw connection	Screw connection

<u>2</u>

Problem	Solution
There's nothing to tell you that it's connected.	The Smartclick XS5 "clicks" to tell you it's connected. A positive clicking feel tells you for sure that the Connector is securely locked.

<u>3</u>

Problem	Solution
It's difficult to keep track of locking torque values.	Locking is done with approximately 1/8th of a turn. The Smartclick XS5 has the industry's shortest locking rotation of 1/8th of a turn. There's no need to keep track of locking torque, and this greatly reduces time and effort when wiring.
	Insert all the way in. 1/8th of a turn

<u>4</u>

Problem	Solution
	A bayonet lock mechanism is used. By using a bayonet mechanism, which is a common locking method, the Smartclick XS5 eliminates any concerns about loosening.

Connectors Connected to Cable, Socket and Plug on Cable Ends **XS5W**

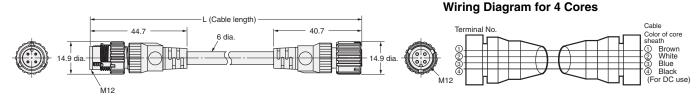
XS5W-D421- 81-A Standard Cable

XS5W-D421--81-F Vibration-proof Robot Cable

XS5W-D421-□81-P Oil-resistant Polyurethane Cable <u>NEW</u>



■ Dimensions



Note: The cover of the Standard Cable (XS5W-D421-\sum 81-A) is black, and the cover of the Vibration-proof Robot Cable (XS5W-D421-\sum 81-F) is warm gray.

■ Ordering Information

Cable type	Cable connection directions	No. of cable cores	Cable length (m)	Model	Minimum order
Standard cable	Straight/straight	4	1	XS5W-D421-C81-A	10
			2	XS5W-D421-D81-A	
			3	XS5W-D421-E81-A	
			5	XS5W-D421-G81-A	5
			10	XS5W-D421-J81-A	
Vibration-proof			1	XS5W-D421-C81-F	10
robot cable			2	XS5W-D421-D81-F	
			3	XS5W-D421-E81-F	
			5	XS5W-D421-G81-F	5
			10	XS5W-D421-J81-F	
Oil-resistant			2	XS5W-D421-D81-P	10
polyurethane			5	XS5W-D421-G81-P	5
cable <u>NEW</u>			10	XS5W-D421-J81-P	

Note: Ask your OMRON representative about other specifications.

■ Model Number Legend

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

1. Type

W: Connectors connected to cable, socket and plug on cable ends

2. AC/DC (Mating Section Form)

D: DC

3. Connector Poles

4: 4 poles

4. Contact Plating

0.4-μm gold plating

5. Cable Connection Directions

1: Straight/straight

6. Cable Length

A: 0.3 m G: 5 m B: 0.5 m H: 7 m C: 1 m 10 m D: K: 15 m E: 3 m 20 m F: 4 m

7. Connections

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

8. Connectors on One End/Both Ends

1: Both ends

9. Cable Specifications

A: Standard cable

F: Vibration-proof robot cable

P: Oil-resistant polyurethane cable

Connector Connected to Cable, Socket on One Cable End

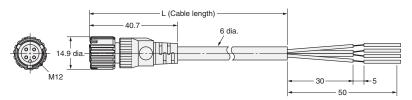
XS5F-D421- 80-A Standard Cable

XS5F-D421-□80-F Vibration-proof Robot Cable

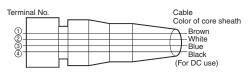
XS5F-D421- 80-P Oil-resistant Polyurethane Cable NEW



■ Dimensions



Wiring Diagram for 4 Cores



Note: The cover of the Standard Cable (XS5F-D421-□81-A) is black, and the cover of the Vibration-proof Robot Cable (XS5F-D421-□81-F) is warm gray.

■ Ordering Information

Cable type	Cable connection direction	No. of cable cores	Cable length (m)	Model	Minimum order
Standard cable	Straight	4	1	XS5F-D421-C80-A	10
			2	XS5F-D421-D80-A	
			3	XS5F-D421-E80-A	
			5	XS5F-D421-G80-A	5
			10	XS5F-D421-J80-A	
Vibration-proof			1	XS5F-D421-C80-F	10
robot cable			2	XS5F-D421-D80-F	
			3	XS5F-D421-E80-F	
			5	XS5F-D421-G80-F	5
			10	XS5F-D421-J80-F	
Oil-resistant			2	XS5F-D421-D80-P	10
polyurethane			5	XS5F-D421-G80-P	5
cable <u>NEW</u>			10	XS5F-D421-J80-P	

Note: Ask your OMRON representative about other specifications.

■ Model Number Legend

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

1. Type

F: Connector connected to cable, socket on one cable end

2. AC/DC (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

6. Cable Length

A: 0.3 m G: 5 m 0.5 m 7 m C: 1 m J: 10 m D: 2 m K: 15 m E: 3 m L: 20 m F: 4 m

7. Connections

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

8. Connectors on One End/Both Ends

0: One end

9. Cable Specification

A: Standard cable

F: Vibration-proof robot cable

P: Oil-resistant polyurethane cable

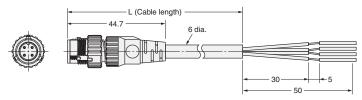
XS5H-D421
80-A Standard Cable

XS5H-D421--80-F Vibration-proof Robot Cable

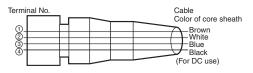
XS5H-D421- 80-P Oil-resistant Polyurethane Cable NEW



■ Dimensions



Wiring Diagram for 4 Cores



Note: The cover of the Standard Cable (XS5W-D421-\B1-A) is black, and the cover of the Vibration-proof Robot Cable (XS5W-D421-\B1-F) is warm gray.

■ Ordering Information

Cable type	Cable connection direction	No. of cable cores	Cable length (m)	Model	Minimum order
Standard cable	Straight	4	0.3	XS5H-D421-A80-A	10
			1	XS5H-D421-C80-A	
			2	XS5H-D421-D80-A	
			5	XS5H-D421-G80-A	5
Vibration-proof			0.3	XS5H-D421-A80-F	10
robot cable			1	XS5H-D421-C80-F	
			2	XS5H-D421-D80-F	
			5	XS5H-D421-G80-F	5
Oil-resistant			0.3	XS5H-D421-A80-P	10
polyurethane			2	XS5H-D421-D80-P	5
cable <u>NEW</u>			5	XS5H-D421-G80-P	

Note: Ask your OMRON representative about other specifications.

■ Model Number Legend

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

$$XS5H - \frac{21}{1} - \frac{0}{2345} - \frac{0}{678} - \frac{9}{9}$$

1. Type

F: Connector connected to cable, plug on one cable end

2. AC/DC (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

6. Cable Length

A:	0.3 m	G:	5 m
B:	0.5 m	H:	7 m
C:	1 m	J:	10 m
D:	2 m	K:	15 m
E:	3 m	L:	20 m
F:	4 m		

7. Connections

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

8. Connectors on One End/Both Ends

0: One end

9. Cable Specifications

A: Standard cable

F: Vibration-proof robot cable

P: Oil-resistant polyurethane cable

■ Connecting the Smartclick XS5

- 1. Connecting the Smartclick 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 Smartclick 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

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 by hand.
- 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.
- When joining the Connectors to XS2 or other M12 Connectors, tighten the lock by hand to a torque of 0.39 to 0.49 N⋅m.

Wiring

- Always confirm wiring diagrams before wiring sensors, limit switches, or other devices.
- 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

- The degree of protection of Connectors (IP67) is not for a fully watertight structure. Do not the Connectors underwater.
- Do not step on or place any objects on the Connectors. Doing so may damage the Connectors.
- The application examples provided in this catalog are for reference only. Check functions and safety of the equipment before use.
- Never use the products for any application requiring special safety requirements, such as nuclear energy control systems, railroad systems, aviation systems, medical equipment, amusement machines, vehicles, safety equipment, or other application involving serious risk to life or property, without ensuring that the system as a whole has been designed to address the risks, and that the OMRON products are properly rated and installed for the intended use within the overall equipment or system.

Omron Electronic Components, LLC

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- and the users must correlate it to actual application requirements.
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- our website for current information.



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