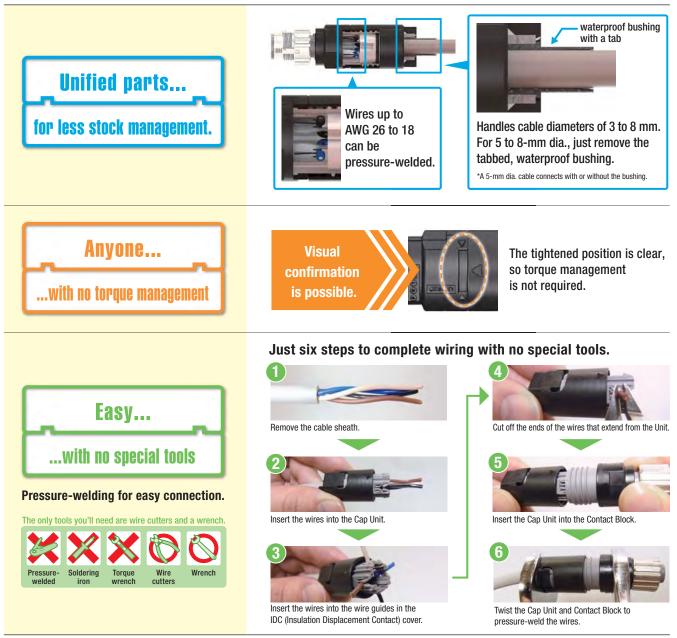


Sensor connection can be completed...

 easily	by anyone	with unified parts.

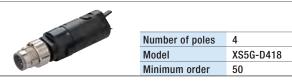


Features



Ordering Information

Plug



Ratings and Specifications

Rated current	4 A	
Rated voltage	250 VDC	
Contact resistance (connector)	40 mΩ max. (20 mV max., 100 mA max.) 1,500 VAC for 1 min (leakage current: 1 mA max.)	
Dielectric strength (connector)		
Degree of protection	IP67 (IEC60529)	
Insertion tolerance	olerance 50 times	
Lock strength	Tensile: 100 N/15 s, Torsion: 1 N·m/15 s	
	Cable diameter: Less than 4 mm 12 N/15	i s
Cable holding strength	4 mm to less than 6 mm 30 N/15	i S
	6 mm or larger 100 N/15	S
Ambient operating temperature range	-25 to 70 °C	
Number of pressure-weld repairs	10 times max. (Limited to the same external diameter and wire diameter	er.)

Socket

I



lumber of poles	4
lodel	XS5C-D418
Ainimum order	50

Materials and Finish

PBT resin (UL94V-0)
PBT resin (UL94V-0)
Phosphor bronze/nickel base
Gold-plated contacts (0.15 µm)
Nickel-plated zinc alloy
Rubber

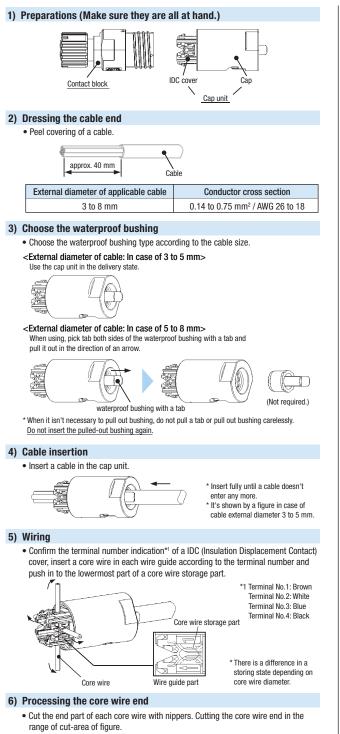
Recommended Cables Cable outer diameter 3 to 8 mm

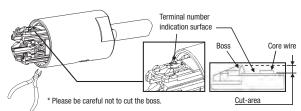
Core sizes	0.14 to 0.75 mm ² (AWG 26 to 18)	
Minimum wire diameter	0.08 mm	
Outer diameter of wire covering	0.7 to 2.6 mm	
Sheath material	PVC, PE, PUR	
Material of wire covering	PVC, PE	

Dimensions



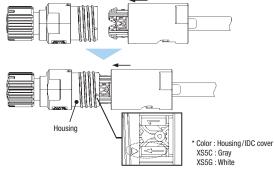
Assembling procedure





7) Assembling the Contact block

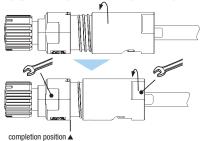
 Insert the cap unit core wire end processing has completed in a contact block. • Use a riangle mark of a housing and an arrow of a IDC cover, as a guideline of alignment. The location of the arrow is the side of the terminal No.1.



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

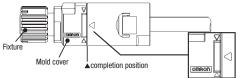
8) Tightening up the cap

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

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



* When the operation has completed, riangle 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. * 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

- \bullet When releasing wire connection, remove the cap unit in the opposite procedure of assembly work. [8) \rightarrow 7)]
- * 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. * 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 1)→8). * 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.
- 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.



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 mating 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 mate the Connectors, Always use your hands. Pliers or other tools may damage the Connectors.
- When mating to an M12 Threaded Connector, such as on the XS2, tighten the lock with your hands. (The suitable tightening torque is 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.

General Precautions

- Do not pull excessively on the Connectors or cables. 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.
- Install the Connectors and cables where they will not be stepped on to prevent the wires inside the cables from being broken and to prevent the Connectors from being damaged. If the Connectors or cables must be installed where they might be stepped on, protect them with covers.
- · Refer to the specifications for your cables before bending the cables and do not bend them past their minimum bending radius.
- If sensors or switches are not attached during installation, protect the mating surface of the Connector with a XS2Z-22 Waterproof Cover of XS2Z-14/15 Dust Cover.

Omron Electronic Components LLC 55 Commerce Drive Schaumburg, IL 60173 USA

Ph +1 847-882-2288 F +1 847-882-2192 components@omron.com

