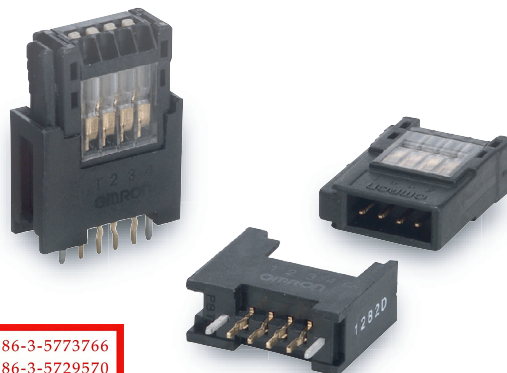


Easy-wire Connectors for Industrial Components

XN2

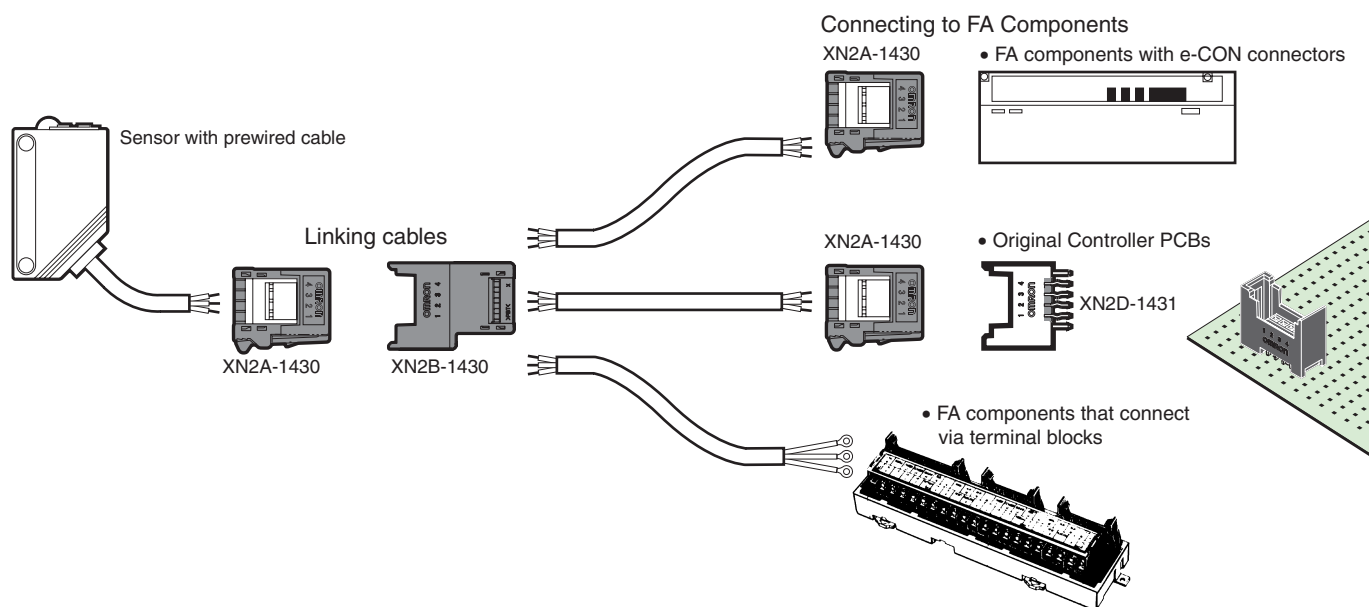
Easy-wire Connectors with *e-CON* Specifications; Ideal for Connecting Sensors.

- Uses industry-proven spring clamps for wiring.
- No special tools required.
- Easy to rewire and repair.
- Each Connector accepts any wire size from AWG28 (0.08 mm²) to AWG20 (0.5 mm²).
(External sheath diameter: 1.5 mm max.)



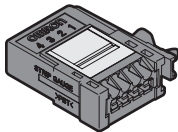
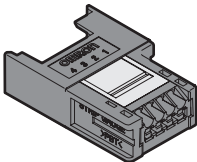
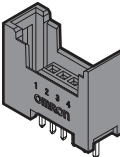
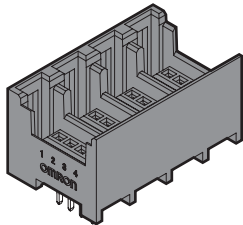
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Wiring Configuration Example



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Ordering Information

Type	Cable Plug Connector	Cable Socket Connector	Single-socket PCB Socket Connector	Four-socket PCB Socket Connector
Appearance				
Model	XN2A-1430	XN2B-1430	XN2D-1431	XN2D-4431

Ratings and Specifications

Rated current	3 A/pole (Using 0.5 mm ² wire) 2 A/pole (Using 0.3 mm ² wire) 1 A/pole (Using 0.2 mm ² wire) 0.5 A/pole (Using 0.1 mm ² wire)
Rated voltage	32 VDC
Contact resistance (See note 1.)	30 mΩ max. (20 mVDC max., 100 mA max.)
Insulation resistance	1000 MΩ min. (at 500 VDC)
Dielectric strength	1,000 VAC for 60 s (leakage current: 1 mA max.)
Insertion tolerance	50 times
Ambient temperature (See note 2.)	Operating: -30°C to 75°C
Applicable wires	0.08 mm ² (AWG28) to 0.5mm ² (AWG20) The external diameter of the cable sheath is 1.5 mm max.

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Note: 1. This value is the contact resistance of the connector.
 2. The temperature is limited, however, to the maximum operating temperature for the cables.

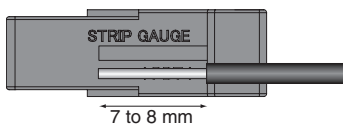
Materials and Finish

Item	Cable type	PCB type
Case	Black PBT resin (UL94V-0)	
Cover	Black PBT resin (UL94V-0)	—
Base	Transparent PC resin (UL94V-0)	—
Lever	Modified PPO resin (UL94V-0)/natural (white)	—
Contact	Copper alloy Contact: Nickel base with 0.2-μm gold plating Wiring: Nickel base with gold flush plating	
Spring	Stainless steel	—
Pin clamp	—	Copper alloy/nickel base with tin-alloy plating

Assembly Instructions

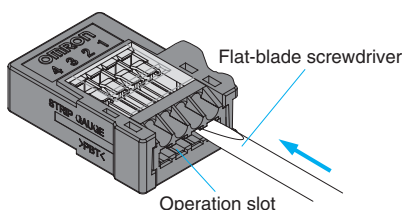
Preparing the Cable

Align the cable with the guide marked STRIP GAUGE on the side of the Connector, strip 7 to 8 mm of the cable sheath, and then twist the wires several times.

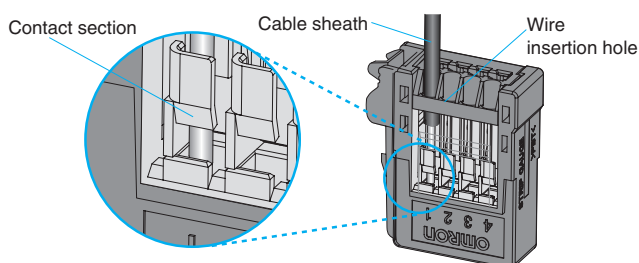


Connecting the Cable to the Connector

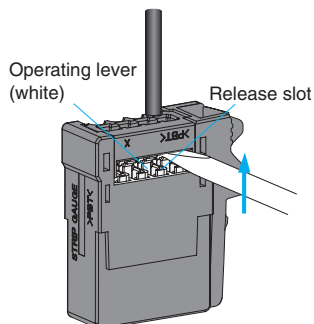
1. Use a flat-blade screw-driver to push down the operating lever inside the operation slot until it locks.



2. Insert the wire fully to the back of the wire insertion hole. Make sure that the cable sheath is inserted into the hole, and that the end of the wire has passed through the contact section.

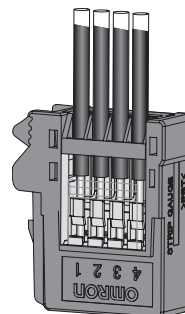


3. Insert the screwdriver into the release slot, and gently pull back the lever until a click is heard by resetting the lever.



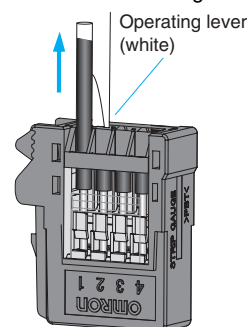
4. Make sure that the following operations have been performed.

- Check that the operating lever is reset.
- Check that the procedure in step 2 has been followed. (Pull gently on the cable to make sure that there is resistance, indicating that the Connectors are wired correctly.)



Removing Cables from the Connector

1. Press down on the operating lever to lock the lever before removing the cable.
2. After removing the cable from the Connector, always reset the operating lever, except when rewiring the Connector. The Connector can be rewired without resetting the operating lever.



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Safety Precautions

Refer to *Warranty and Limitations of Liability*.

■ Precautions for Safe Use

- Do not pull on the Connectors or cables. Doing so may cause damage to the Connectors or cause the cables to disconnect.
- Install the Connectors in a location where they will not be stepped on, to prevent disconnection of the cables or damage the Connectors. If the Connectors have to be installed in such a location, use a protective cover.
- Make sure that the Connectors are mated in the correct direction. Mating the Connectors incorrectly will damage to the Connectors.
- Do not use the Connectors if the lock lever is bent or broken. Doing so may cause the Connector to become loose or the device to malfunction.
- Before mounting Connectors to a PCB, make sure that the Connectors are positioned in the correct direction.
- Before bending a cable to connect it to a Connector, check the bending specifications of the cable to be used.
- Do not exceed the rated current of the cable. Always check the rated current of each cable to be used.
- Do not use pliers or other tools to remove the Connectors.
- Hold the Connectors firmly by hand when handling them. Do not use excessive force to push the Connectors. Forcing the Connectors may result in injury.
- These Connectors do not resist water. Do not use Connectors in places where water or oil may be sprayed onto the Connectors.

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■ Precautions for Safe Use

Do not use the product in atmospheres or environments that exceed product ratings.

Wiring

- Insert one wire into each insertion hole. Inserting two or more wires into a single hole may cause unexpected problems.
- Make sure that no power is being supplied to a Connector before wiring, inserting, or removing the Connector. Doing so may result in electric shock.
- Follow the wiring diagrams for the device being used when wiring the cables.
- Strip the cables according to the instructions in the applicable operation manual, making sure not to damage the wires.
- Do not use a screwdriver with a tip larger than the specified width when wiring the Connectors.
- Make sure short-circuits are not created, e.g., by protruding wires.

Inserting and Removing Connectors

- When connecting or disconnecting Connectors, always hold the case of the Connector.
- When mating Connectors, insert the Connector fully into the back of the socket, and then make sure that the Connector will not become loose by lightly pulling it in the opposite direction.

Recommended Screwdriver

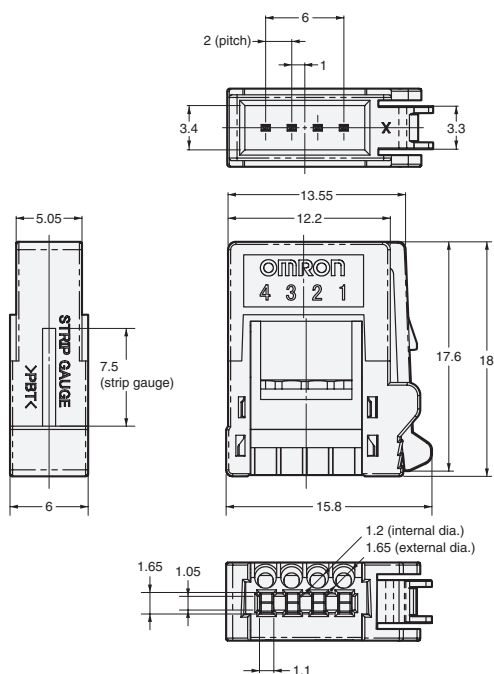
- Use a flat-blade screwdriver with a tip of 2 mm max. Do not use screwdrivers that gradually widen towards the base of the screwdriver.
- Using other screwdrivers may cause damage to the adjacent poles.

Dimensions

(Unit: mm)

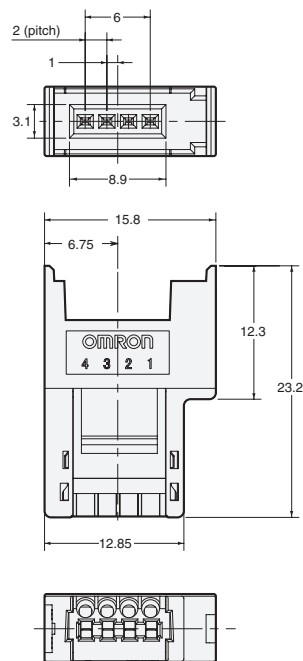
Cable Plug Connector

XN2A-1430



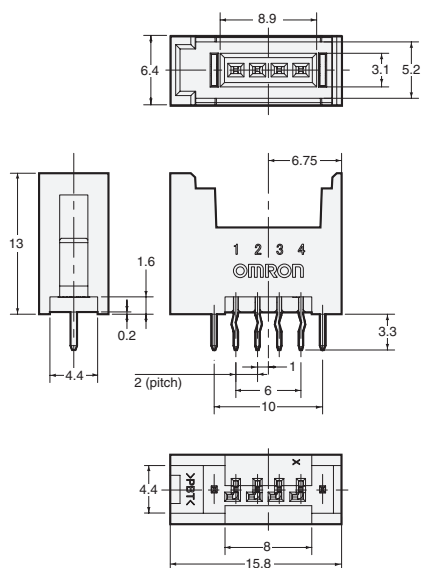
Cable Socket Connector

XN2B-1430

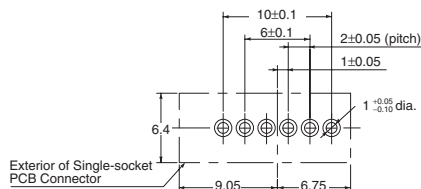


Single-socket PCB Socket Connector

XN2D-1431

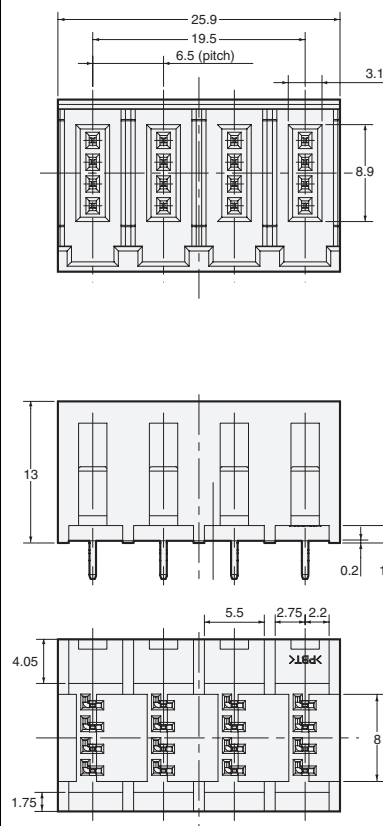


Applicable PCB Dimensions (Top View) $t=1.6\pm0.2$

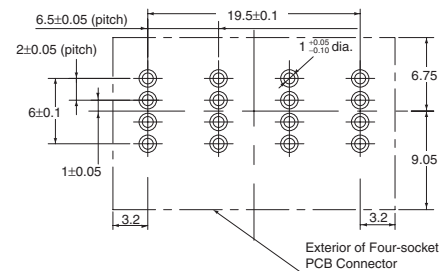
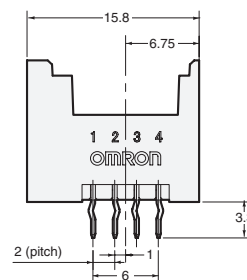


Four-socket PCB Socket Connector

XN2D-4431



Applicable PCB Dimensions (Top View) $t=1.6\pm0.2$



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- Errors And Omissions:** The information on Seller's website or in other documentation has been carefully checked and is believed to be accurate; however, no responsibility is assumed for clerical, typographical or proofreading errors or omissions.
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6. **RoHS Compliance.** Where indicated, our products currently comply, to the best of our knowledge as of the date of this publication, with the requirements of the European Union's Directive on the Restriction of certain Hazardous Substances ("RoHS"), although the requirements of RoHS do not take effect until July 2006. These requirements may be subject to change. Please consult our website for current information.

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ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.

To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

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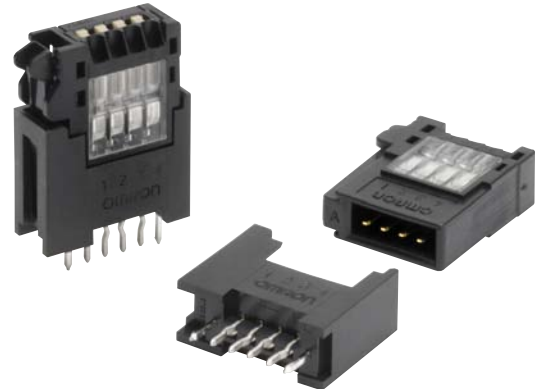
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Easy-wire Connectors with *e-CON** Specifications; Ideal for Connecting Sensors.

- Use industry-proven spring clamps for wiring.
- No special tools required for easy wiring.
- Rewiring (repairing) is possible.
- Each Connector accepts any wire size from AWG28 (0.08 mm²) to AWG20 (0.5 mm²).
(External sheath diameter: 1.5 mm max.)
- See the "Standards certification / conformity list" for information on conformity to certification standards.

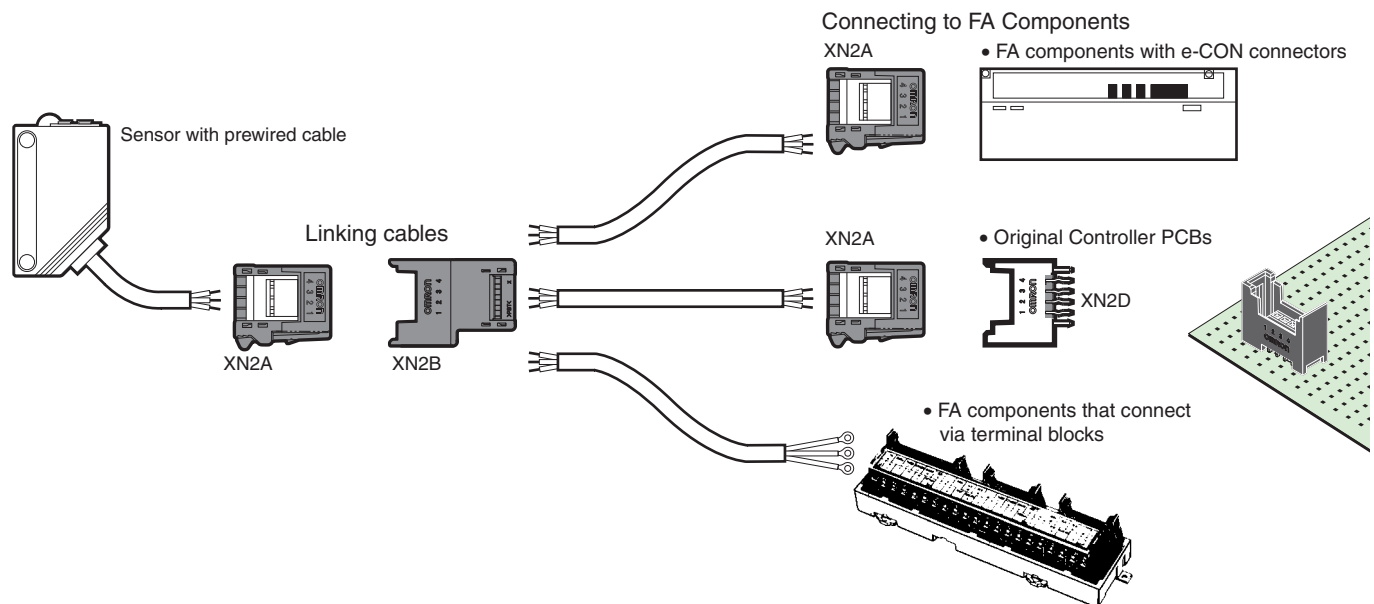
Note: *E-con specifications are currently being promoted for standardization by manufacturers of FA components and connectors. Connector specifications are disclosed only for the mating portions.

RoHS Compliant

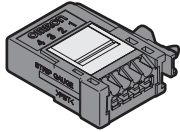
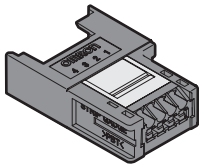
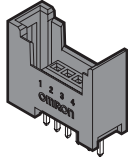
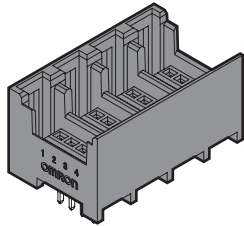


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Wiring Configuration Example



Ordering Information

Type	Cable Plug Connector	Cable Socket Connector	Single-socket PCB Socket Connector	Four-socket PCB Socket Connector
Appearance				
No. of contacts	Model			
3	XN2A-1370	—	XN2D-1371	—
4	XN2A-1470	XN2B-1470	XN2D-1471	XN2D-4471
5	XN2A-1570	—	XN2D-1571	—
6	XN2A-1670	—	XN2D-1671	—
8	XN2A-1870	—	XN2D-1871	—

Ratings and Specifications

Rated current	3 A/pole (Using AWG20 wire) 2 A/pole (Using AWG22 wire) 1 A/pole (Using AWG24 wire) 0.5 A/pole (Using AWG26 or 28 wire)
Rated voltage	32 VDC
Contact resistance *1	30 mΩ max. (20 mVDC max., 100 mA max.)
Insulation resistance	1000 MΩ min. (at 500 VDC)
Dielectric strength	1,000 VAC for 60 s (leakage current: 1 mA max.)
Insertion tolerance	50 times
Ambient temperature *2	Operating: -30°C to 75°C
Applicable wires *3	0.08 mm ² (AWG28) to 0.5mm ² (AWG20) The external diameter of the cable sheath is 1.5 mm max.

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*1. This value is the contact resistance of the connector.

*2. The temperature is limited, however, to the maximum operating temperature for the cables.

*3. When using cables with a wire diameter of 0.16 mm or smaller, contact your OMRON sales representative.

Materials and Finish

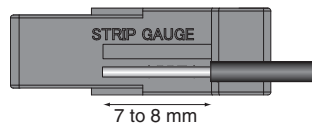
Item	Cable type	PCB type
Case	Black PBT resin (UL94V-0)	
Cover	Black PBT resin (UL94V-0)	—
Base	Transparent PC resin (UL94V-0)	—
Lever	PA resin (UL94V-0)/natural (white)	—
Contact	Phosphor bronze/Underplating: Nickel (1.5 to 3.0 μm) Contacts: Gold (0.2 μm min.) Terminals: Tin plating (1.0 μm min.)	
Spring	Stainless steel	—
Pin clamp	—	Copper alloy/nickel base with tin-alloy plating

XN2

Assembly Instructions

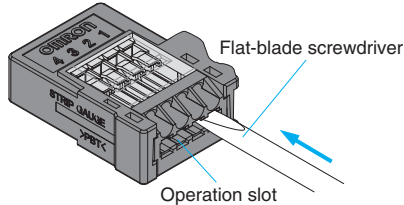
Preparing the Cable

Align the cable with the guide marked STRIP GAUGE on the side of the Connector, strip 7 to 8 mm of the cable sheath, and then twist the wires several times.

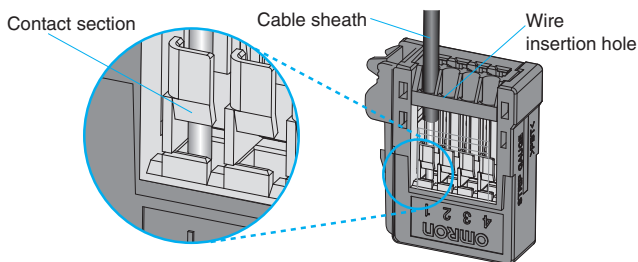


Connecting the Cable to the Connector

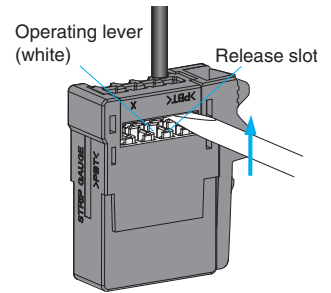
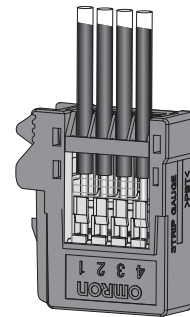
(1) Use a flat-blade screwdriver to push down the white, square operating lever inside the operation slot until it locks.



(2) Insert the wire fully to the back of the wire insertion hole. Make sure that the cable sheath is inserted into the hole, and that the end of the wire has passed through the contact section.



(3) Insert the screwdriver into the release slot, and gently pull back the lever until a click is heard by resetting the lever.



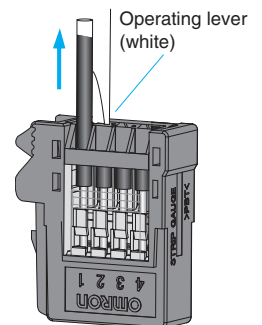
(4) Make sure that the following operations have been performed.

- Check that the operating lever is reset.
- Check that the procedure in step 2 has been followed. (Pull gently on the cable to make sure that there is resistance, indicating that the Connectors are wired correctly.)

Removing Cables from the Connector

(1) Press down on the operating lever to lock the lever before removing the cable.

(2) After removing the cable from the Connector, always reset the operating lever, except when rewiring the Connector. The Connector can be rewired without resetting the operating lever.



Safety Precautions

Precautions for Safe Use

- Do not pull on the Connectors or cables. Doing so may cause damage to the Connectors or cause the cables to disconnect.
- 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 have to be installed in such a location, use a protective cover.
- Make sure that the Connectors are mated in the correct direction. Mating the Connectors incorrectly will damage to the Connectors.
- Do not use the Connectors if the lock lever is bent or broken. Doing so may cause the Connector to become loose or the device to malfunction.
- Before mounting Connectors to a PCB, make sure that the Connectors are positioned in the correct direction.
- Before bending a cable to connect it to a Connector, check the bending specifications of the cable to be used.
- Do not exceed the rated current of the cable. Always check the rated current of each cable to be used.
- Do not use pliers or other tools to remove the Connectors.
- Hold the Connectors firmly by hand when handling them. Do not use excessive force to push the Connectors. Forcing the Connectors may result in injury.
- These Connectors do not resist water. Do not use Connectors in places where water or oil may be sprayed onto the Connectors.

Precautions for Correct Use

Do not use the product in atmospheres or environments that exceed product ratings.

Wiring

- Insert one wire into each insertion hole. Inserting two or more wires into a single hole may cause unexpected problems.
- Make sure that no power is being supplied to a Connector before wiring, inserting, or removing the Connector. Doing so may result in electric shock.
- Follow the wiring diagrams for the device being used when wiring the cables.
- Strip the cables according to the instructions in the applicable operation manual, making sure not to damage the wires.
- Do not use a screwdriver with a tip larger than the specified width when wiring the Connectors.
- Make sure short-circuits are not created, e.g., by protruding wires.

Inserting and Removing Connectors

- When connecting or disconnecting Connectors, always hold the case of the Connector.
- When mating Connectors, insert the Connector fully into the back of the socket, and then make sure that the Connector will not become loose by lightly pulling it in the opposite direction.

Recommended Screwdriver

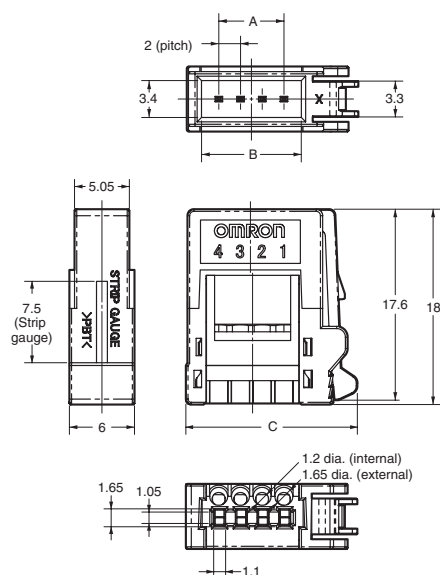
- Use a flat-blade screwdriver with a tip of 2 mm max. Do not use screwdrivers that gradually widen towards the base of the screwdriver.
- Using other screwdrivers may cause damage to the adjacent poles.

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Dimensions

Cable Plug Connector

XN2A-1□70

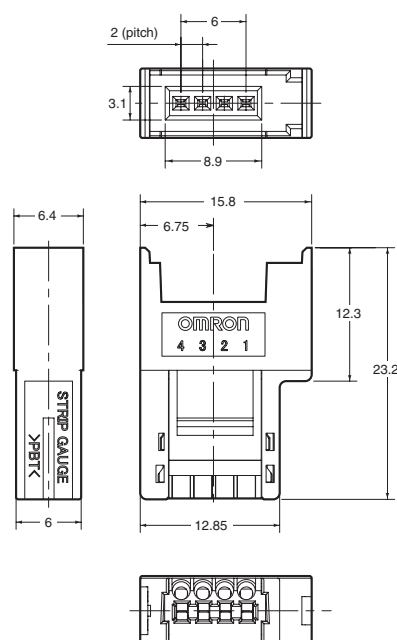


Dimensions

Dimension (mm) No. of contacts	A	B	C
3	4.0	7.2	13.8
4	6.0	9.2	15.8
5	8.0	11.2	17.8
6	10.0	13.2	19.8
8	14.0	17.2	23.8

Cable Socket Connector

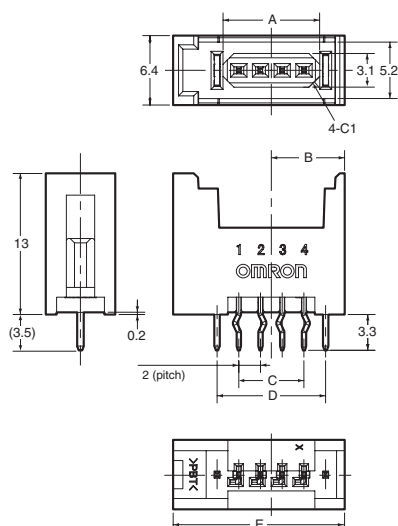
XN2B-1470



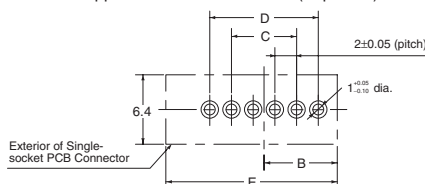
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Single-socket PCB Socket Connector

XN2D-1□71



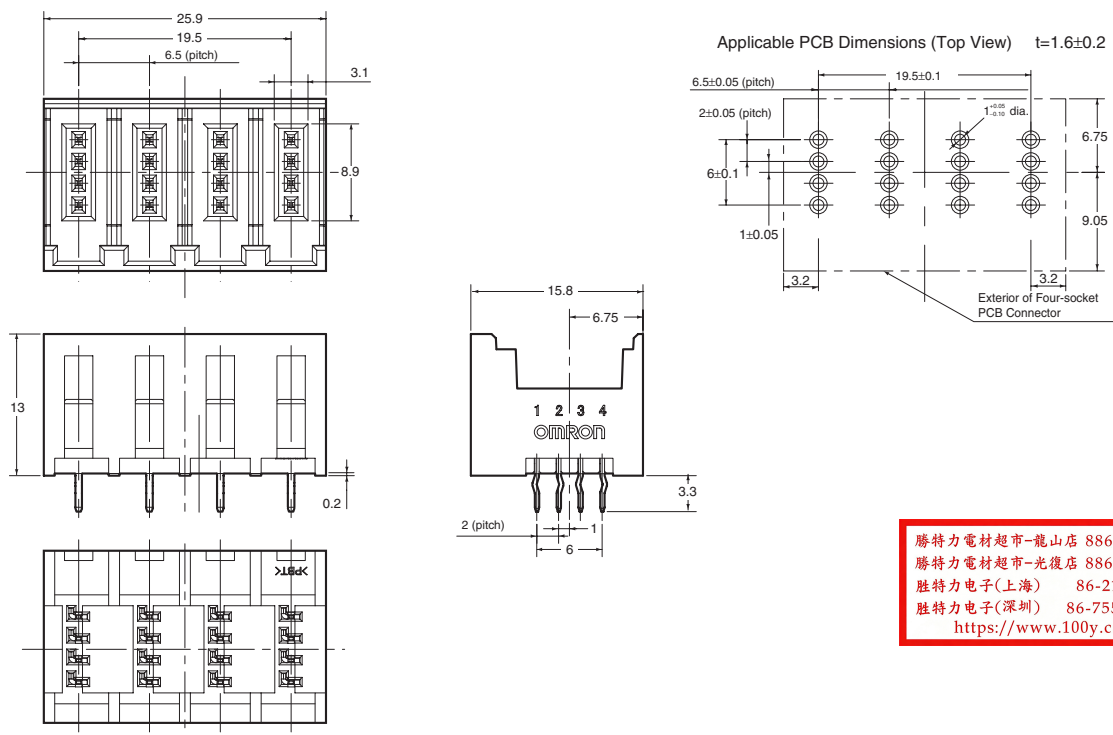
Applicable PCB Dimensions (Top View) $t=1.6\pm0.2$



Dimensions

Dimension (mm) No. of contacts	A	B	C	D	E
3	6.9	5.8	4.0	8.0	13.8
4	8.9	6.8	6.0	10.0	15.8
5	10.9	7.8	8.0	12.0	17.8
6	12.9	8.8	10.0	14.0	19.8
8	16.9	10.8	14.0	18.0	23.8

Four-socket PCB Socket Connector XN2D-4471



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