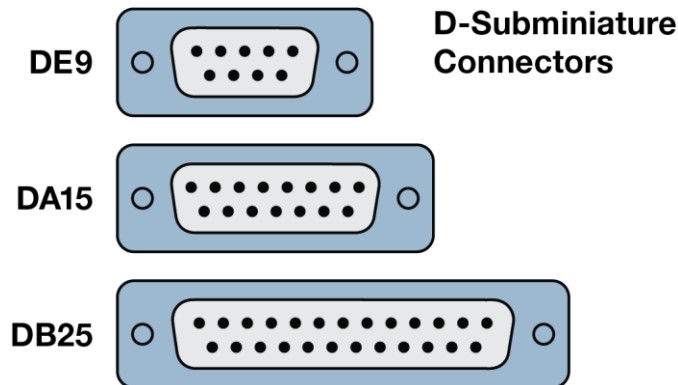


D-Sub Connector Guide

Lake Shore provides D-sub connectors with your instrument. The number and type of connectors depends on the product and options ordered.

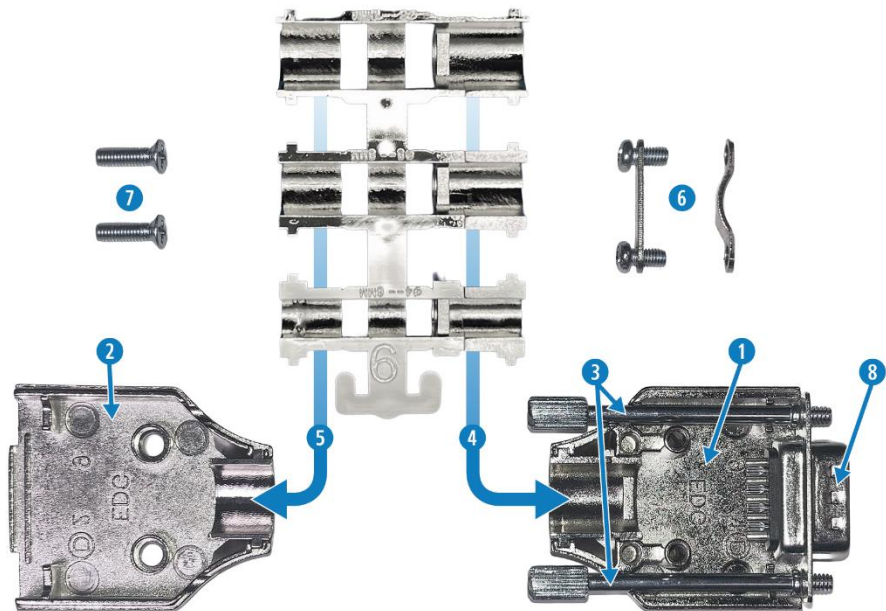


Type of connector	Description
DE9	Dual sensor
DA15	Quad heaters
DB25	Model 211/218 sensors

Parts of the D-sub connector

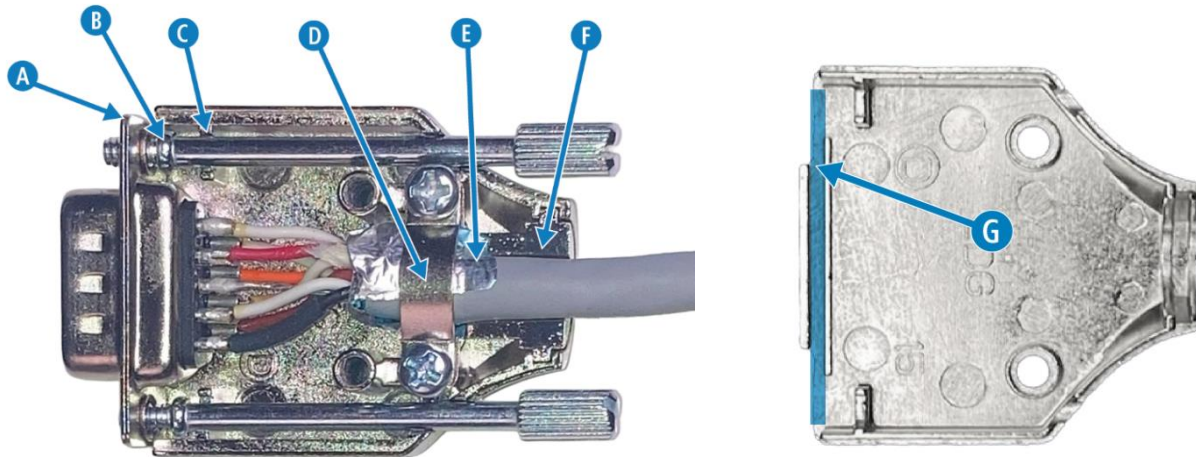
1. Hood bottom
2. Hood top
3. Thumb screws
4. Strain relief inserts, bottom*
5. Strain relief inserts, top*
6. Cable shorting bars
7. Hood screws
8. D-subminiature connector

*Three different sizes of strain reliefs are provided to suit the cable being used.
NOTE: The fit should be tight without pinching the cable when the hood top is installed.



D-sub wiring and assembly

NOTE: The cable should include a shield. The typical and recommended configuration is to connect the cable shield to the connector (instrument chassis) by securing the foil shield to the hood using cable shorting bar. See the instrument user's manual for additional details.



- A. Connector
- B. Retention lobe
- C. Retention lobe stop
- D. Cable shorting bar
- E. Cable shield retained under cable shorting bar
- F. Strain relief insert, bottom
- G. Connector retention slot (indicated in blue)

Assembly steps

1. Strip the cable insulation back to expose the foil shield and wires.
2. If required, split the foil shield and fold it back over the insulation, as shown in the illustration above (E).
3. Solder the wires to the connector. The pinout for each connector is included in the user's manual.
4. Install the bottom strain relief insert into the hood bottom.
5. Place the connector in the connector retention slot (G) in the hood.
6. Secure the cable using a cable shorting bar (D) and the round pan head screws.



Left: Pan head screw used for cable clamp; **Right:** Select the appropriate shorting bar for your cable

NOTE: Two different sizes of cable shorting bars are provided. Select the one that holds the cable tightly without crushing the wires.

7. Place the matching top strain relief insert into the hood top.
8. Install the thumb screws into the connector with the lobe (B) captured between the hood and connector face.
9. Place the hood top onto the connector, ensuring the connector is positioned between the connector retention slots (G) of both the top and bottom hood pieces.
10. Secure with the remaining flat head screws.



Assembled connector

Lake Shore Technical Support

The Lake Shore Technical Support Department is staffed Monday through Friday between the hours of 8:00 a.m. and 5:00 p.m. EST, excluding holidays and company shut down days: <https://www.lakeshore.com/support/>.

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