COMMSCOPE®

TIA568B – B Wired
Ceiling Connector Assembly Installation

General

These instructions provide the installation procedure for the Ceiling Connector (760234921) and cord assemblies incorporating the ceiling connector assembly. See the **CommScope** Product Catalog for available cord configurations.

How to Contact Us

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Ceiling Connector

Tools Required

- Cable jacket scoring tool (such as Xcelite® 2CSKY or JOKARI® No.1-Cat)
- Flush-cutting wire cutters (such as Xcelite MS545JV)
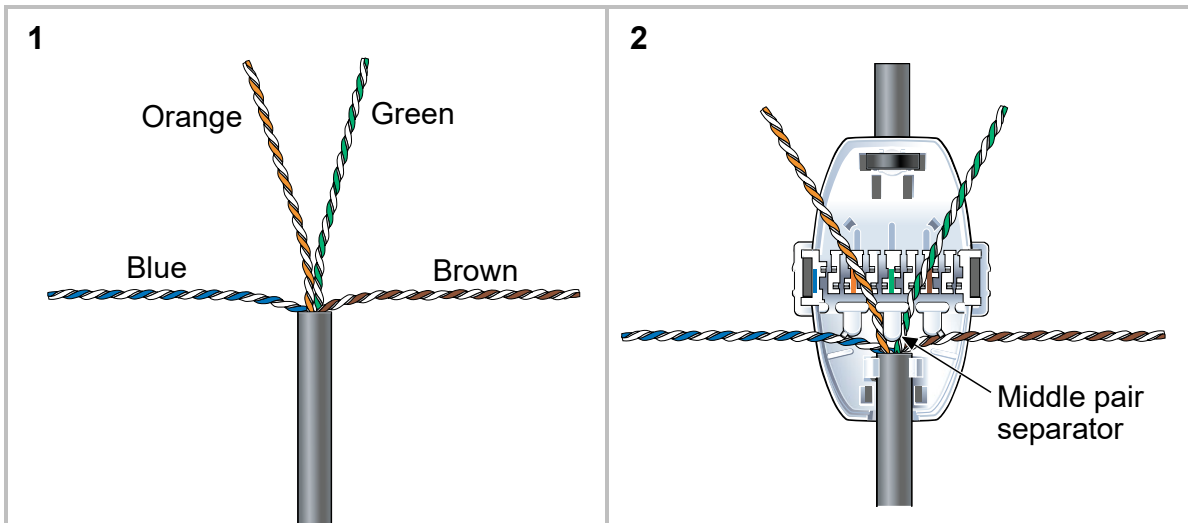- Tongue-and-groove pliers (optional)
- Flat-blade screwdriver

Parts List

Verify parts against the parts list below:

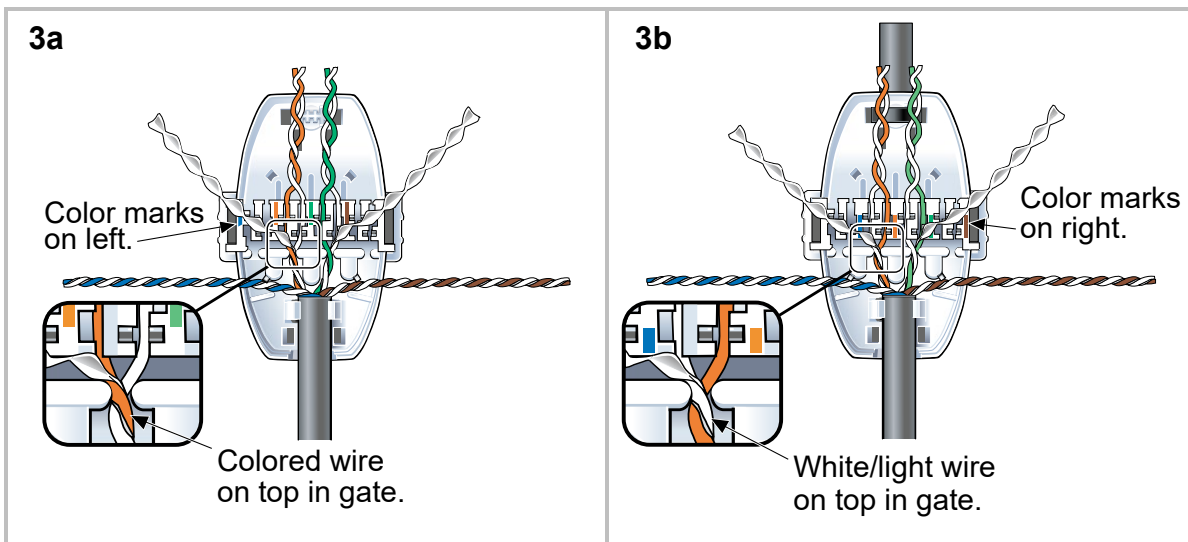| Quantity	Description
1	Ceiling connector assembly
2	Ceiling connector cap (one pre-installed in cord assemblies)
2	Small cable tie (one pre-installed in cord assemblies)

Cable Termination

1. Remove approximately two inches (50mm) of cable jacket. Bend the pairs out of the way and cut away any separator device. Arrange the wires in order – BLUE, ORANGE, GREEN, BROWN – with the blue and brown pairs bent 90° in opposite directions, as shown in image **1**, below.

2. Insert the cable into the connector and push it tight against the middle pair separator, shown in image **2.**
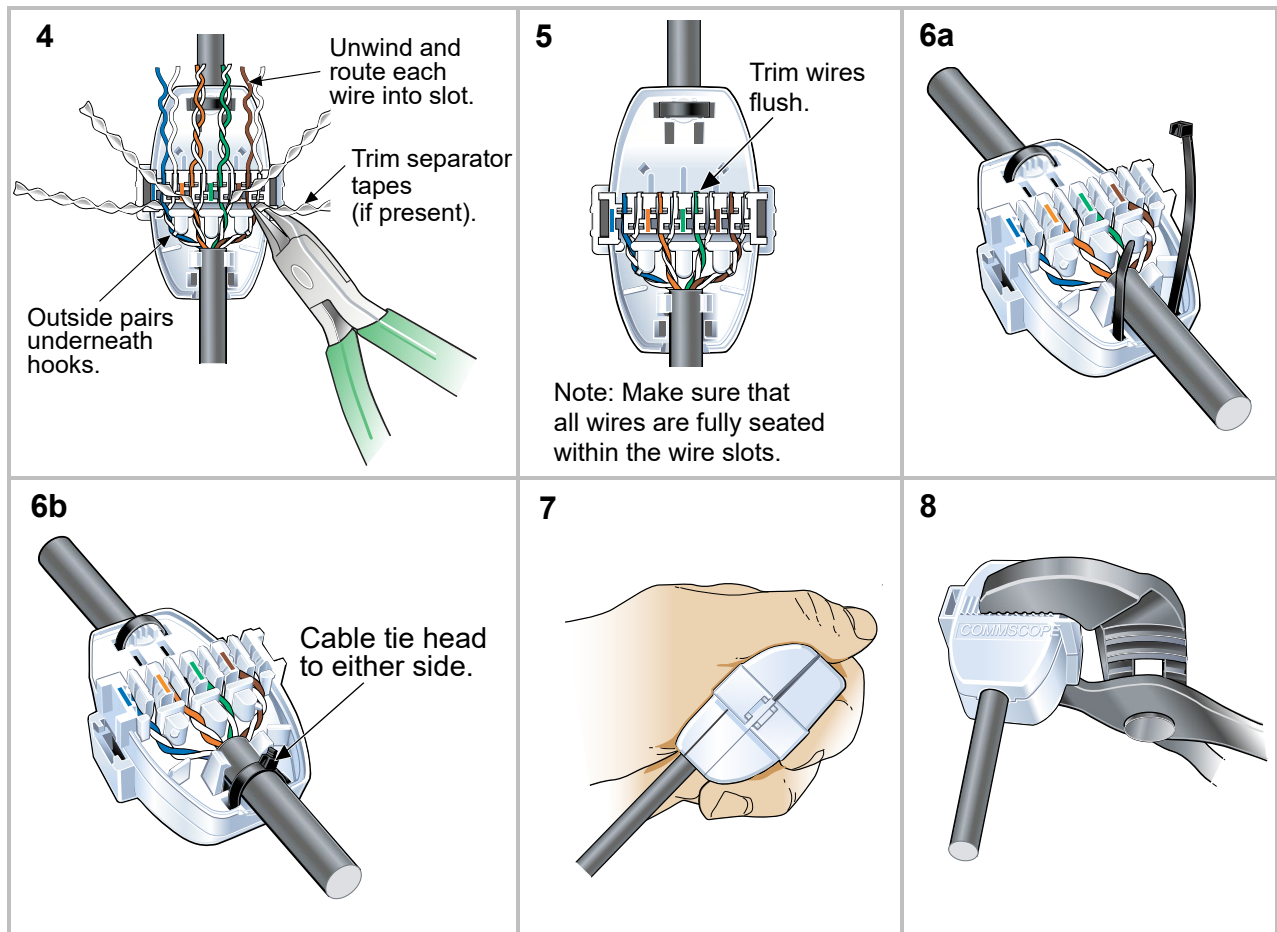

3. Add twist to each pair so that the proper wire is on top over the pair gate, and place it into the gate.

    IMPORTANT: The two sides of the connector are color marked differently. The colored wire must be on top in the gate with the color markings positioned to the left as shown in **3a**. On the side with the color markings positioned to the right (**3b**), the white/light wire must be on top in the gate.
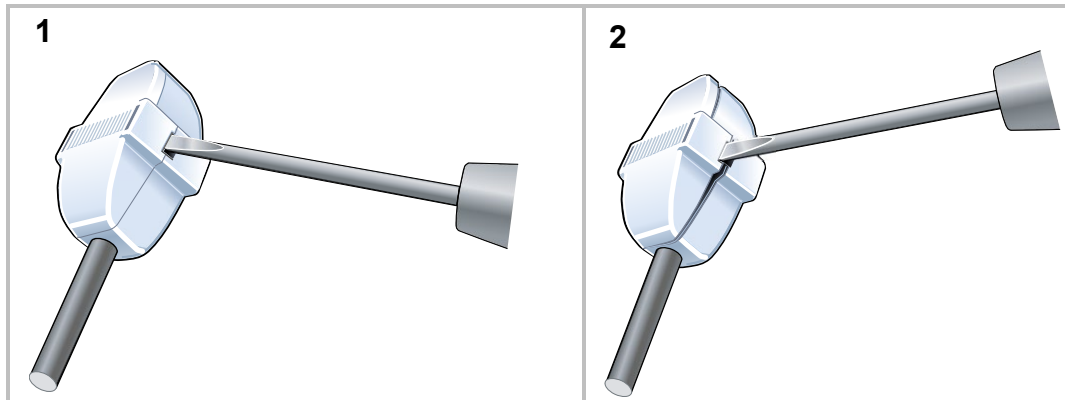
4. Unwind and route each wire into its respective slot (colored wire by color marking), pulling the wire underneath the retention barbs at the end of each slot. Start with the center pairs and keep the cable tight against the middle pair separator. Route the outside pairs underneath the hooks as shown in image **4**.

5. Trim pair separator tapes (if present) directly after the pair gates as shown in image **4** and trim the wires flush with the end of the wire slots, image **5**.

6. Optionally, install a small cable tie for strain relief (**6a**). Cut the excess cable tie length flush and position the cable tie head to either side to avoid interference with the cap (**6b**).

4 Unwind and route each wire into slot. Trim separator tapes (if present). Outside pairs underneath hooks.	**5** Trim wires flush. Note: Make sure that all wires are fully seated within the wire slots.	**6a**
6b Cable tie head to either side.	**7**	**8**

7. Install a cap over the wires and squeeze it lightly to partially seat the wires.

    Note: Repeat steps 1-7 to terminate the other side of the connector, if necessary.

8. Squeeze the caps to engage retention snaps on both sides of each cap as shown in image **8**. This may be done by hand or with tongue-and-groove pliers. If using pliers, squeeze along the ribbed surface.
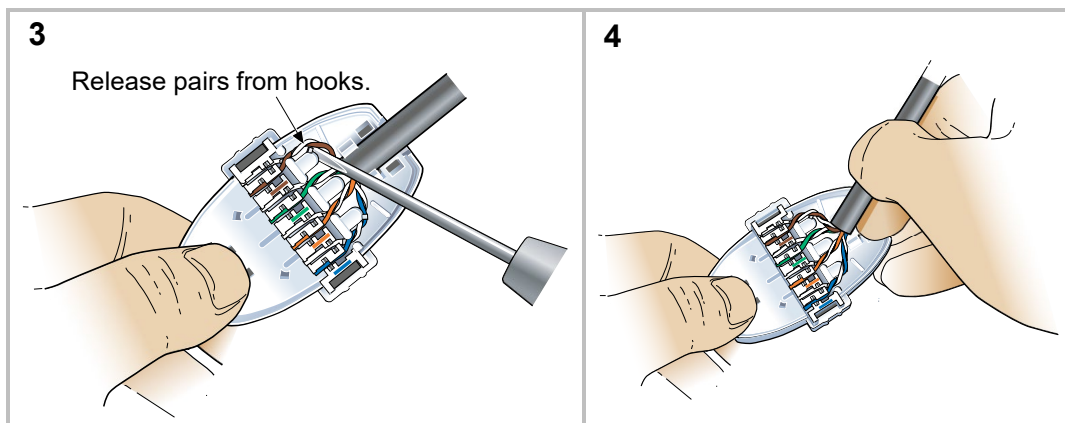
Cap Removal

1. To remove a cap, insert screwdriver at a 45° angle, as shown in image **1**, and rotate the handle upwards. Repeat to unlatch the opposite side and remove the cap as shown in image **2**.

Remove a Terminated Cable

2. Remove the cap as in Step 1 above.

3. Use a small screwdriver or other suitable tool to pull the outside pairs out from underneath the small hooks on the pair separators, as shown in image **3**.

4. Rock the cable up and down to pull the wires out of the IDC terminals, image **4**.

Release pairs from hooks.

Mount the Connector (Optional)

The ceiling connector can be mounted to nearby objects with a cable tie (not included) inserted through the tunnels on either side of the connector. Multiple connectors can also be tied together side-by-side.

Note: Avoid mounting the connector with constant or steady tension on the attached cables.