

SF 28PT • Setup Guide

This setup guide contains installation information for the Extron SF 28PT Pendant Speaker.

NOTES:

- Observe all applicable building codes and local ordinances when installing the SF 28PT speaker.
- The two speaker wires of the PendantConnect-2 cable are a red wire with a black stripe (black) and a solid red wire (red). Throughout the rest of this guide the speaker wires are referred to as either being black or red.
- This speaker is intended for indoor dry environment only.



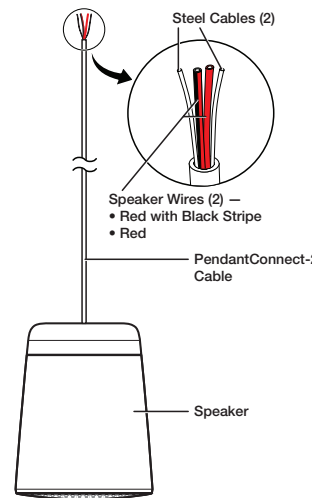
WARNING: Risk of personal injury or property damage.

AVERTISSEMENT : Risque de dommages corporels ou matériels.

- The final installation should be able to continuously support the speaker weight. The final installation should also be able to support any short term overloading. Since applications can vary considerably, it is assumed that the installer will exercise good judgment when selecting the mounting location, method, and hardware. Installation and service must be performed by authorized personnel only.
- L'installation finale doit pouvoir supporter en permanence le poids de l'enceinte. L'installation finale doit également supporter toute surcharge temporaire. Étant donné la possibilité d'évolution considérable des applications, il est supposé que l'installateur fera preuve de discernement lors de la sélection de l'emplacement, du mode, et du matériel de montage. L'installation et la maintenance du système doivent être exclusivement effectuées par le personnel autorisé.
- In order to ensure that the cable lock is not unintentionally unlocked, keep the area within 2 inches (51 mm) of the cable lock in all directions free of any other objects.
- Afin d'assurer que le verrou du câble ne soit involontairement enclenché, libérez l'espace situé dans un intervalle de cinq centimètres autour du verrou de tout autre objet.

IMPORTANT:
Refer to www.extron.com for the complete user guide and installation instructions before connecting the product to the power source.

Installing the SF 28PT Speaker with the Default Hardware



The SF 28PT speaker assembly includes the SF 28PT speakers with removable top caps, removable grilles, and a 30-foot (9.1 m) length of PendantConnect-2 (PCC-2) suspension cable that incorporates both the speaker wires and two steel support cables.

Installation requires attaching two steel cables to a suitable mounting point, such as a pipe or eye bolt, attaching the swaged ends of the cables to a hook for the speaker, and routing the two speaker wires

to the 2-pole splicing connectors on the speaker. Follow the steps below to properly install the speaker. Locate a suitable permanent mounting location for the SF 28PT where the two support cables can be securely attached.

NOTES:

- The structural member of the building must be able to support the complete speaker assembly including the speaker and cap, support cables, the speaker grille, and any optional accessories. See the **Warning** at the beginning of this guide.
- To help determine the necessary length of PCC-2 cable needed, if pre-cutting, see the **“Reference Information”** section of the user guide, otherwise follow the numbered steps below.
- The speaker comes in a bag that helps to keep the speaker clean during installation.

Installing the Mounting Hardware

1. Locate a suitable mounting point for the SF 28PT, such as a pipe or an eye bolt.
2. After determining the longest length of the two support cables that is needed to attach the speaker to the structure attachment points, cut the 30-foot (9.1 m) PCC-2 cable so that the two steel cables and two speaker wires are all of the same length.

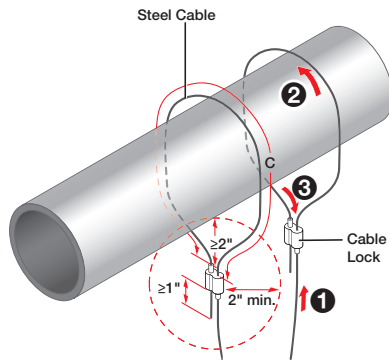
ATTENTION:

- Do not use regular wire cutters to cut through the steel cable. Ordinary wire cutters may be damaged when attempting to cut through the steel cable. You must use a suitable cable cutter to cut the steel cable.
- N'utilisez pas de cisaille standard pour couper le câble en acier. Ce type de cisaille peut être endommagé lors de la coupe du câble en acier. Vous devez utiliser une pince coupe-câble adaptée à ce type de câble.

NOTES:

- Be sure to allow extra cable length for the structure attachment points.
- For optional speaker hanging methods, see [Optional Ceiling Bracket Kit](#), [Optional 2-Cable Installation Kit](#), and [Optional 4-Cable Installation Kit](#).

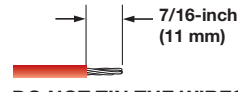
- Strip back as much of the PCC-2 outer jacket as needed.
- If the optional ceiling bracket is being installed, see [Optional Ceiling Bracket Kit](#) on page 4, otherwise continue with the next step.
- At the structure attachment point end of the support cables, route the cut end of one cable through one end of the cable lock (1), then route the cable around or through the attachment structure (2) using as much cable as needed to allow the speaker to be positioned at the correct height. An attachment example is shown below. Do this step for both cables.



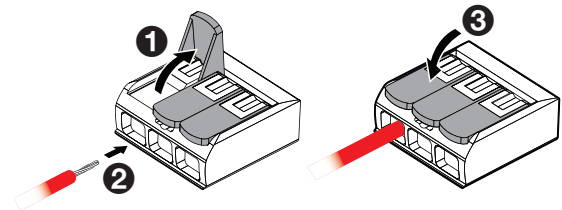
After ensuring that the cable is of sufficient length to position the speaker at the proper installation height, run the free end of the cable through the open end of the cable lock (3) and secure it in place, as shown above. Do this step for both cables.

NOTE: In order to ensure that the cable lock is not unintentionally unlocked, keep the area within 2 inches (51 mm) of the cable lock in all directions free of any other objects. See the [WARNING](#) on page 1.

- To connect the speaker wires to the amplifier:** On the cut end of the PCC-2 cable, strip 7/16-inch (11 mm) from the ends of the protruding black and red wires. These wires will be inserted into the two 3-pole splicing connectors (included).

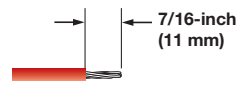


- Lift one lever of one 3-pole splicing connector (1) and insert the stripped end of the red speaker wire into an empty pole of the connector (2). Press the lever down to lock the red wire in place (3).



Do the same with the second 3-pole splicing connector for the black speaker wire.

- Connect the speaker/amplifier wires to the 3-pole splicing connectors in **step 8**.
 - Strip 7/16-inch (11 mm) from the ends of the black and red amplifier wires. These wires will be inserted into the two 3-pole splicing connectors.

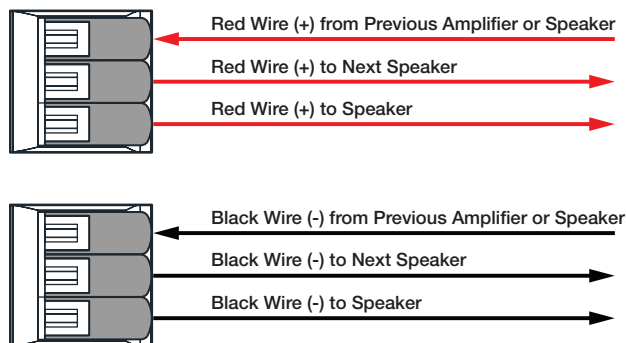


- The red speaker/amplifier wire connects to the splicing connector wired to the red wire, and the black speaker/amplifier wire coming from the junction box connects to the splicing connector wired to the black wire.

NOTE: Each pole of the splicing connector is capable of accepting up to 12 AWG wire.

- When daisy-chaining speakers, wire the 3-pole splicing connectors for a loop-through configuration.

Loop-through:

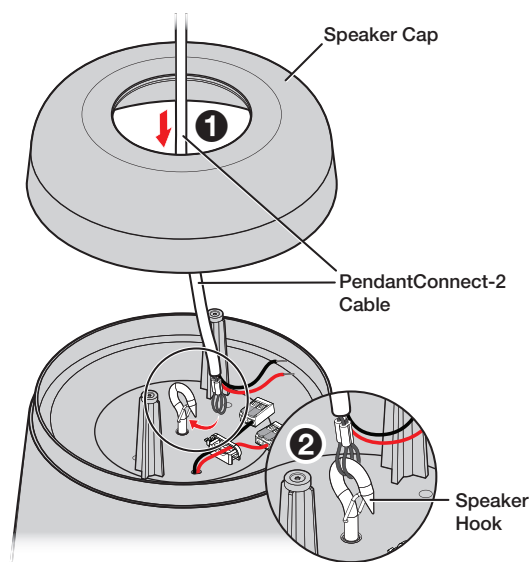


NOTES:

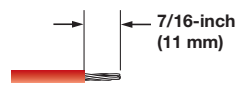
- Wiring is the same for all hanging methods where PCC-2 cable is used. If it is not used, the 2-pole splicing connectors at the speaker should be replaced with the provided 3-pole splicing connectors. Refer to [Speaker Installation and Configuration](#) for details.
- Setting the tap switch is the same for all installation methods

Speaker Installation and Configuration

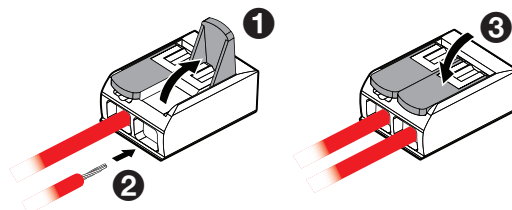
1. Attach the swaged ends of the steel cables through the speaker cover (1) and onto the speaker hook (2) on the top of the speaker, as shown here.



2. The top of the speaker has a red and a black speaker wire with 2-pole splicing connectors attached.
3. Using the guide printed on the side of the splicing connector, strip .43 inch (11 mm) from the ends of the red and black speaker wires coming from the cable. These wires will be inserted into the 2-pole splicing connectors of the speaker.

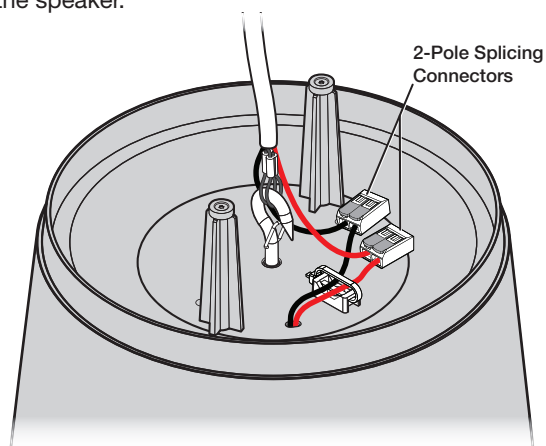


4. Lift the splicing connector lever (1) and insert the stripped end of the red wire into the empty pole of the connector (2) that is attached to the red wire coming from the speaker. Press the lever down to lock the red wire in place (3).



Do the same for the black speaker wire.

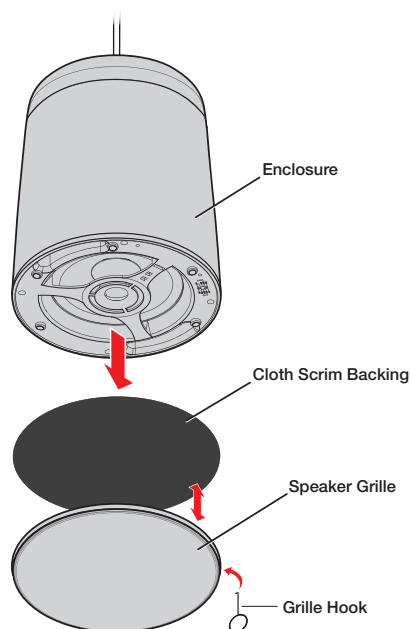
5. The speaker wires are now connected at the back of the speaker.



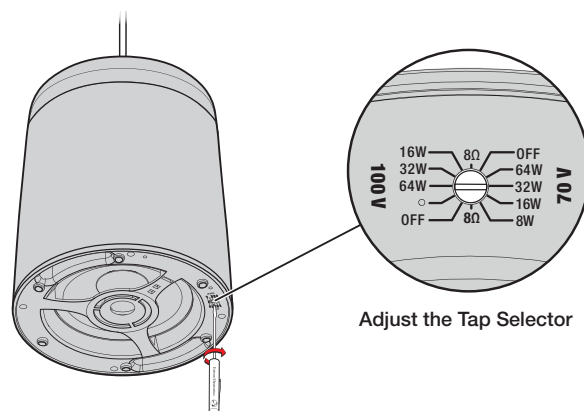
Remove and properly dispose of the bag.

6. To set the tap selector switch, use the provided grille hook to first remove the speaker grille. Insert the small end of the hook through any perforation along the outer edge of the grille and pull the grille off the speaker.

SF 28PT • Setup Guide (Continued)



7. Use an Extron Tweezer or small screwdriver to set the tap selector switch to the desired position.



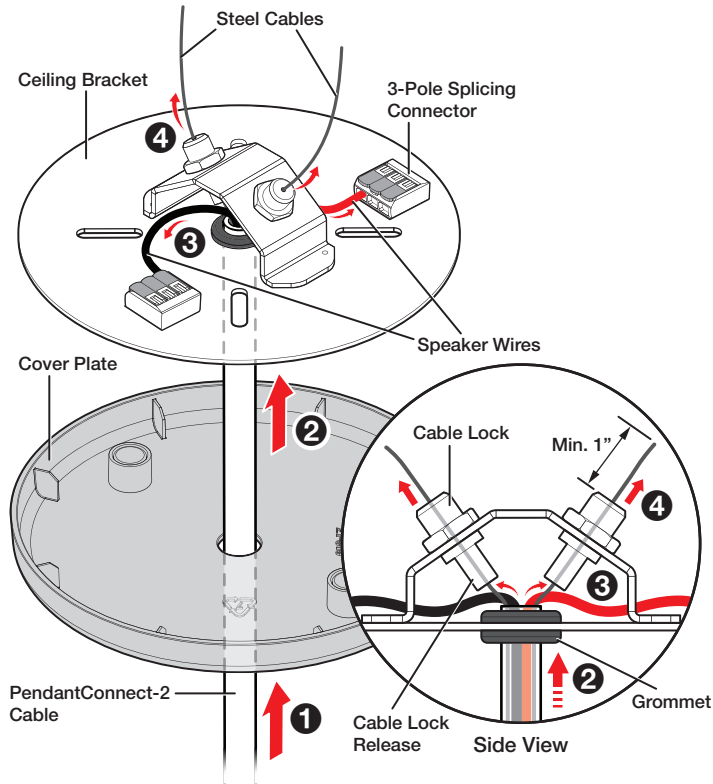
8. Replace the grille.

NOTES:

- Wiring is the same for all hanging methods where PCC-2 cable is used. If it is not used, the 2-pole splicing connectors at the speaker should be replaced with the provided 3-pole splicing connectors. Refer to [Speaker Installation and Configuration](#) for details.
- Setting the tap switch is the same for all installation methods.
- Follow steps 1 through 2 of the [Installing the Mounting Hardware](#) section before continuing with any of the optional mounting methods.
- Be sure to allow extra cable length for the structure attachment points.

Optional Ceiling Bracket Kit

The optional SMK C SF 26PT Extron Ceiling Bracket Kit for 6-inch and larger pendant speakers allows the SF 28PT speaker assembly to be suspended from a octagon junction box. The kit consists of two ceiling brackets and matching magnetic covers.



1. Install and wire an octagonal junction box where the ceiling bracket is to be attached

NOTE: The junction box must be attached to a permanent structural member of the building and be able to support the complete speaker assembly including the speaker and cap, cable, and the ceiling bracket and cover plate. See the **WARNING** on page 1.

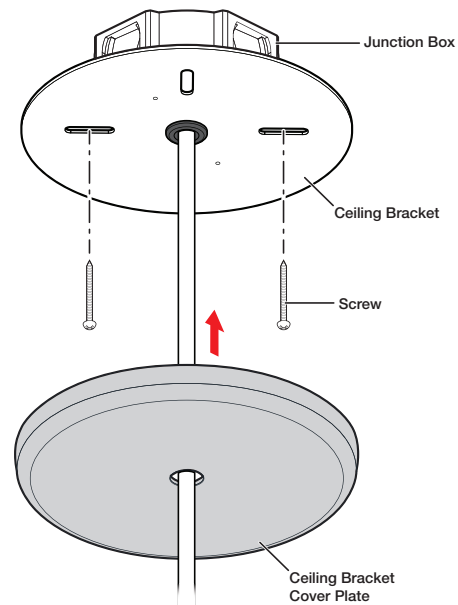
2. Route the free end of the PCC-2 cable through the ceiling bracket cover (1) with the magnetic side of the cover facing the ceiling bracket.
3. Keeping in mind how much speaker wire and steel cable will be required, remove as much of the PCC-2 cable jacket as necessary such that the end of the jacket remains flush with the top of the black center grommet (2) of the ceiling bracket.
4. Route the free ends of the two steel support cables through the two ceiling bracket cable locks (4). Inserting the steel cable through the bottom of the cable lock locks the cable in place. Pressing the cable lock release unlocks the cable.

NOTE: A minimum of 1 inch (25.4 mm) of steel cable must protrude from the top of the cable lock.

ATTENTION: Do not use regular wire cutters to cut through the steel cable. Ordinary wire cutters may be damaged when attempting to cut through the steel cable. You must use a suitable cable cutter to cut the steel cable.

ATTENTION : N'utilisez pas de cisaille standard pour couper le câble en acier. Ce type de cisaille peut être endommagé lors de la coupe du câble en acier. Vous devez utiliser une pince coupe-câble adaptée à ce type de câble.

5. Attach the ceiling bracket to the junction box using two screws with the splicing connectors inserted into the junction box.

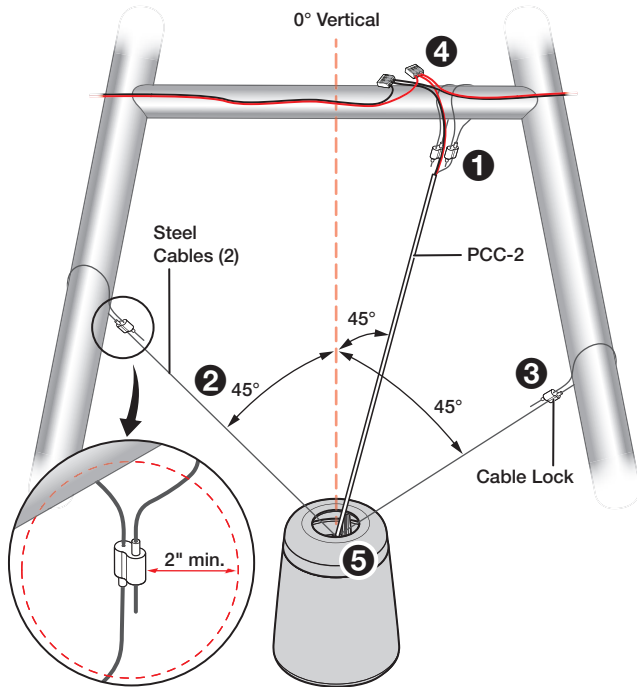


6. Attach the ceiling bracket cover onto the ceiling bracket. Two small magnets secure the cover plate in place.

SF 28PT • Setup Guide (Continued)

Optional Two-Cable Installation Kit

The optional Extron SMK A 2C 2-aircraft cable installation kit allows the SF 28PT speaker to be suspended from three overhead points such as a pipe or eye bolt using the two included PCC-2 steel cables and the two additional cables from the kit.



Three Mounting Points

1. Route the cut end of both PCC-2 steel cables to an overhead anchor point (1) using the cable locks to secure the cables in place.

NOTE: The angle between those PCC-2 steel cables and the 0° vertical position directly above the speaker is 45°.

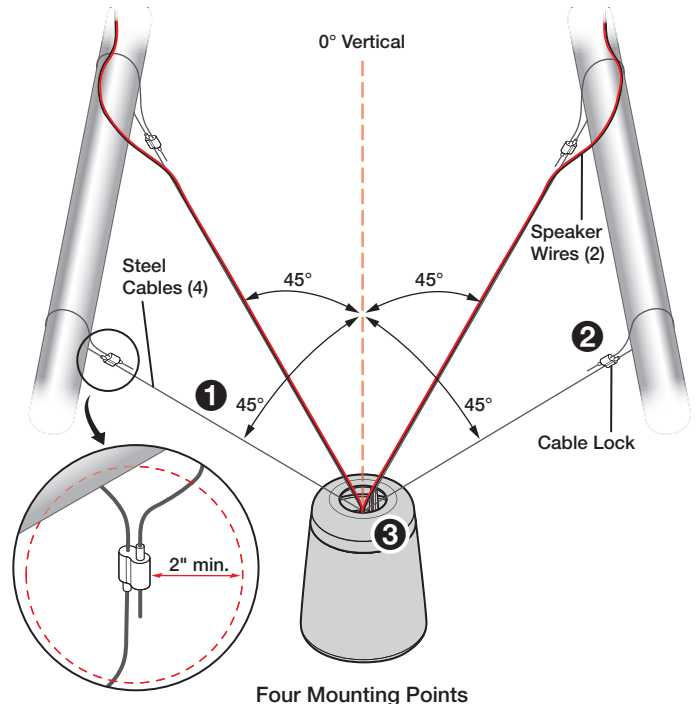
2. Route the two cables from the kit to overhead mounting locations such that angle between those cables (2) and the 0° vertical position directly above the speaker is 45°.
3. The angle between each of the 3 cables and its adjacent cable is 120°.
4. Use cable locks to secure both cables from the kit to the mounting locations (3).

NOTE: In order to ensure that the cable lock is not unintentionally unlocked, keep the area within 2 inches of all cable lock in any direction free of any other objects (see the **WARNING** on page 1).

5. Connect the four swaged steel cable ends (two from the PCC-2 cable and two from the kit) through the speaker cap and to the hook (5).

Optional Four-Cable Installation Kit

The optional Extron SMK A 4C 4-aircraft cable installation kit allows the SF 28PT speaker to be suspended from four or five overhead points, such as from a pipe or eye bolt (when also using the PCC-2 cable).



Four Mounting Points

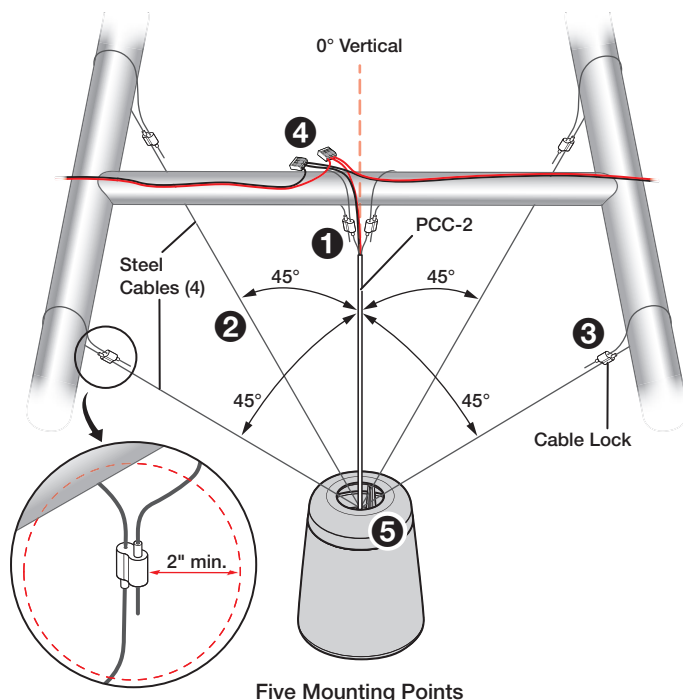
Four mounting points

1. Route the four cables from the kit to overhead mounting locations such that the angle between each cable and the vertical position directly above the speaker is 45° (1).
2. The angle between each of the four cables and its adjacent cable is 90°.
3. Use cable locks to secure the four cables from the kit to the mounting locations (2).

NOTE: In order to ensure that all cable locks are not unintentionally unlocked, keep the area within 2 inches (51 mm) of all cable locks in any direction free of any other objects (see the **WARNING** on page 1).

4. Connect the four swaged steel cable ends from the kit through the speaker cap and to the hook (3).

Five mounting points



1. Route the cut end of both PCC-2 steel cables to an overhead anchor point ① using the cable locks to secure the cables in place.
2. Route the four cables from the kit to the overhead mounting locations ② such that angle between those cables and the 0° vertical position directly above the speaker is 45°.
3. The angle between each of the four kit cables and its adjacent cable is 90°.
4. Use cable locks to secure the four cables from the kit to the mounting locations ③.

NOTE: In order to ensure that the cable lock is not unintentionally unlocked, keep the area within 2 inches (51 mm) of all cable locks in any direction free of any other objects (see the **WARNING** on page 1).

5. Connect the six swaged steel cable ends (two from the PCC-2 cable and four from the kit) through the speaker cap and to the hook ⑤.

NOTE: See the *SF 28PT User Guide* for painting instructions.

See the *SF 28PT User Guide* for further details.

For information on safety guidelines, regulatory compliances, EMI/EMF compatibility, accessibility, and related topics, see the **Extron Safety and Regulatory Compliance Guide** on the Extron website.