

SF 28PT

Pendant Speakers



Extron

Safety Instructions

Safety Instructions • English

WARNING: This symbol, , when used on the product, is intended to alert the user of the presence of uninsulated dangerous voltage within the product's enclosure that may present a risk of electric shock.

ATTENTION: This symbol, , when used on the product, is intended to alert the user of important operating and maintenance (servicing) instructions in the literature provided with the equipment.

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Istruzioni di sicurezza • Italiano

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安全上のご注意 • 日本語

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안전 지침 • 한국어

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NOTE: This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. There is no guarantee that interference will not occur. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, you are encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

In order to maintain compliance with FCC regulations, shielded cables must be used with this equipment. Operation with non-approved equipment or unshielded cables is likely to result in interference to radio and TV reception. The user is cautioned that changes and modifications made to the equipment without the approval of the manufacturer could void the user's authority to operate this equipment.

NOTE: For more 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.

Conventions Used in this Guide

Notifications

The following notifications are used in this guide:

DANGER:

- Will result in serious injury or death.
- Entraînera des blessures graves ou la mort.

ATTENTION:

- Risk of property damage.
- Risque de dommages matériels.

NOTE: A note draws attention to important information.

Specifications Availability

Product specifications are available on the Extron website, www.extron.com.

Extron Glossary of Terms

A glossary of terms is available at <http://www.extron.com/technology/glossary.aspx>.

Contents

Introduction	1
About this Guide.....	1
Overview	1
Features	1
SF 28PT Application Example.....	2

Installation	3
Installing the SF 28PT Speaker	3
Setting the Tap Selection Switch.....	4
Wiring the SF 28PT Speaker Assembly.....	5
Wiring the Amplifier/Previous Speaker.....	8
Wiring the Speaker	9

Reference Information	11
Optional Ceiling Bracket Kit	11
Completing the Ceiling Bracket Installation	13
Optional 2-Aircraft Cable Installation Kit	14
Optional 4-Aircraft Cable Installation Kit	15
Four Mounting Points	15
Five Mounting Points	17
Measuring and Pre-Cutting	
Bulk Speaker Cable.....	18
Mounting to the structure.....	18
Cutting Bulk Cable for the Optional Ceiling	
Bracket.....	20
Painting the Speaker Grille.....	22
Painting the Speaker Enclosure	23

Introduction

This section gives an overview of the Extron SF 28PT pendant speaker. Topics include:

- [About this Guide](#)
- [Overview](#)
- [Features](#)
- [SF 28PT Application Example](#)

About this Guide

This guide describes the installation and set up of the SF 28PT pendant speaker.

Overview

The Extron SF 28PT speaker is a pendant speaker suspended by steel aircraft cables. The SF 28PT is paintable, and ideal for open and mixed ceiling applications.

Features

- **8" (203 mm) long-throw woofer**
1.1" (28 mm) silk dome tweeter
- **Frequency range: 55Hz to 22 kHz**
- **8 ohm direct or 70/100 volt operation —**
 - 8 ohm direct
 - 70 volt: 64, 32, 16, and 8 watt selectable
 - 100 volt: 64, 32, and 16 watt selectable
- **110° conical dispersion — 1 kHz to 4 kHz**
- **90 watts continuous pink noise**
180 watts continuous program
- **Architecturally clean, unobtrusive design using Extron exclusive PendantConnect speaker cable —** Blends in well with contemporary pendant lighting fixtures for an aesthetically pleasing appearance. Includes 30-foot (9.1 m) length of PendantConnect PCC-2 speaker cable per pair
- **Similar voicing to the Extron SF 228T Plus ceiling speaker —** Allows smooth sonic transitions when using SF 28PT and SF 228T Plus speakers in mixed ceiling applications
- **Available in black or white and is paintable to fit in with any décor**
- **UL 1480A listed for safety**
- **Includes:**
 - (4) 2-pole splicing connectors
 - (4) 3-pole splicing connectors
 - 30-foot (9.1 m) length of PendantConnect PCC-2 speaker cable, in black or white
 - Setup Guide

- **Optional accessories include:**
 - 500 foot (152 m) spool of PendantConnect PCC-2 speaker cable in black or white
 - **SMK C SF 26PT** Ceiling Surface Mount Kits for 6-inch or larger pendant speakers, in black or white — Used to surface mount an SF 28PT with a ceiling electrical box.
 - **Optional SMK A Speaker Aircraft Cable Kits** — Used to reduce lateral movement when required by local seismic codes, and when suspending the speaker between ceiling beams. Available in a 2-pack or 4-pack.
- **5-year parts and labor warranty**

SF 28PT Application Example

The following illustration is an example of configuring the SF 28PT speakers for use in a background music and public address system.

NOTE: This speaker is intended for indoor dry environments only.

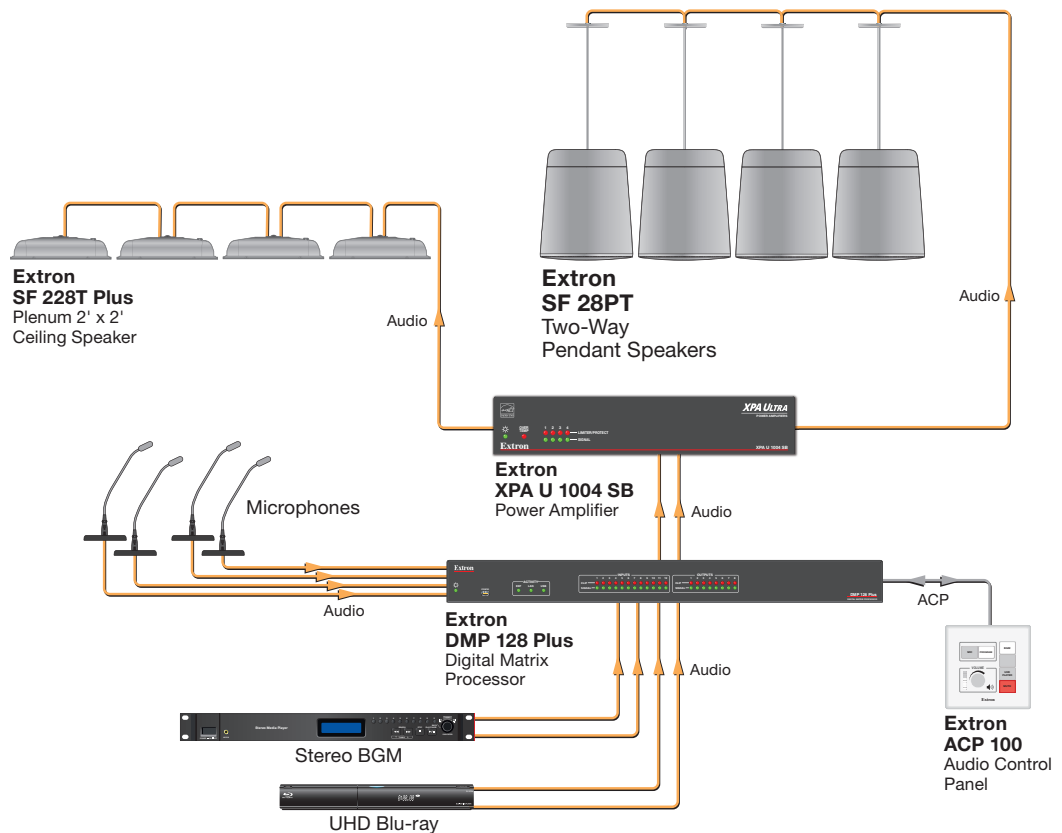


Figure 1. Background Music and Public Address System Application Example

Installation

This section describes the installation of the SF 28PT speaker and includes the following topic:

⚠ WARNING: Risk of personal injury or property damage. 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.

AVERTISSEMENT : Risque de dommages corporels ou matériels. 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.

NOTE: This speaker is intended for flexible wiring connection only.

Installing the SF 28PT Speaker

The SF 28PT speaker is ideal for open ceilings. It is suspended using the PendantConnect-2 cable that is composed of 2 steel support cables and 2 speaker wires.

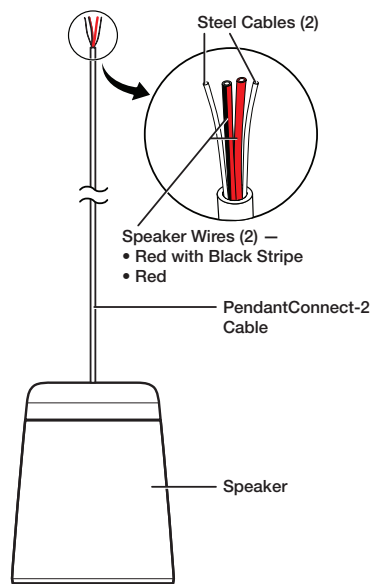


Figure 2. SF 28PT Speaker Assembly

NOTE: If you need to paint the speaker grille or enclosure, please refer to [Painting the Speaker Grille](#) on page 22 and [Painting the Speaker Enclosure](#) on page 23.

Setting the Tap Selection Switch

1. To set the tap selection switch, use the provided grille hook to 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.

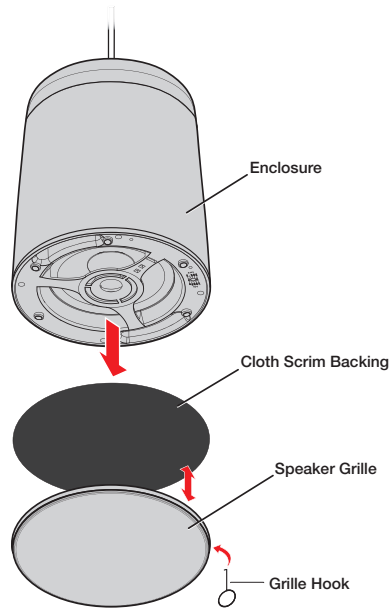


Figure 3. Removing the Speaker Grille

2. Use an Extron Tweezer or small screwdriver to set the tap selection switch to the desired position.

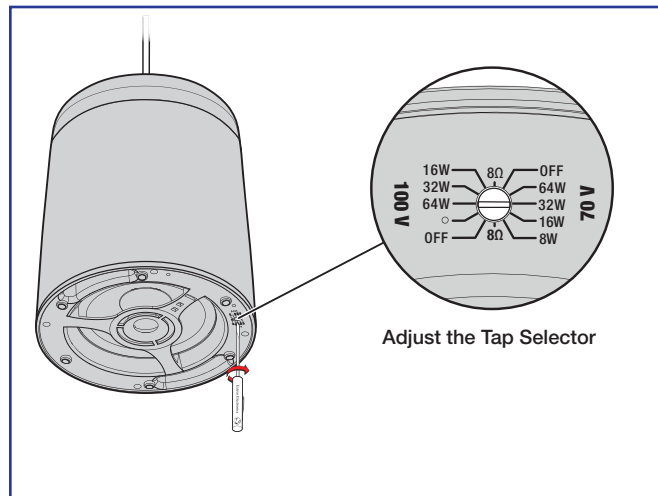


Figure 4. Setting the Tap Selection Switch

3. Replace the speaker grille.

Wiring the Speaker Assembly

The SF 28PT speaker system includes two speakers with removable top caps, a 30-foot length of PendantConnect-2 cable (that consists of two 30-foot lengths of steel support cable, and a 30-foot length of speaker wire), four cable locks, grille hook, and two removable grilles.

NOTE: Each speaker is wrapped in a protective plastic bag. Keep the speaker in this bag as much as necessary to protect the finish of the speaker. The bag may be disposed of once the installation is complete.

Installation requires attaching two steel cables to a suitable overhead structure, attaching the swaged ends of the cables to a hook on 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:

NOTES:

- Make sure to consult and follow local electrical and building codes when mounting the SF 28PT.
- To help determine the necessary length of PendantConnect-2 cable needed, if pre-cutting, refer to **Reference Information** on page 11 and **Measuring and Pre-Cutting Bulk Speaker Cable** on page 18. Otherwise, follow the steps below.
- When using pre-cut cables as described in the Reference Information section, skip steps 3 through 8.

1. Locate a suitable permanent mounting location for the SF 28PT where the two support cables can be securely attached.

NOTE: The structural member of the building must be able to support the complete speaker assembly including the speaker and cap, support cables, and the speaker grille (see the **Warning** on page 3).

2. Run the speaker cable from the amplifier or previous speaker to the mounting location.

NOTE: When using pre-cut cables, as described in the **Reference Information** section, skip steps 3 through 8.

3. Determine the desired height (**B**) from the bottom of the speaker above the floor (see **figure 5** on the next page).

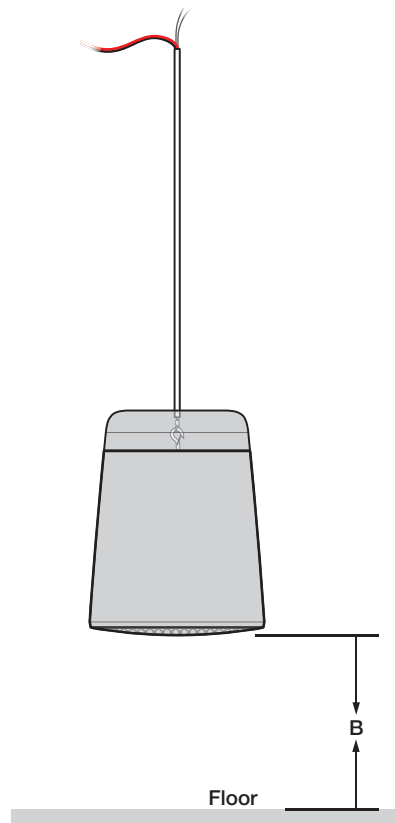


Figure 5. SF 28PT Speaker Height

4. The total cable length, **T**, required (see [figure 6](#) on the next page) is calculated as follows:
 - a. Measure the distance from the floor to the bottom of the mounting structure for the steel cables (value **A**).
 - b. Subtract value **B** (see [step 3](#) on page 5) from value **A**, then subtract 12.25 inches.
 - c. Add to that amount the length of cable needed to encircle the mounting structure while leaving enough slack so that the top of the cable lock is at least 2 inches below the lowest part of the structure (value **C**).

NOTE: In order to ensure that the cable lock is not unintentionally unlocked, keep the area within 2 inches of all cable locks in any direction free of any other objects.

5. Cut the cables using value **T** for the cut length.

NOTES:

- Be sure to allow extra cable length and speaker wire length for the structure attachment points.
- The total cable length includes 1 inch of cable that must extend beyond the bottom of the cable lock (see [figure 6](#) on the next page).

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.

6. See the following illustration.

Subtract value **B** from value **A**, then subtract 17.4 inches (442.02 mm) from that amount. The resulting value, **D** (as shown below), is the strip point.

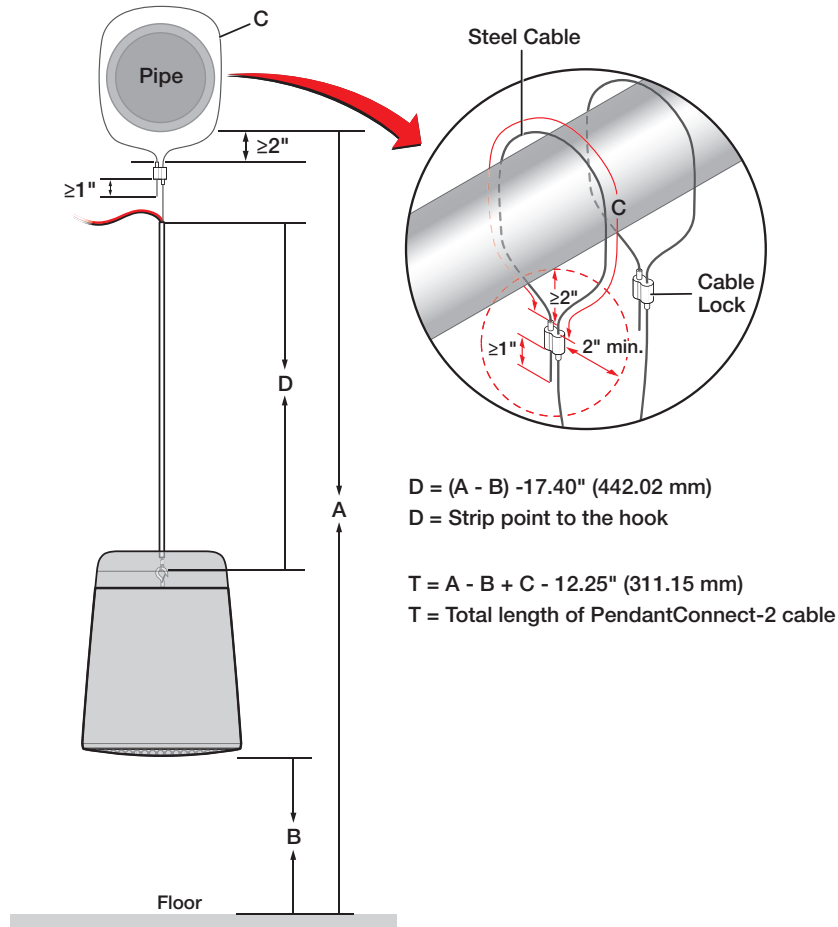


Figure 6. PendantConnect-2 Cable Cut Length

7. Strip off the cable jacket from the cable at the strip point.
8. Position the cable lock so that the end of the cable release is 2 inches from the strip point below.
9. At the structure attachment point end of the support cable, route the cable around or through the attachment structure (see [figure 7](#), [2](#), on the next page).

NOTES:

- In order to ensure that the cable lock is not unintentionally unlocked, keep the area within 2 inches of all cable locks in any direction free of any other objects.
- If the cable locks are within 2 inches of each other then they must be at the same height as each other (see [figure 7](#)).

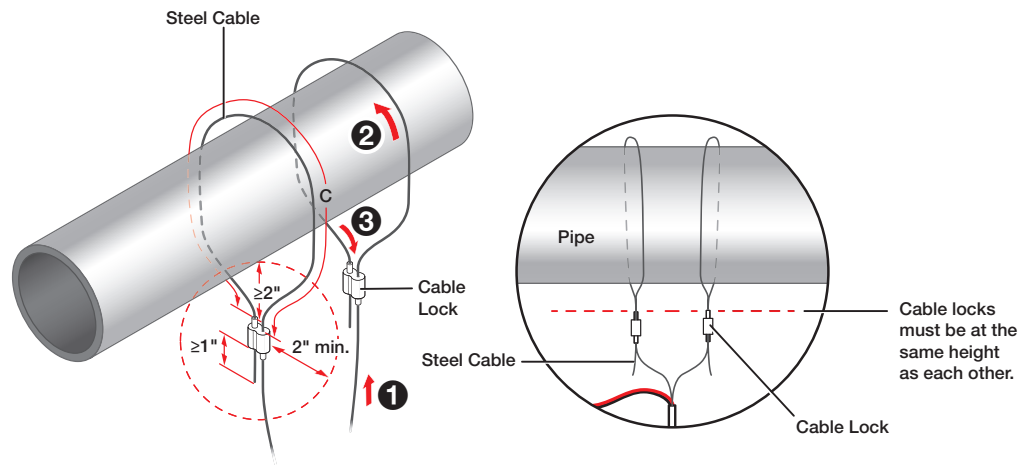


Figure 7. Connecting the Cables to the Support Structure

NOTE: If using the optional 2-cable or 4-cable installation kits, see the sections [Optional 2-Aircraft Cable Installation Kit](#) on page 14, or [Optional 4-Aircraft Cable Installation Kit](#) on page 15, otherwise continue to the next step.

10. Pull enough cable through so that there is at least a 2-inch gap from the top of the cable lock to the bottom of the attachment structure while making sure that at least 1 inch of steel cable protrudes out of the cable lock (see figure 7, ③).

NOTE: If using the optional ceiling bracket kit, see [Optional Ceiling Bracket Kit](#) on page 11 for installation instructions.

Wiring the Amplifier or Previous Speaker

1. Using the guide printed on the side of the splicing connector, strip 7/16 inch (11 mm) from the ceiling end of the protruding black and red wires of the PendantConnect-2 cable. These wires will be inserted into the two 3-pole splicing connectors.
2. Connect the red speaker wire from the cut end of the PendantConnect-2 cable to the included 3-pole splicing connectors (see figure 8).
3. Repeat this process for the red/black speaker wire (see figure 8).

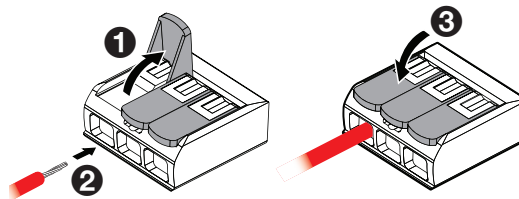
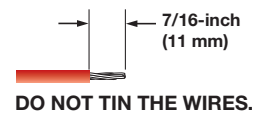


Figure 8. 3-pole Splicing Connector

4. Connect the amplifier/speaker wires coming from the ceiling/junction box to the 3-pole splicing connectors mentioned in the previous step. The red amplifier/speaker wire connects to the splicing connector wired to the red speaker wire, and the black amplifier/speaker wire connects to the splicing connector wired to the black speaker wire.

NOTE: Each pole of the splicing connector can accept up to 12 AWG wire.

Wire the 3-pole splicing connectors for a loop-through configuration, as shown below.

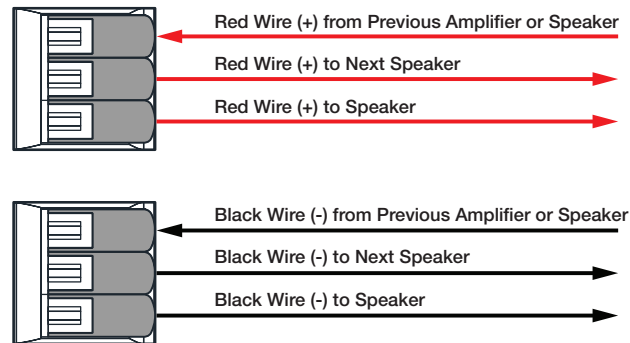


Figure 9. Loop-through Configuration

Wiring the Speaker

1. Remove the speaker cap (see **1** in figure 10) and attach the swaged end of the steel cable through the speaker cap and onto the speaker hook **2** on the top of the speaker, as shown here:

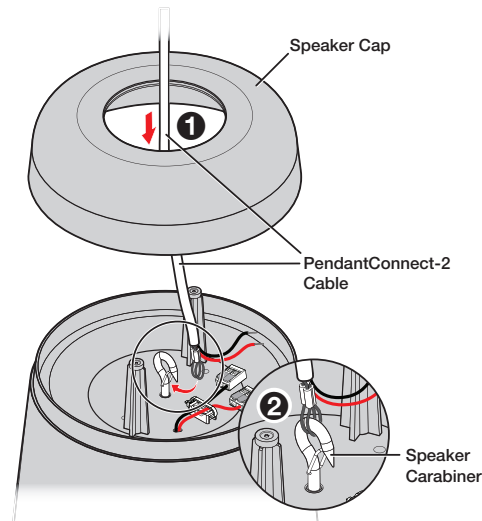
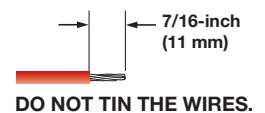


Figure 10. Connecting the Cable to the Hook

The top of the speaker has a red and a red/black speaker wire with splicing connectors attached.

2. Using the guide printed on the side of the splicing connector, strip 7/16 inch (11 mm) from the ends of the red and red/black speaker wires coming from the speaker end of the cable.
3. Lift the splicing connector lever (see **figure 11**, **1** on page 10) 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**)
4. Repeat step three for the red/black wire.



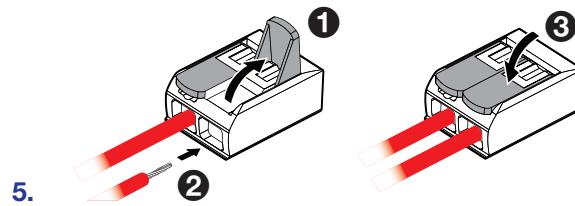


Figure 11. 2-pole Splicing Connector

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

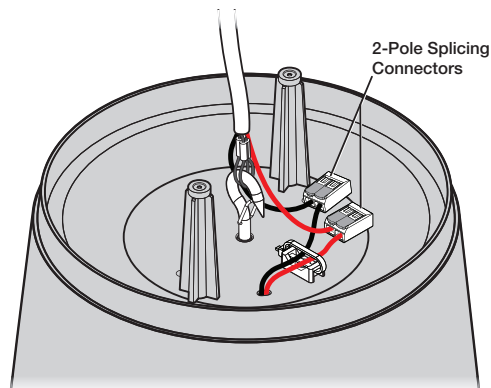


Figure 12. Speaker Wires Connection

6. Replace the speaker cap.

Reference Information

This section includes the following topics:

- [Optional Ceiling Bracket Kit](#)
- [Optional 2-Aircraft Cable Installation Kit](#)
- [Optional 4-Aircraft Cable Installation Kit](#)
- [Measuring and Pre-Cutting Bulk Speaker Cable](#)
- [Painting the Speaker Grille](#)
- [Painting the Speaker Enclosure](#)

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 junction box. The kit consists of a ceiling bracket and a matching magnetic cover (see figure 13).

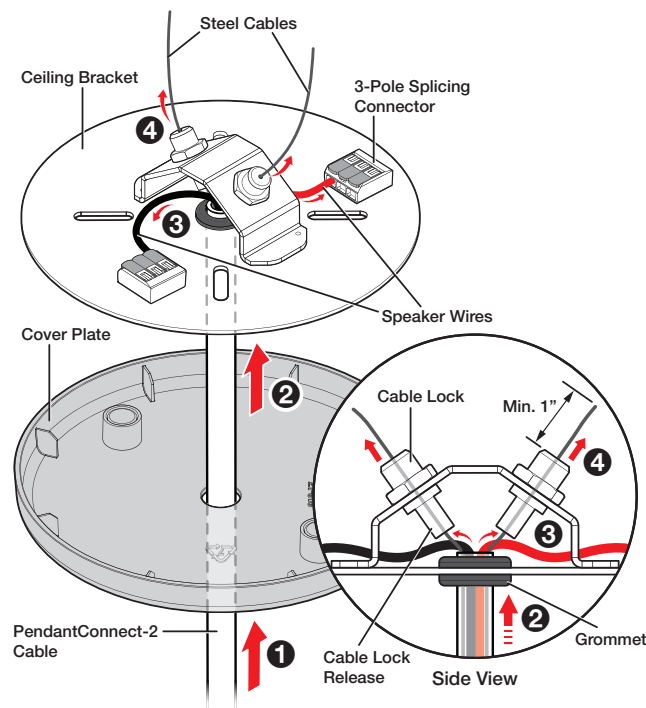


Figure 13. Ceiling Bracket Installation

1. Determine the total length (**T**) of cable needed (see [figure 14](#) on page 12).
 - a. Measure **A**
 - b. Measure **B**
 - c. Subtract **B** from **A** then subtract 10.25 inches.

2. Determine the strip point (**D**) along the cable.
 - a. Subtract 2.14 inches from (**T**).

NOTE: Dimension **D** is the strip point.

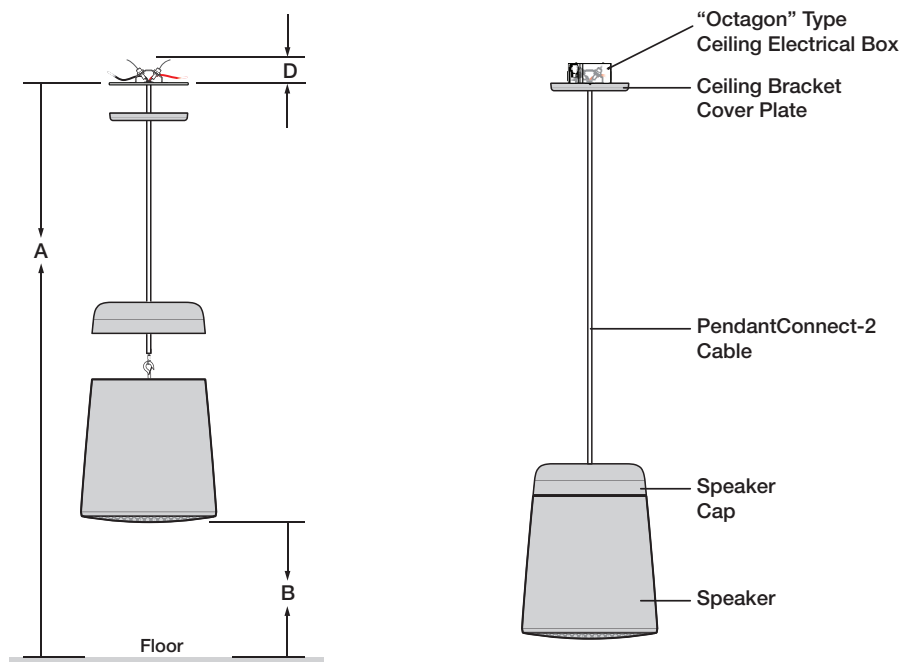


Figure 14. Dimensions and Order of Assembly

3. Cut the cables using value **T** for the cut length.

NOTE: The total cable length includes 1 inch of cable that must extend beyond the bottom of the cable lock, as shown above.

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.

4. Strip off the cable at the strip point using value **D** in the previous step (see figure 14, above) showing the dimensions of the SF 28PT.
5. Route the free end of the PendantConnect-2 cable through the ceiling bracket cover (see [figure 13](#), ①, on page 11) with the magnetic side of the cover facing the ceiling bracket.
6. Route the free ends of the two steel support cables through the two ceiling bracket cable locks (④). Pull the steel support cable up until the top of the jacket is flush with the top of the grommet (②). 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.

7. See [Wiring the Amplifier or Previous Speaker](#) on page 8 before returning to here and continuing to the next section.

Completing the Ceiling Bracket Installation

1. To set the tap selection, see [Setting the Tap Selection Switch](#) on page 4.
2. Attach the ceiling bracket to the junction box using two screws, with the 3-pole splicing connectors and excess steel cable inserted into the junction box.

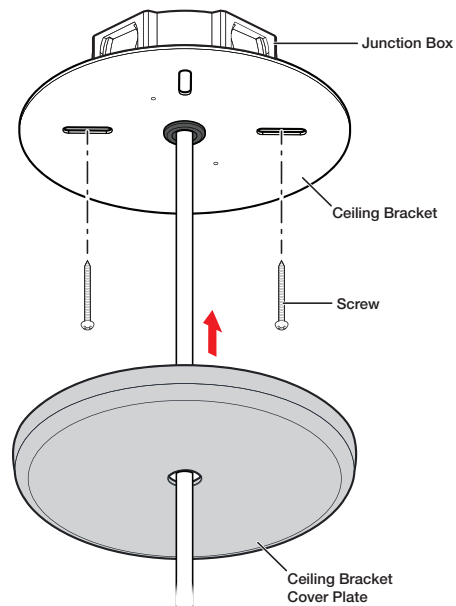


Figure 15. Ceiling Bracket to Junction Box Attachment

3. Attach the ceiling bracket cover onto the ceiling bracket, as shown above. Two small magnets secure the cover plate in place.
4. Wire the speaker (see [Wiring the Speaker](#) on page 9).

Optional 2-Aircraft Cable Installation Kit

To set the tap selection, see [Setting the Tap Selection Switch](#) on page 4.

The optional Extron SMK A 2C 2-aircraft cable installation kit allows the SF 28PT speaker to be suspended from 3 overhead points using the two included PendantConnect-2 steel cables and the two additional cables from the kit.

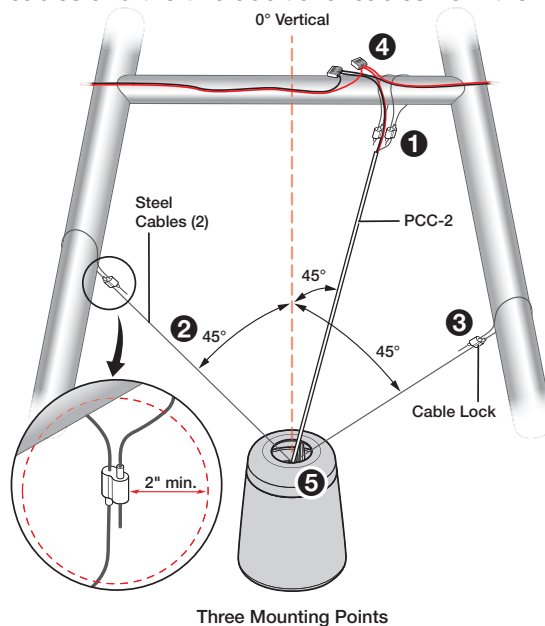


Figure 16. 2-Cable Installation

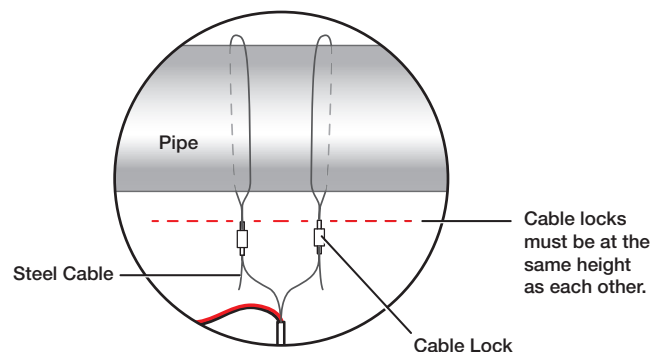
1. Route the cut ends of both PendantConnect-2 steel cables to an overhead anchor point **1** using the cable locks to secure the cables in place.

NOTE: The angle between those PendantConnect-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 the angle between those two cables and the 0° vertical position directly above the speaker is 45°.
3. The angle between each of the three cables and its adjacent cable is 120°.
4. Use cable locks to secure both cables from the kit to the mounting locations **2** and **3**.

NOTE:

- In order to ensure that the cable lock is not unintentionally unlocked, keep the area within 2 inches of all cable locks in any direction free of any other objects.
- If cable locks need to be within 2 inches of each other they must be at the same height.



5. See [Wiring the Amplifier/Previous Speaker](#) on page 8.
6. See [Wiring the Speaker](#) on page 9.

NOTE: The speaker cap will have to remain attached while wiring the speaker.

Optional 4-Aircraft Cable Installation Kit

The optional Extron SMK A 4C 4-aircraft cable installation kit allows the SF 28PT speaker to be suspended from 4 overhead points or 5 overhead points (when also using the PendantConnect-2 cable).

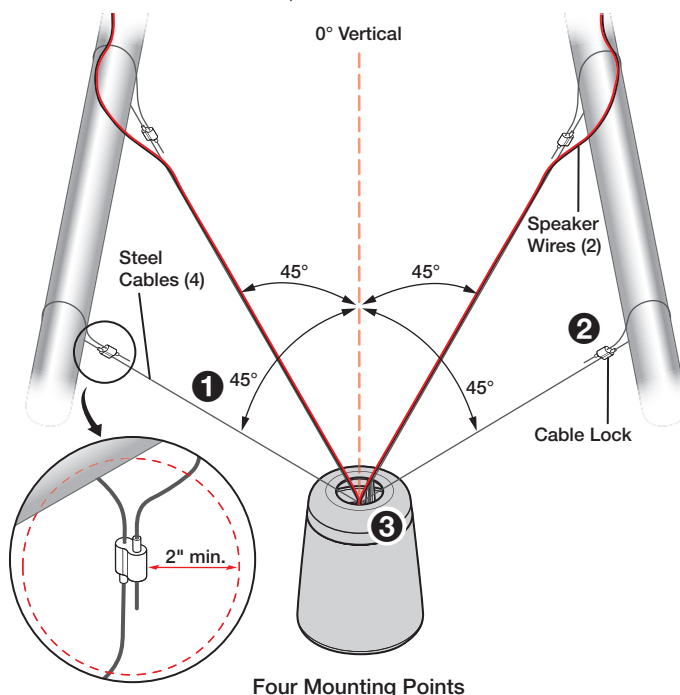


Figure 17. 4-Cable Installation

Four Mounting Points

1. To set the tap selection, see [Setting the Tap Selection Switch](#) on page 4.
2. 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° (see figure 17, ①, above).
3. The angle between each of the four cables and its adjacent cable is 90°.
4. Use cable locks to secure the four cables from the kit to the mounting locations (②).

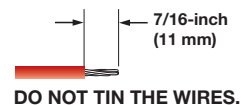
NOTE: In order to ensure that the cable lock is not unintentionally unlocked, keep the area within two inches of all cable locks in any direction free of any other objects.

5. Remove the 2-pole splicing connectors at the speaker and replace them with the supplied 3-pole splicing connectors.
6. Pull the speaker wires so that they hang outside the speaker cap.
7. Connect the four swaged steel cable ends from the kit through the speaker cap and to the hook (see [figure 18](#), ③ page 16).

8. Connect the amplifier or speaker wires to the 3-pole splicing connectors, as shown below.

- a. Connect the red and the red/black amplifier or speaker wires to the 3-pole splicing connectors on the speakers, as shown below.

Using the guide printed on the side of the splicing connector, strip 7/16-inch (11 mm) from the red and red/black wires of the speaker cable. These wires will be inserted into the two 3-pole splicing connectors.



- b. Lift one lever of one 3-pole splicing connector ① and insert the stripped end of the red amplifier or speaker wire into an empty pole of the connector ②. Press the lever down to lock the red wire in place ③. Repeat this process for the red/black amplifier or speaker wire (see figure 18).

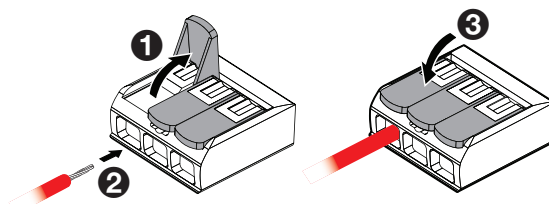


Figure 18. 3-pole Splicing Connector

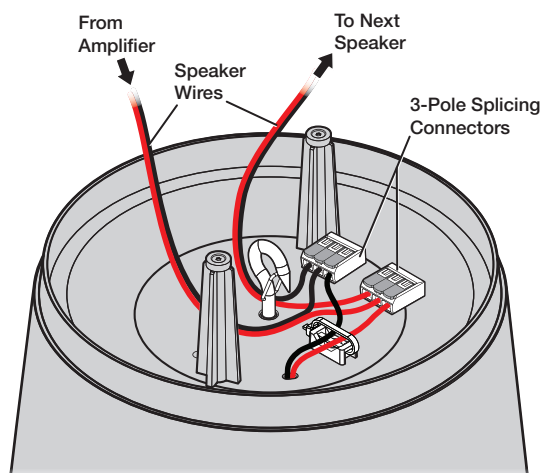


Figure 19. Using 3-pole Splicing Connectors

- c. Wire the 3-pole splicing connectors for a loop-through configuration.

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

d. Loop-through:

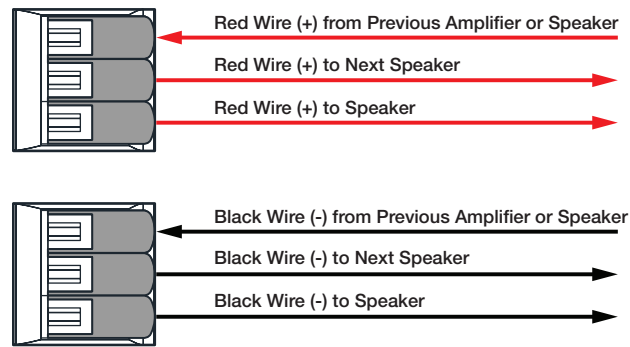


Figure 20. Loop-through Configuration

9. When daisy chaining speakers, run a speaker wire from each 3-pole splicing connector through the speaker cap and to the next speaker (see [figure 19](#), on the previous page).

NOTE: Amplifier wires going to the 3-pole splicing connector, and speaker wires being daisy chained to the next speaker may be neatly routed along a steel cable using zip ties.

Five Mounting Points

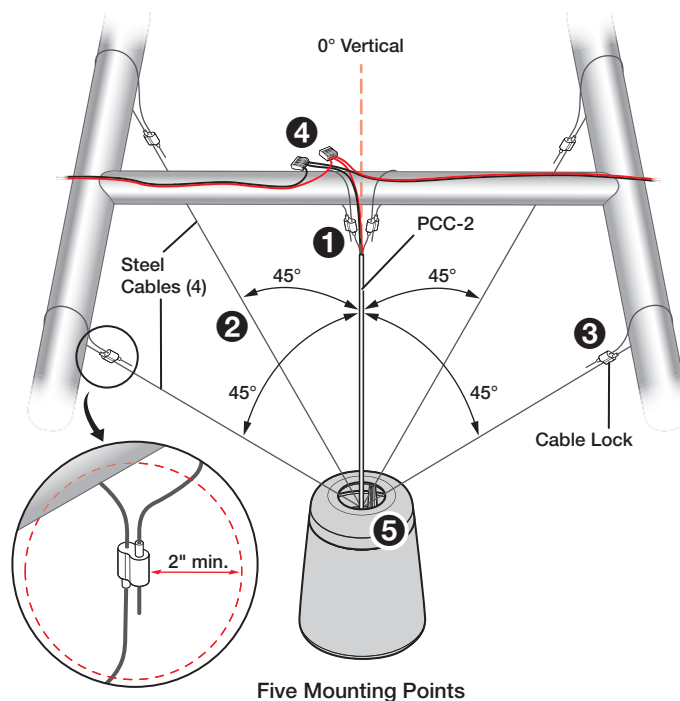


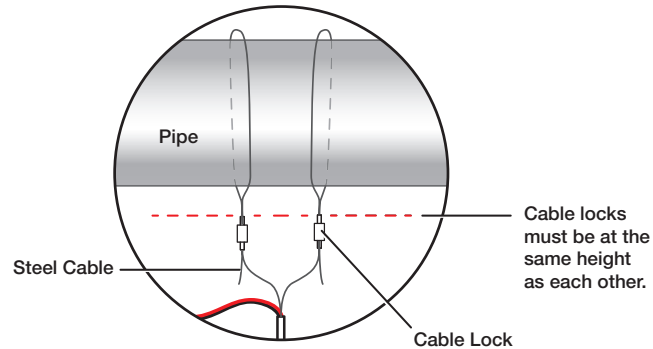
Figure 21. Using Five Mounting Points

1. To set the tap selection, see [Setting the Tap Selection Switch](#) on page 4.
2. Follow the installation procedures in the sections: on page 4, [Wiring the Amplifier/Previous Speaker](#) on page 8, and [Wiring the Speaker](#) on page 9.
3. Route the four cables from the kit to the overhead mounting locations ② such that the angle between those cables and the 0° vertical position directly above the speaker is 45°.
4. The angle between each of the 4 kit cables and its adjacent kit cable is 90°.

5. Use cable locks to secure the 4 cables from the kit to the mounting locations ③.

NOTES:

- In order to ensure that the cable lock is not unintentionally unlocked, keep the area within 2 inches of all cable locks in any direction free of any other objects.
- If cable locks need to be within 2 inches of each other they must be at the same height.



6. Connect the 4 remaining swaged steel cable ends (the 2 from the PendantConnect-2 cable should already be attached during a previous step through the speaker cap and to the hook (see [figure 21](#), ⑤, on the previous page).

Measuring and Pre-Cutting Bulk Speaker Cable

This section describes the measuring and cutting of bulk PendantConnect-2 speaker cable.

Mounting to the Structure

1. Calculate the total length of cable needed (see [figure 22](#) on page 19).
 - a. Measure the distance from the floor to the bottom of the mounting structure for the steel cables (value **A**).
 - b. Next, measure the distance from from the floor to the bottom of the speaker at the planned hanging height (value **B**).
 - c. Determine the value of **C** that is the extra cable length needed to attach to or around the mounting structure.
 - d. Calculate the total length using the following formula where “T” is the total length where $T = A - B + C - 7.37$ inches.

NOTES:

- In order to ensure that the cable lock is not unintentionally unlocked, keep the area within 2 inches of all cable locks in any direction free of any other objects.
- The total cable length includes 1 inch of cable that must extend beyond the cable lock, as shown in the following illustration.
- If cable locks need to be within 2 inches of each other they must be at the same height.

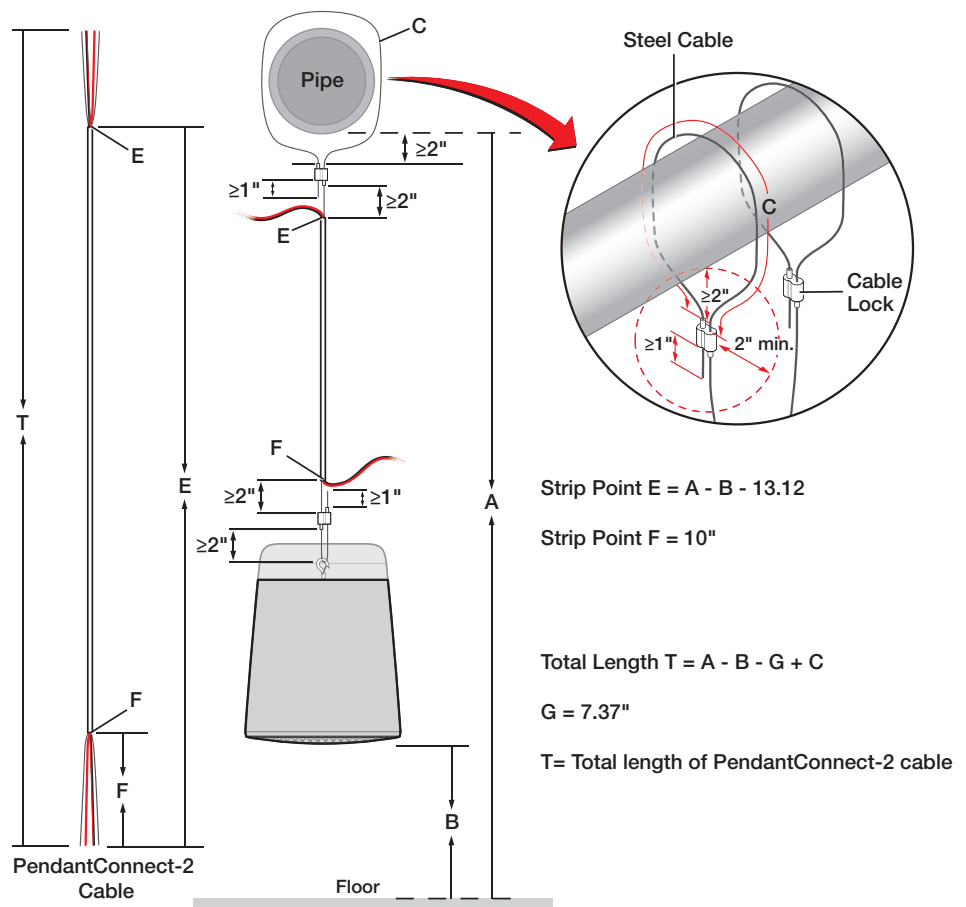
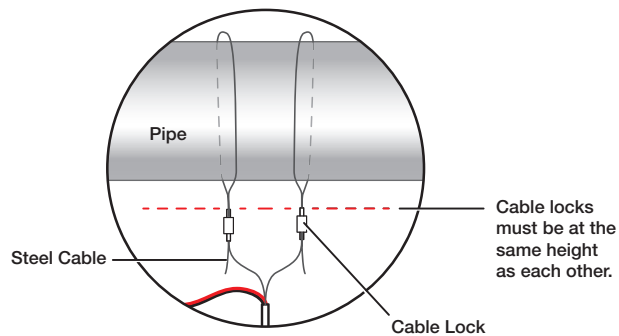


Figure 22. Bulk Pendant Connect-2 Cable Cut Length

2. Determine and mark the strip points, (see [figure 21](#), **E** and **F**).
3. Cut the cables using value **T** as the cut 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.

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.

4. Strip off the cable jacket from the cable at the strip points, **E** and **F**.
5. Position the cable locks so that the ends of the cable locks are at least 2 inches from the strip point.
6. On the speaker end of the cable, form two loops with the two steel cables using the cable locks. Make sure that at least 1 inch of steel cable protrudes from the cable lock and that the end of the cable lock is at least 2 inches from the the top of the speaker hook, then position the two loops through the hook.
7. Proceed to **Wiring the Speaker Assembly** on page 5, and continue the installation from step 9.

Cutting Bulk Cable for the Optional Ceiling Bracket

Follow the steps below when cutting bulk PendantConnect-2 speaker cable for optional ceiling bracket installation.

1. Measure the distance from the floor to the bottom of the ceiling bracket (value **A**) (see **figure 24** on page 22).
2. Measure the distance from from the floor to the bottom of the speaker at the planned hanging height (value **B**).
3. The total cable length needed, **T**, can be calculated, as follows:
$$\mathbf{T = A - B - 5.26 \text{ inches}}$$
4. Cut the cable using **T** as the cut length.

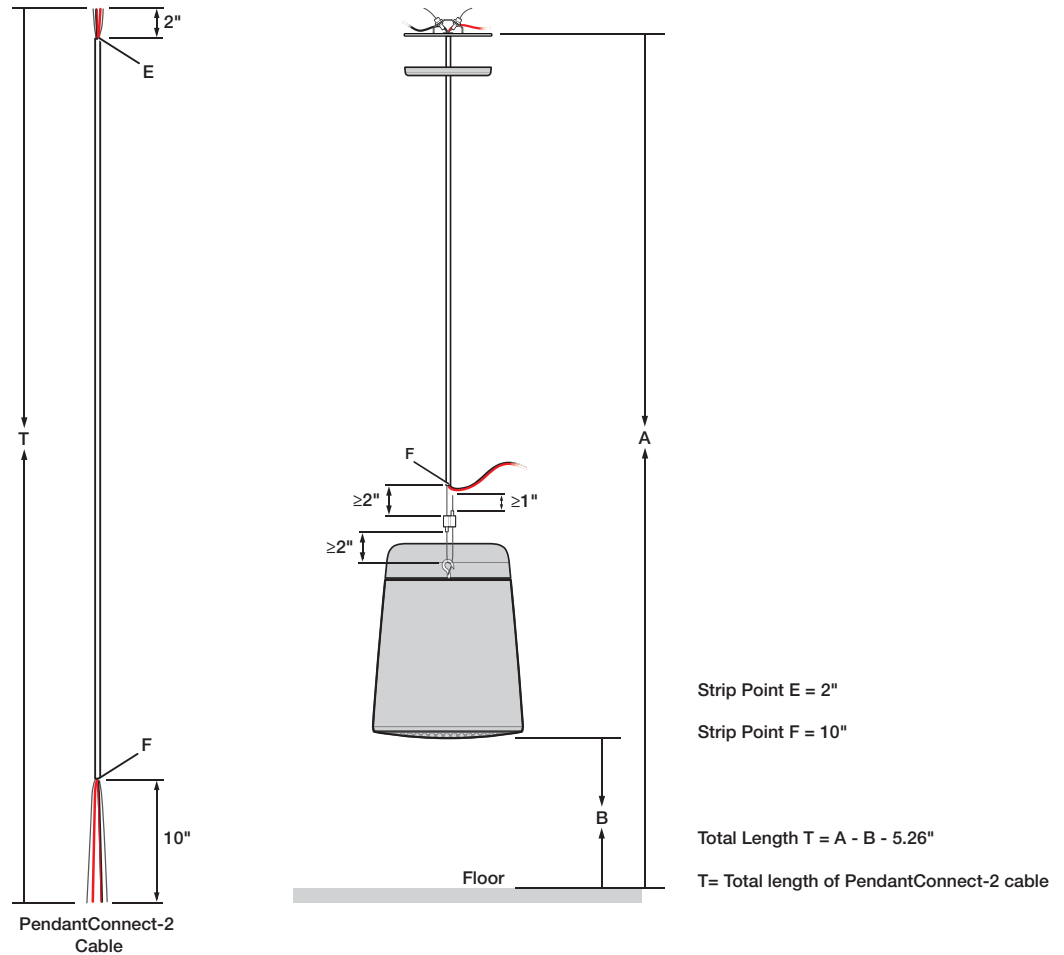


Figure 23. Cutting Bulk Cable for Ceiling Bracket

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. Determine and mark the strip points, **E** and **F**, as shown in the above illustration where **E** is 2 inches from the cut end and **F** is 10 inches from the cut end.
6. Strip off the cable jacket from the cable at the strip points, **E** and **F**.
7. On the speaker end of the cable, form a loop with the steel cable using the cable lock. Make sure that a least 1 inch of steel cable protrudes from the cable lock and that the end of the cable lock is at least 2 inches from the the top of the speaker hook. Position the two loops through the hook.
8. Route the free end of the PendantConnect-2 cable through the ceiling bracket cover **1** with the magnetic side of the cover facing the ceiling bracket (see the illustration below).
9. Route the free ends of the two steel support cables through the two ceiling bracket cable locks (see figure 23) **4**. Pull the steel support cable up until the top of the jacket is flush with the top of the grommet as shown in the illustration below (see the inset side view **2**). 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.

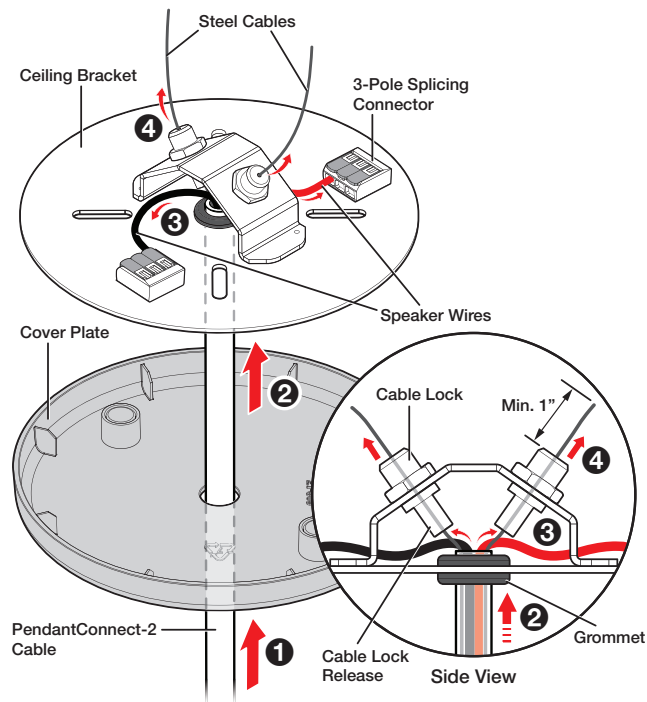


Figure 24. Installing Bulk Cable at Ceiling Bracket

10. Proceed to [Completing the Ceiling Bracket Installation](#) on page 13 and continue the installation.

Painting the Speaker Grille

The removable speaker grille can be painted using spray paint. Ensure that the spray paint adheres to both metal and plastic.

NOTE: Extron is not responsible for any alterations to the original paint.

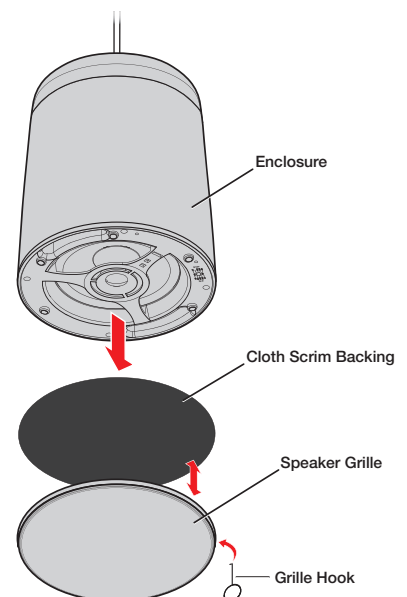
To paint the grille:

1. Remove the grille from the speaker using the included grille hook.
2. Remove and set aside the cloth scrim from the back side of the grille.
3. Peel off the Extron logo from the front of the grille.
4. Spray paint the front side of the grille.

NOTES:

- Apply an even coat across the entire front surface.
- Be sure not to clog the grille holes.

5. Wait for the paint to dry.
6. Reattach the cloth scrim that was removed in step 2 to the back of the grille.
7. Reattach the Extron logo.



8. Reattach the grille to the speaker. Six small magnets secure the grille in place.

Painting the Speaker Enclosure

The speaker enclosure can be painted using spray paint. Ensure that the spray paint adheres to both metal and plastic.

NOTE: Extron is not responsible for any alterations to the original paint.

To paint the enclosure:

1. Remove the grille from the speaker using the included grille hook (see the previous section for grille painting details).
2. Mask the front baffle when painting the enclosure.
3. Spray paint the enclosure with a plastics-safe paint.
4. Wait for the paint to dry.
5. Reattach the grille.

Extron Warranty

Extron warrants this product against defects in materials and workmanship for a period of three years from the date of purchase. In the event of malfunction during the warranty period attributable directly to faulty workmanship and/or materials, Extron will, at its option, repair or replace said products or components, to whatever extent it shall deem necessary to restore said product to proper operating condition, provided that it is returned within the warranty period, with proof of purchase and description of malfunction to:

**USA, Canada, South America,
and Central America:**

Extron
1230 South Lewis Street
Anaheim, CA 92805
U.S.A.

Asia:

Extron Asia Pte Ltd
135 Joo Seng Road, #04-01
PM Industrial Bldg.
Singapore 368363
Singapore

Japan:

Extron Japan
Kyodo Building, 16 Ichibancho
Chiyoda-ku, Tokyo 102-0082
Japan

Europe:

Extron Europe
Hanzeboulevard 10
3825 PH Amersfoort
The Netherlands

China:

Extron China
686 Ronghua Road
Songjiang District
Shanghai 201611
China

Middle East:

Extron Middle East
Dubai Airport Free Zone
F13, PO Box 293666
United Arab Emirates, Dubai

Africa:

Extron South Africa
3rd Floor, South Tower
160 Jan Smuts Avenue
Rosebank 2196, South Africa

This Limited Warranty does not apply if the fault has been caused by misuse, improper handling care, electrical or mechanical abuse, abnormal operating conditions, or if modifications were made to the product that were not authorized by Extron.

NOTE: If a product is defective, please call Extron and ask for an Application Engineer to receive an RA (Return Authorization) number. This will begin the repair process.

USA: 714.491.1500 or 800.633.9876

Asia: 65.6383.4400

Europe: 31.33.453.4040 or 800.3987.6673

Japan: 81.3.3511.7655

Africa: 27.11.447.6162

Middle East: 971.4.299.1800

Units must be returned insured, with shipping charges prepaid. If not insured, you assume the risk of loss or damage during shipment. Returned units must include the serial number and a description of the problem, as well as the name of the person to contact in case there are any questions.

Extron makes no further warranties either expressed or implied with respect to the product and its quality, performance, merchantability, or fitness for any particular use. In no event will Extron be liable for direct, indirect, or consequential damages resulting from any defect in this product even if Extron has been advised of such damage.

Please note that laws vary from state to state and country to country, and that some provisions of this warranty may not apply to you.