

FIELD CUTTING INSTRUCTIONS: RESIZE

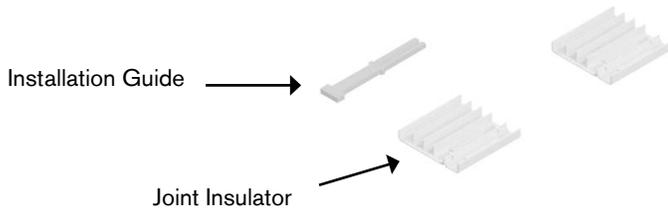
Resize Cutting Procedure (to prepare the cut ends on a length of straight, to be used to continue a run of Plug-In Raceway)

Starline Plug-In Raceway was designed to allow for in field customization to fit the as-built dimensions of the application in which the raceway is to be installed. The field customization can be accomplished by cutting/trimming the end feeds, center feeds, straight joiner sections or the elbows of the installed system in both power and power & data systems.

When Plug-In Raceway is cut in the field, care must be taken to ensure that the field cut ends are properly insulated. This is essential for maintaining proper clearances for live electrical parts and safe operation of the system.

Field cutting parts are included with straights. See page 2.2 and 3.2 for contents.

*The Installation Guide has embossed dimensions to assist on dimensions as discussed through the procedure.

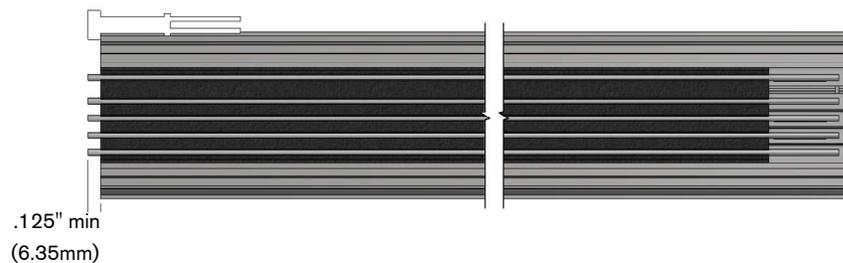


Step 1. Cut one end of the straight to the new desired length. Cutting can be performed by using a chop saw with a finishing blade, similar to a 14" diameter blade, 66 tooth carbide tipped blade.

Cut End

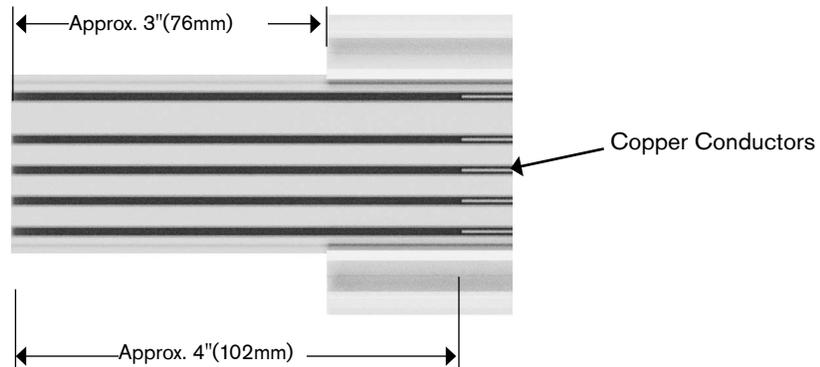


Step 2. Push only the copper conductors past the end of the black insulator and out of the aluminum backplane. Then cut off a minimum of .125" off the copper conductors, using the Installation Guide for measuring.



FIELD CUTTING INSTRUCTIONS: RESIZE (cont'd)

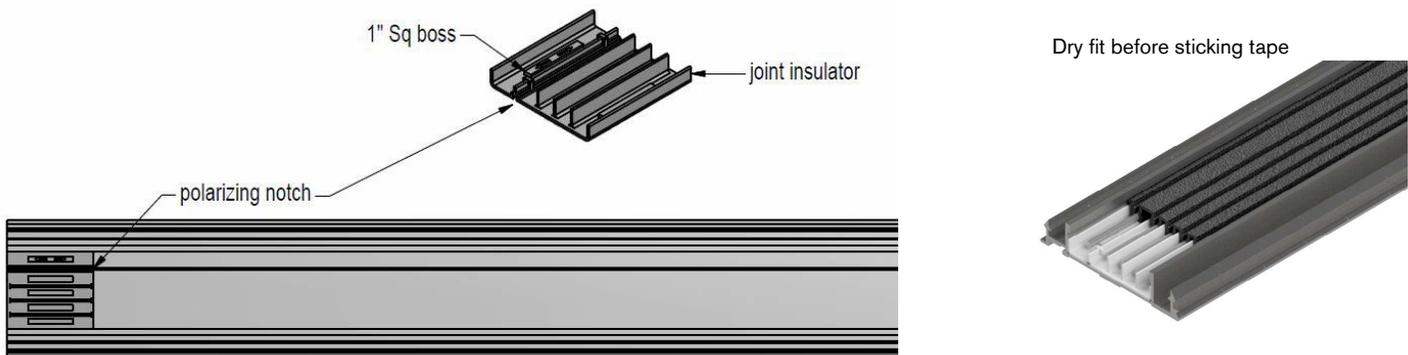
Step 3. Slide only the black insulator further out of the backplane to total about 3". Using a flat tip screw driver, push the copper conductors back to about 4 inches (102mm) from the end into the aluminum backplane as shown.



Step 4. Now cut 1.405" (36mm) off the end of the black insulator. Push the black insulator back into the aluminum housing, until its opposite edge lines up with the 1" (25mm) square boss on the other side. The black insulator now will slightly overlap the pre-installed joint insulator on the opposite side. Push the copper conductor back into place, roughly .250 inches from the end.

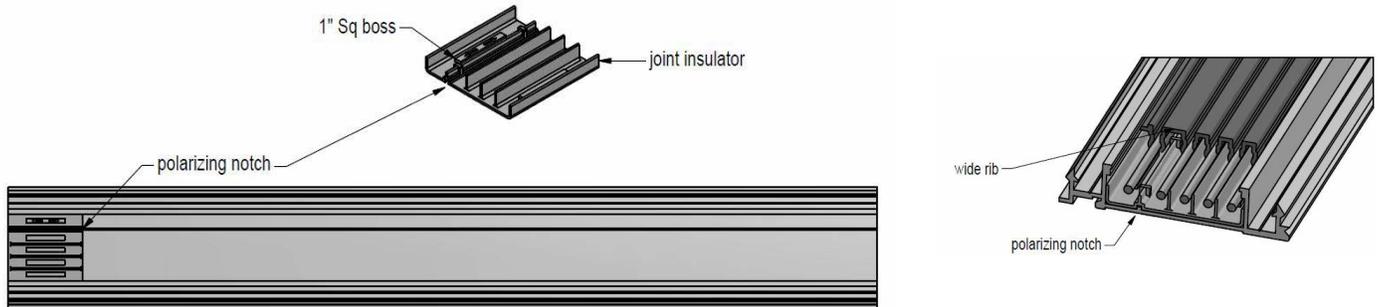


Step 5. To install the joint insulator, slide the joint insulator under the copper conductor by removing the protective plastic off the double sided tape and sliding under the copper conductors, making sure the joint insulator edge is flush with the end of the aluminum housing. Press firmly down to secure the joint insulator to the aluminum housing. Be aware of the orientation of the polarizing notch on the backplane and the joint insulator.

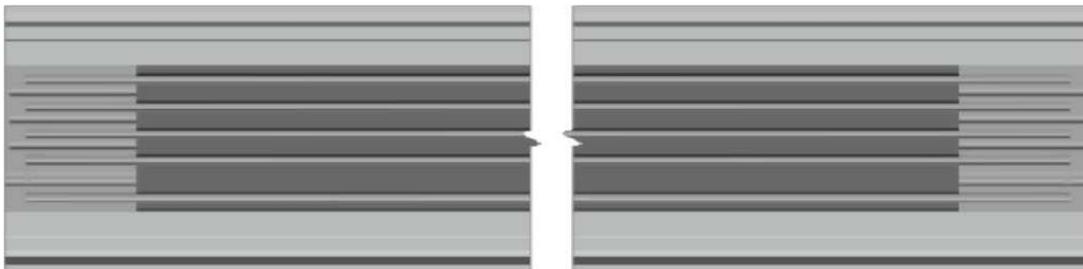


FIELD CUTTING INSTRUCTIONS: RESIZE (cont'd)

Step 6. Inspect to see if the black insulator is slid and aligned to the inside edge of the 1" square boss on the installed joint insulator. Then check to see if the end of the copper conductors are lined up with the outside of the 1" square boss. Adjust as necessary. *Be sure to match the insulators wide rib up with the polarizing notch.*



Step 7. The process for resizing a raceway straight is now complete. Below is an example of a finished resized straight.



FIELD CUTTING INSTRUCTIONS: ENDING RUNS

Ending Runs (for ending standard or field cut runs of Plug-In Raceway)

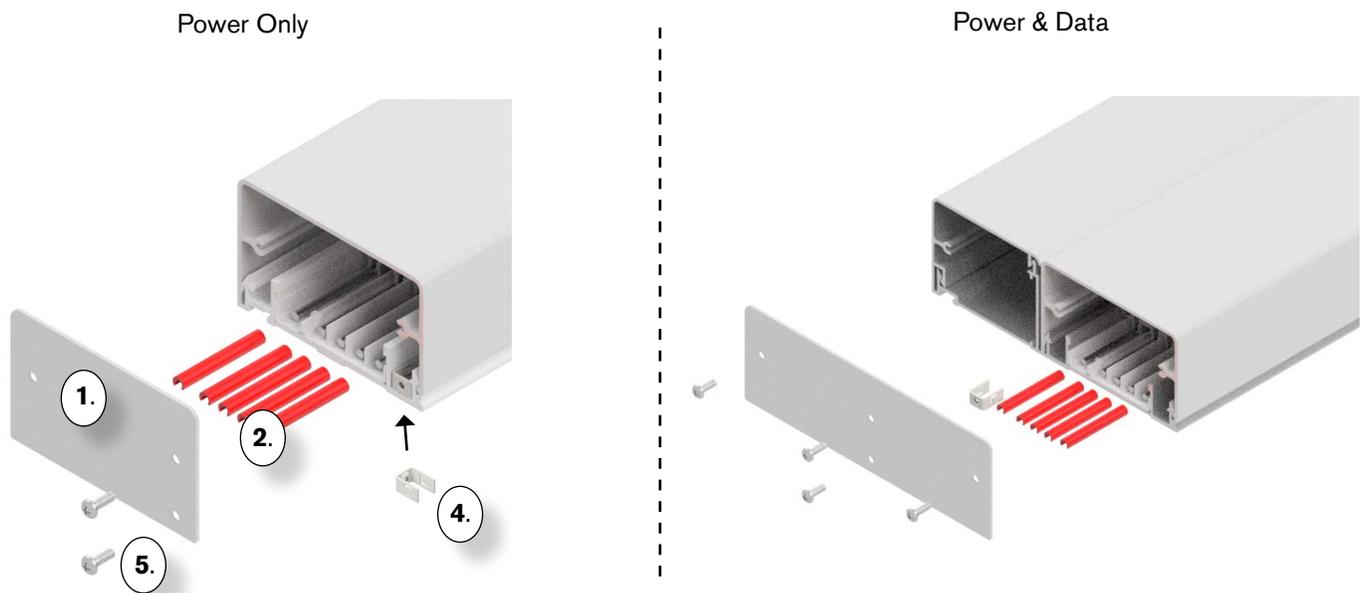
When a Plug-In Raceway run needs terminated in the field, care must be taken to ensure that the field cut ends are insulated. This is essential for maintaining proper clearances for live electrical parts and safe operation of the system.

To order end cap kits, please see pg. 2.12 and 3.14 for catalog numbers. The contents of these kits contain parts for both standard and field cut ends.

To properly end a raceway straight that **has not** been cut from its original length:

End Cap Kit contents:

1. Steel End Cap Plate
2. Insulator Sleeves (Red, qty 5)
3. Plastic End Cap (Left and Right) - (not used for uncut straights)
4. End Cap Clip
5. Screws



Step 1. Slide the insulator sleeves (2) over each exposed conductor on the straight end.

Step 2. To attach the steel end cap plate (1), install the end cap clip (4) into the channel. Attach screw (5) to hold end cap (1) in place.

Step 3. Snap the power cover into place, aligning the steel end cap plate holes with the screw channels, then insert remaining 2 screws.

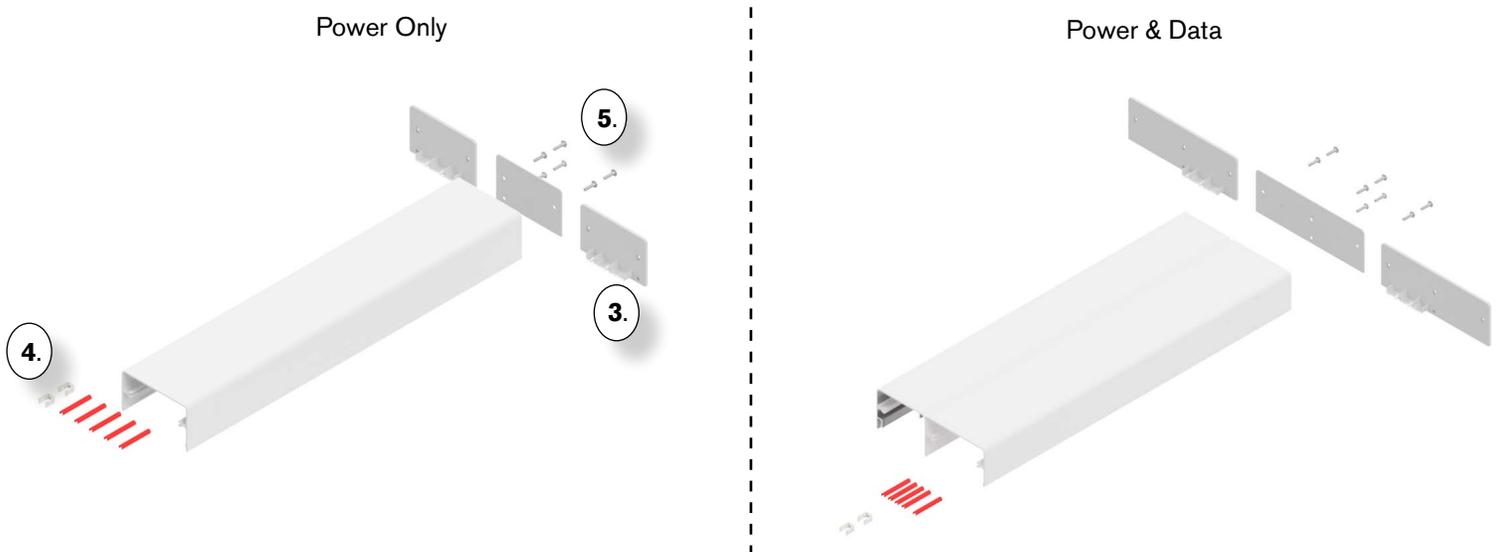
Step 4: The plastic end caps (3) are not used and can be discarded.

FIELD CUTTING INSTRUCTIONS: ENDING RUNS

To properly end a raceway straight that **has been shortened** from its original length:

End Cap Kit contents:

1. Steel End Cap Plate (not used on cut straights)
2. Insulator Sleeves (Red, qty 5) (not used on cut straights)
3. Plastic End Cap (Left and Right)
4. End Cap Clip
5. Screws



Step 1. Cut the straight to the desired length.

Step 2. To attach the plastic end cap (3) to a cut end of straight, install the end cap clip (4) into the large channel.

Step 3. Choose the correct plastic end cap (3) (left or right), secure the end cap to the straight by inserting one screw (5) into the end cap clip (4) and tighten.

Step 4: Snap the power cover into place, aligning the screw channels with the end cap holes, then insert remaining 2 screws.

Step 5: The steel end cap plate (1) and red insulator sleeves (2) are not used and can be discarded.

WARNING: The steel end cap plate cannot be used to end a run that has been cut.

FLUSH CUTTING KITS: PRODUCT NUMBERS



1. System (*standard of measure*)

S Standard (identical regardless of U.S. or Metric)

2. Product Line (*section housing*)

RP Raceway Power **RD** Raceway Dual

3. Product Type (*section component*)

S Straight

4. Product Frame (*maximum amperage*)

020 20 amps (*U.S. & Metric*) **060** 60 amps (*U.S.*)
063 63 amps (*Metric*)

5. Kit (*signifies a flush field cutting kit*)

FIELD FLUSH CUT KIT Flush Kit

6. Color (*allows a colored end cap*)

SIL UEC Silver **BLK** UEC Black

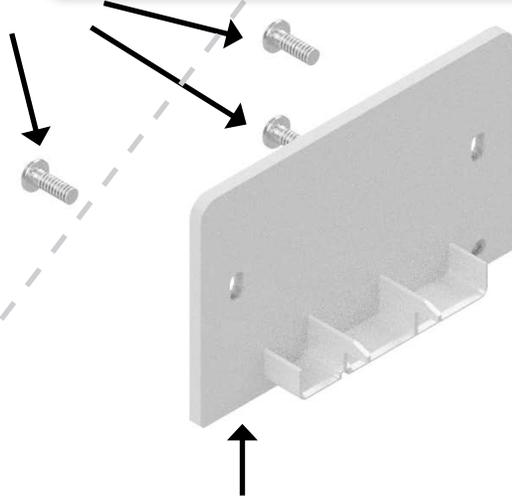
Examples:

SRDS060-FIELD FLUSH CUT KIT-S

SRPS020-FIELD FLUSH CUT KIT-B

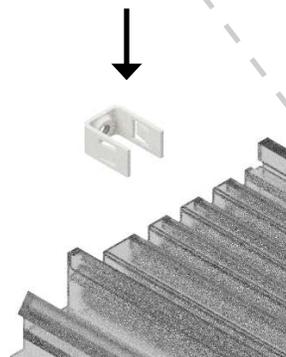
Flush cut kit components are now included with the End Cap Kit. See pg. 2.12 for Power Only & pg. 3.14 for Power & Data

Screws



End Cap (two provided)

End Cap Glip

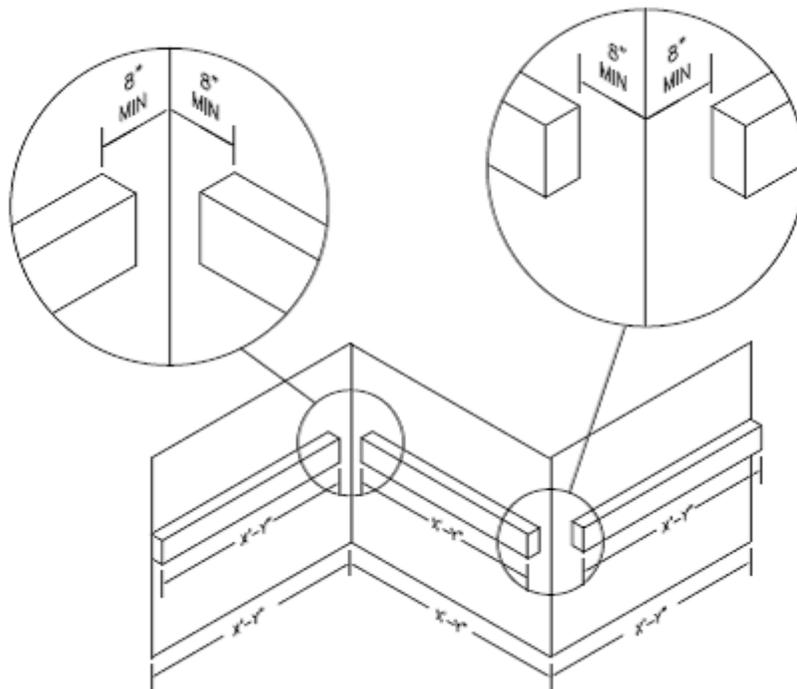


FIELD CUTTING: ELBOWS

STARLINE Plug-In Raceway was designed to allow for in field customization to fit the as-built dimensions of the application in which the raceway is to be installed. The field customization can be accomplished by cutting/trimming the end feeds, center feeds, straight joiner sections or the elbows of the installed system in both power and power & data systems. **It should be noted that a maximum of 4" (101.6mm) can be removed from the end feeds and center feeds, and a maximum of 4" (101.6mm) can be removed from each of the legs that create an elbow.** The cutting/trimming is easily accomplished with the use of a cut-off saw. The backplanes contain the copper busbars that supply the power to the plug-in modules. **These backplane sections can also be cut with use of the proper instructions.**

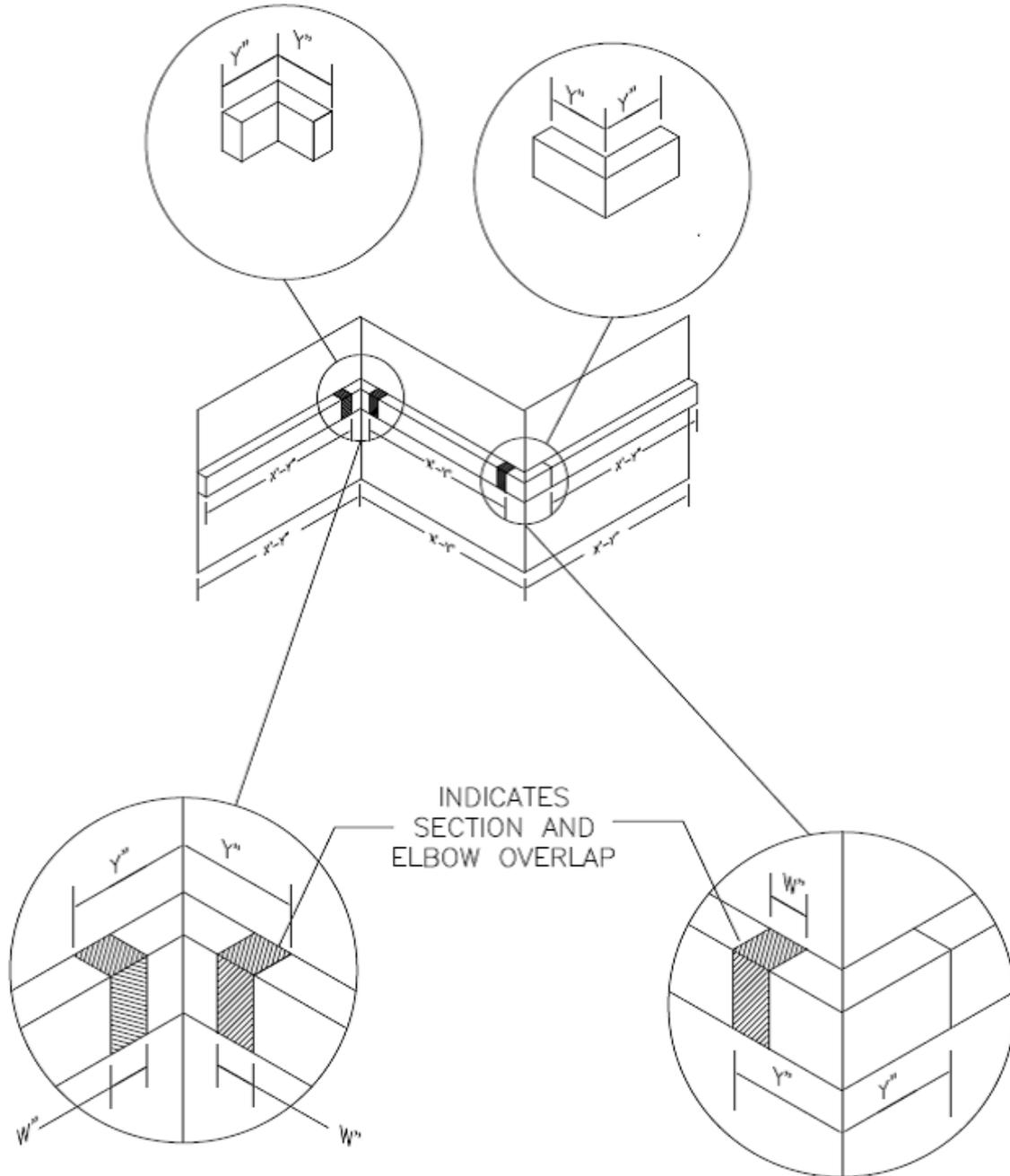
Situations will arise in the field where the lengths of the backplane do not meet the dimensions on a layout drawing. As an example a backplane section may end up too close to an interior or exterior corner of a room.

*Minimum of 8" (203.2mm)



FIELD CUTTING: ELBOWS (cont'd)

In order for the sections to fit, it will be necessary to adjust the length(s) of the interior or exterior elbow piece. The elbow pieces were designed with this situation in mind and thus can be field modified (cut) to connect the backplane sections together seamlessly.



FIELD CUTTING: END FEEDS

In another situation, a simple straight run of STARLINE Plug-In Raceway powered by an end feed may need to be adjusted to fit onto a wall. The end feed can be modified so the run will fit onto the wall and maximize the plug-in space.

