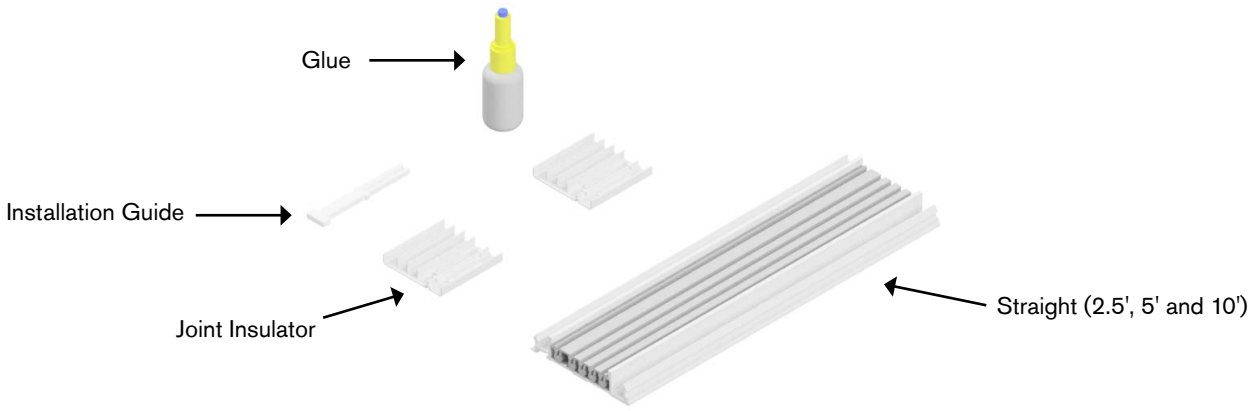
RESIZE: FIELD CUTTING INSTRUCTIONS

Resize Cutting (for continuing 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.

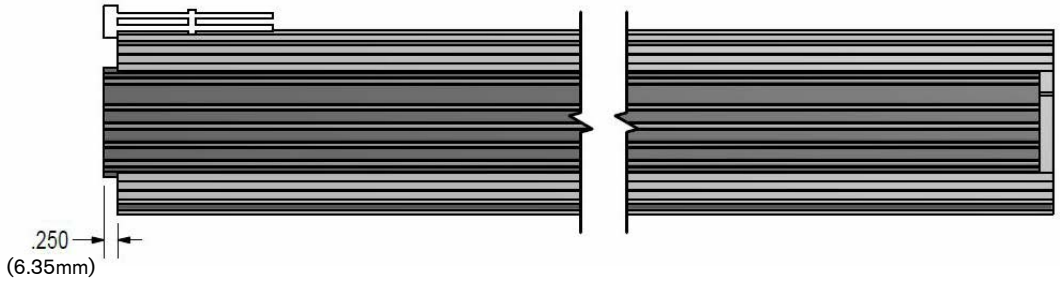
When Plug-In Raceway is cut in the field, care must be taken to ensure that the field cut ends are insulated. This is essential for maintaining proper clearances for live electrical parts and safe operation of the system.

To order a resize field cutting kit, please see pg. 4.4 for product number
Parts Included: Straight, insulator/conductor, joint insulator (2), super glue, installation guide



Step 1. Cut straight, insulator and copper to your desired length.

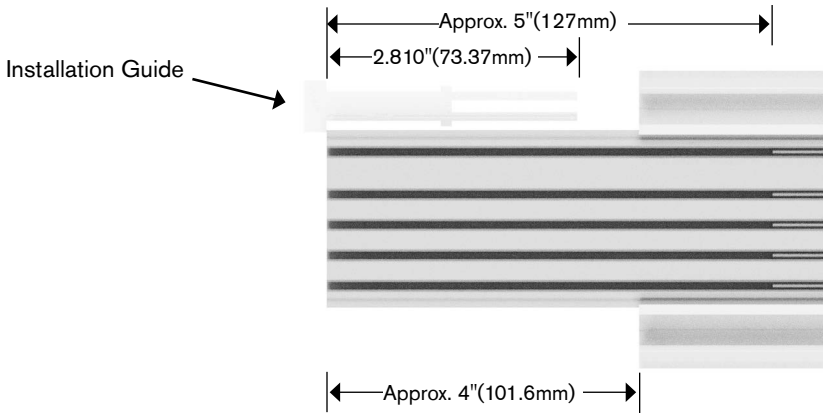
Step 2. Push the insulator/conductor .250" (6.35mm) out of the backplane and then cut. (The end of the supplied tool is .250" (6.35mm) long).



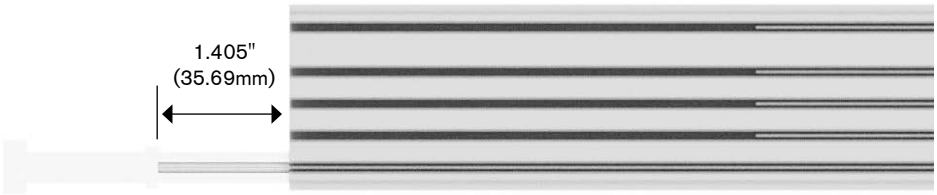
RESIZE: FIELD CUTTING INSTRUCTIONS (cont'd)

Step 3. Slide the insulator/conductor out of the housing about 4". Using a flat tip screw driver, push the copper conductors back about 5 inches (127mm).

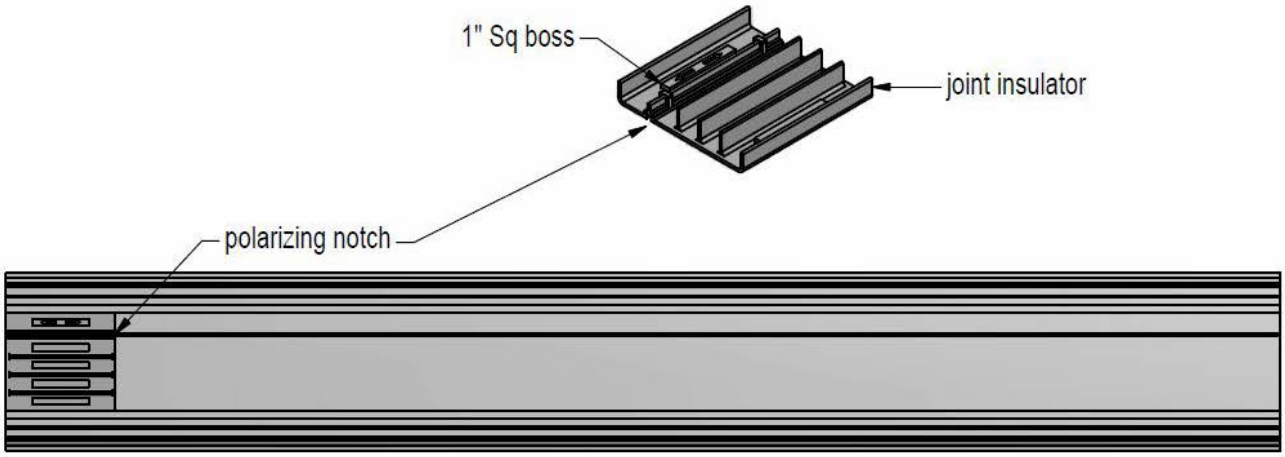
Step 4. Once the copper is recessed, cut 2.810" (71.37mm) off the insulator. Then push the conductors back so that 1.405" -.000/+.063 (35.69mm -.000/+1.6) extends past the insulator on both sides. Check with install guide.



Step 5. Copper adjustment. Using the provided guide, slide the copper back into position. The field tool will properly align the copper in the insulator as shown below. Repeat until all conductors are in position.

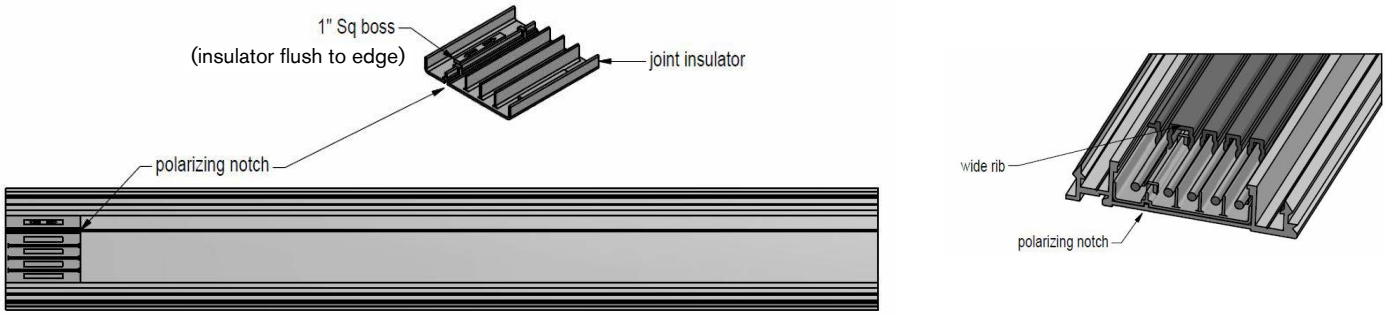


Step 6. Install the joint insulator by super gluing it to one end of the backplane. Let it dry. (The housing should have nothing protruding.) Be aware of the polarizing notch on the backplane and the joint insulator.

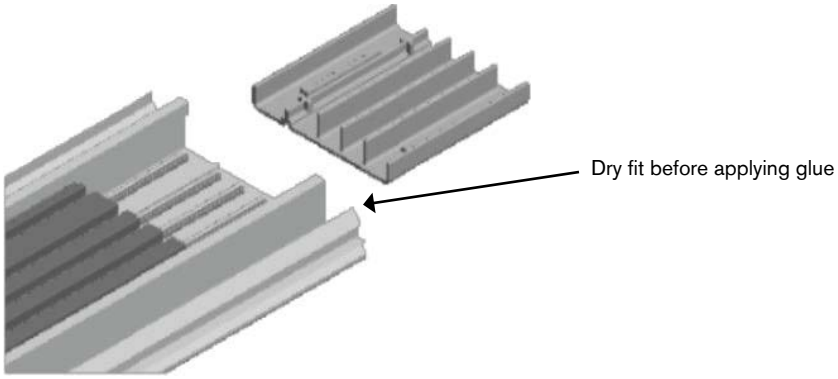


RESIZE: FIELD CUTTING INSTRUCTIONS (cont'd)

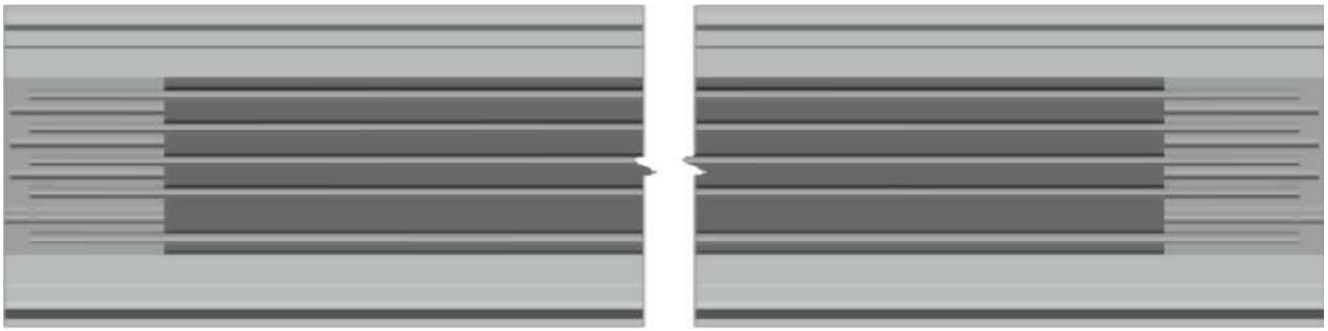
Step 7. Now the insulator/conductor can be slid into the backplane until it is flush with the 1" square boss on the installed joint insulator. Insulator will butt up against boss. *Be sure to match the insulators wide rib up with the polarizing notch.*



Step 8. Dry fit the other joint insulator, make sure that it slides under the insulator. (It should be flush with the end of the backplane housing.) Now remove the joint insulator, apply glue and reinsert it back on the backplane. Let it dry.



The resize is complete.
Below is an example of a finished resized straight.



RESIZE CUTTING KITS: PRODUCT NUMBERS

U	RP	S	020	-	4	H	-	0206	-	KIT
1. System	2. Product Line	3. Product Type	4. Product Frame		5. Poles	6. Ground Busbar		7. Straight Length		8. Kit

1. System *(standard of measure)*

U	U.S.	**M**	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	**060**	60 amps (63 amps IEC)

5. Poles *(number of poles(including neutral))*

4	4 poles

6. Ground Busbar *(type of ground busbar)*

H	Housing Ground	**G**	Isolated/Dedicated Ground

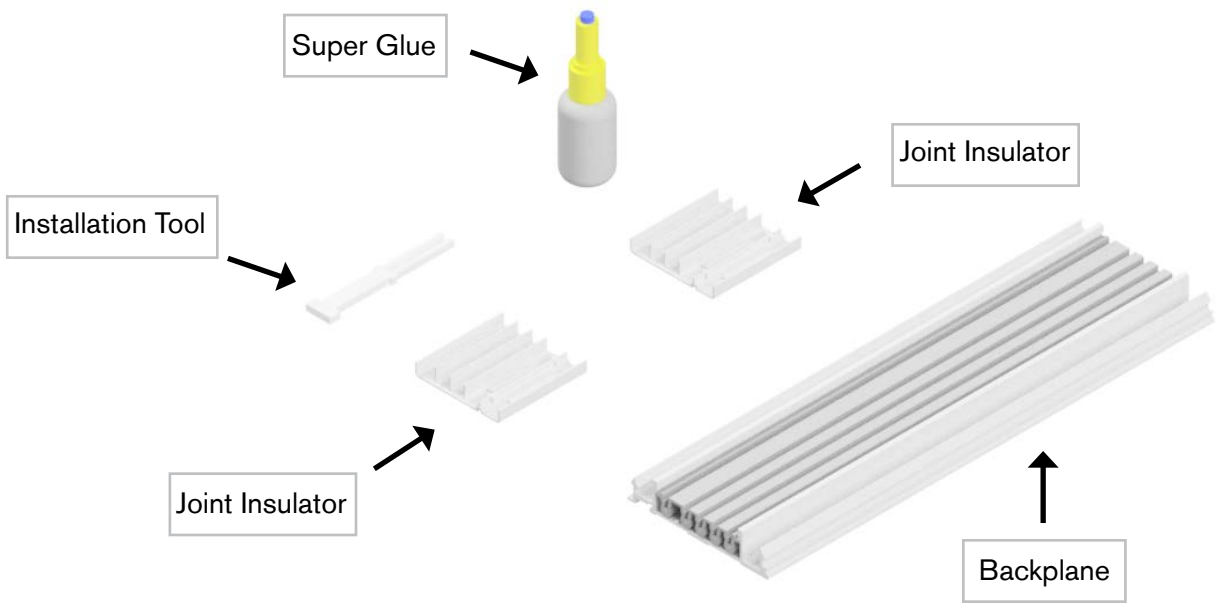
7. Straight Length *(length of section)*

0206	2 ft. 6 in. *(for U.S.)*	**M100**	1 meter *(for Metric)*
0500	5 ft. *(for U.S.)*	**M200**	2 meters *(for Metric)*
1000	10 ft. *(for U.S.)*	**M300**	3 meters *(for Metric)*

8. Kit *(signifies a resize field cutting kit)*

KIT	Resize Kit

Examples:
URDS020-4H-0500-KIT *= U.S., Raceway Dual, Straight, 20 amps- 4 poles, Housing ground- 5 feet long- Resize Kit*
MRPS060-4G-M100-KIT *= Metric, Raceway Power, Straight, 60 amps- 4 poles, Isolated/Dedicated ground- 1 meter long- Resize Kit*

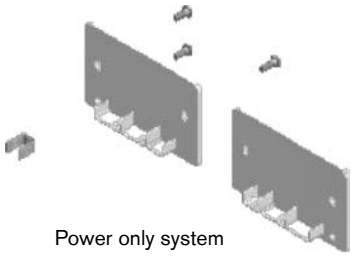


FLUSH: FIELD CUTTING INSTRUCTIONS

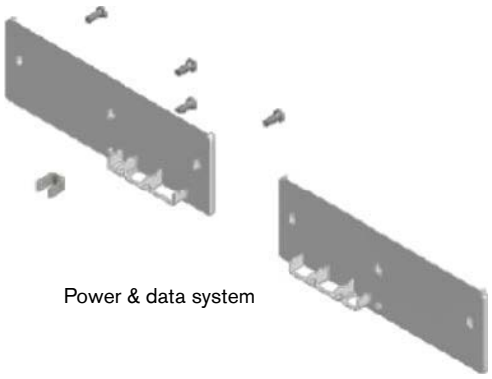
Flush Cutting (for ending a run of Plug-In Raceway)

When Plug-In Raceway is cut 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 a flush field cutting kit, please see pg. 4.6 for product number
Parts Included: End Cap, plastic (set), end cap clip, screws

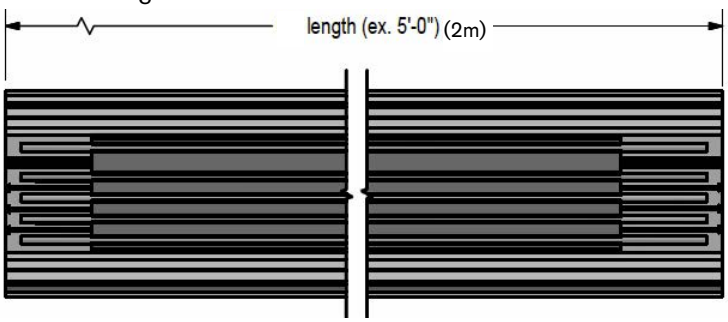


Power only system

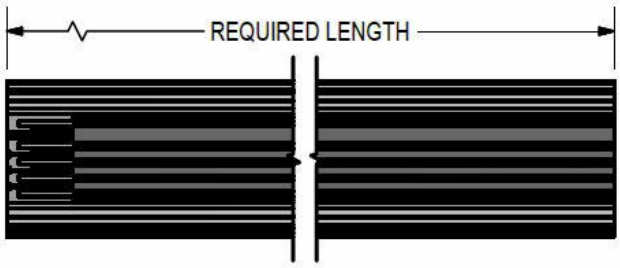


Power & data system

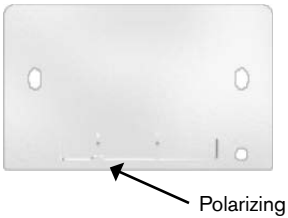
Step 1. Measure housing/insulator to desired length.



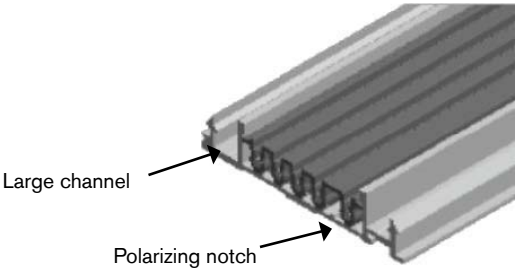
Step 2. Cut the housing/insulator to required length. ***(Be sure to clean all parts of metal and plastic shavings after cuts.)***



Step 3. To attach the plastic end cap, install the end cap clip into large channel. Be sure to insert under the insulator. The end cap is polarized. Cover with metal end cap and install the provided screws.



Polarizing notch



FLUSH CUTTING KITS: PRODUCT NUMBERS

S	RP	S	020	-	FIELD FLUSH CUT KIT	-	SIL
1. System	2. Product Line	3. Product Type	4. Product Frame		5. Kit		6. Color

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

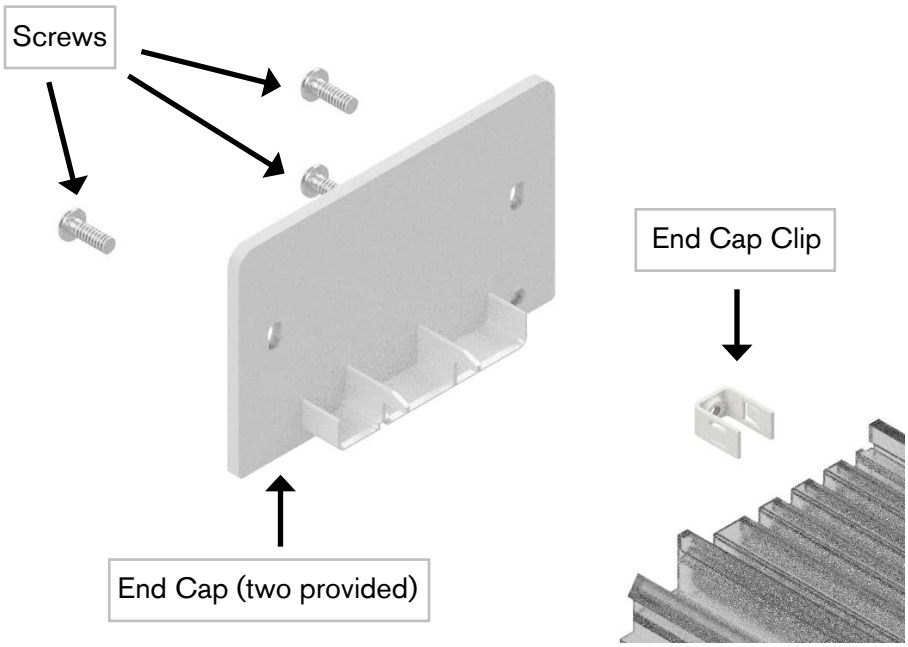
3. Product Type *(section component)*
S Straight

4. Product Frame *(maximum amperage)*
020 20 amps **060** 60 amps (63 amps IEC)

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-SIL *= Standard, Raceway Dual, Straight, 60 amps- Flush Kit- Silver end cap*
SRPS020-FIELD FLUSH CUT KIT-BLK *= Standard, Raceway Power, Straight, 20 amps- Flush Kit- Black end cap*

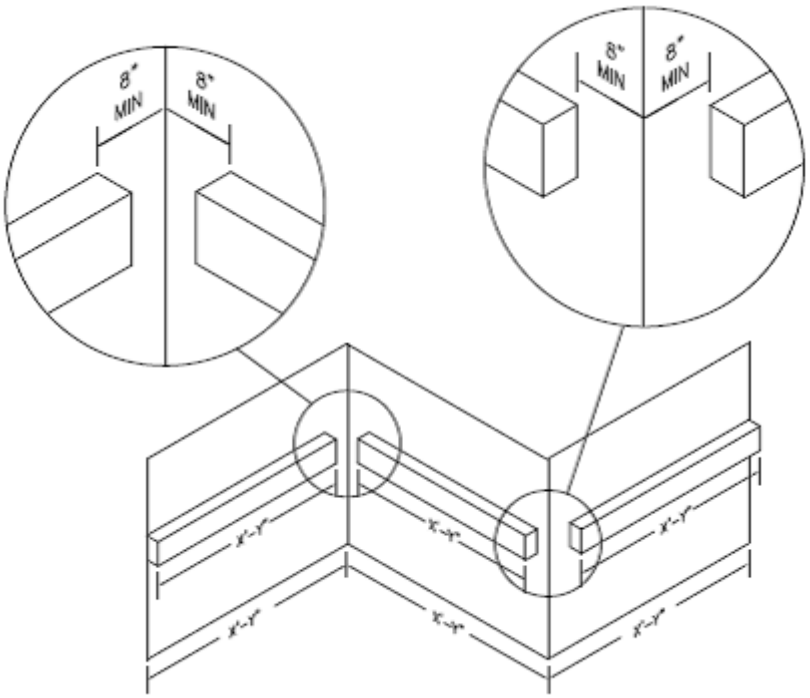


FIELD CUTTING: ELBOWS

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.***

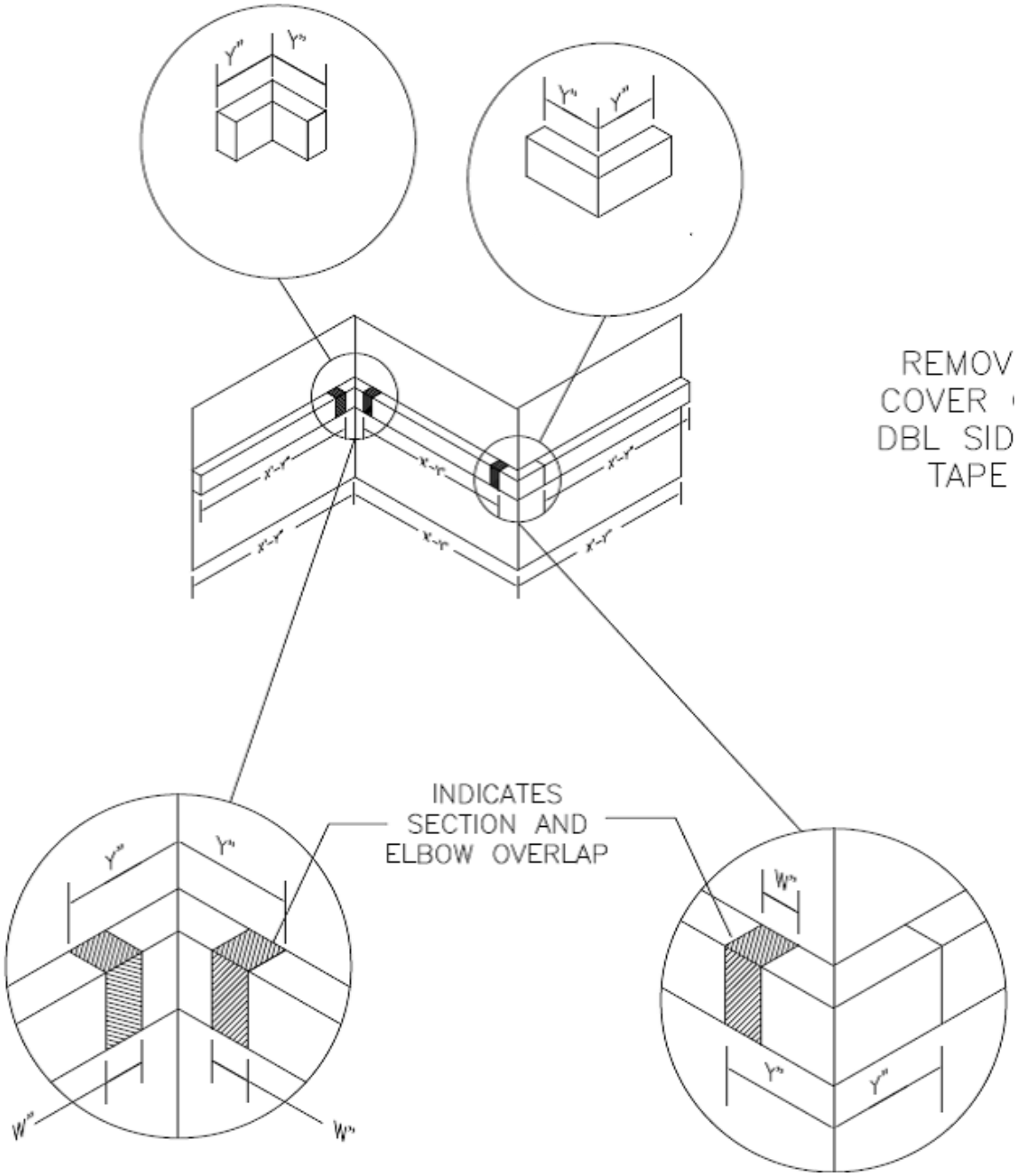
Situations will arise in the field where the lengths of the backplane do not meet the dimensions on a layout drawing. As an example a backplane section may end up too close to an interior or exterior corner of a room.

*Minimum of 8" (203.2mm)



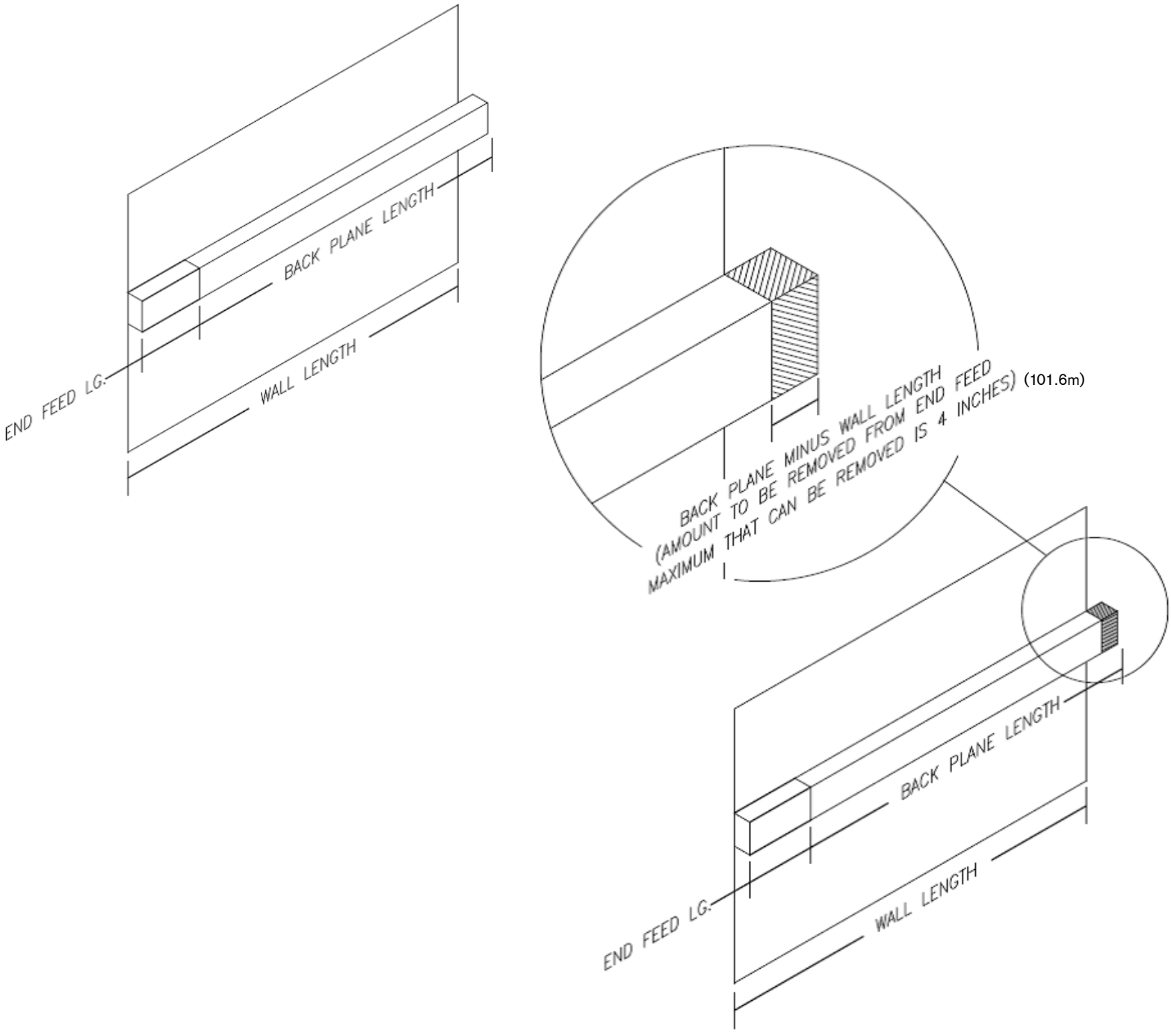
FIELD CUTTING: ELBOWS (cont'd)

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.



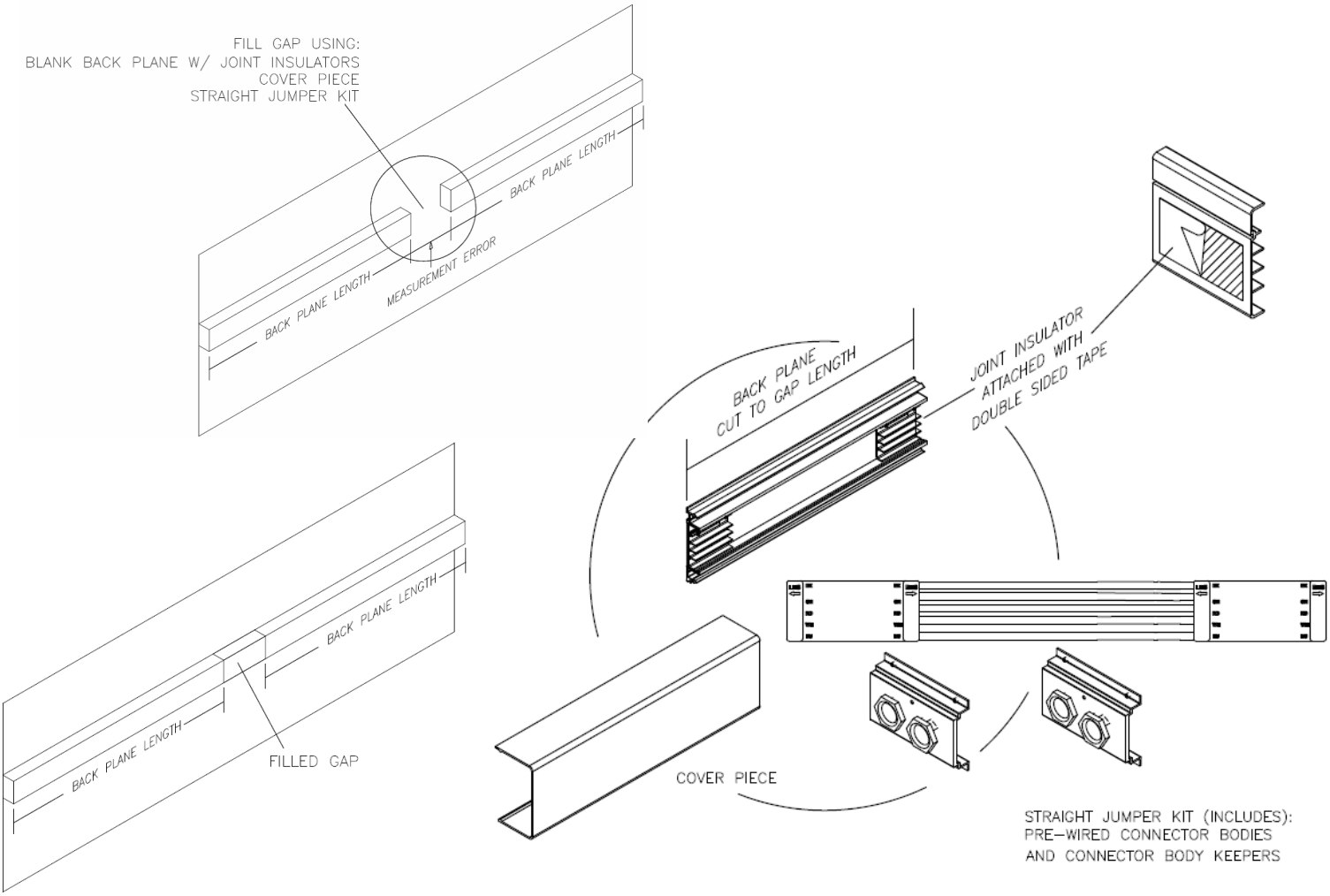
FIELD CUTTING: END FEEDS

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.



FIELD CUTTING: STRAIGHT JUMPER

As a final example of the field cutting flexibility of STARLINE Plug-In Raceway, a situation may arise where two runs of backplanes do not meet as intended in the middle of a wall. In this case a straight jumper section can be used to tie the two runs together. NOTE: Plug-in space will be lost in the section of the straight jumper and the gap distance must be 6" (152.4mm) or larger.



The straight jumper kits (and the elbow sections) include all the necessary parts to jump between the two backplanes. Installation of the straight jumper is similar to how the field modified elbows are installed.