



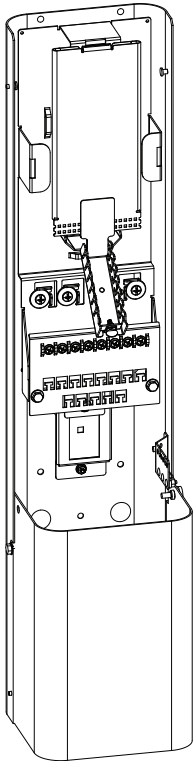
Broadband Fiber Splicing Installation Instructions

Part Number(s): HUB-8-FSTH, HUB-10-FSTH, HUB-8-E, HUB-10-E,
HUB-10-MB-FSTH, HUB-S32, HUB-S42

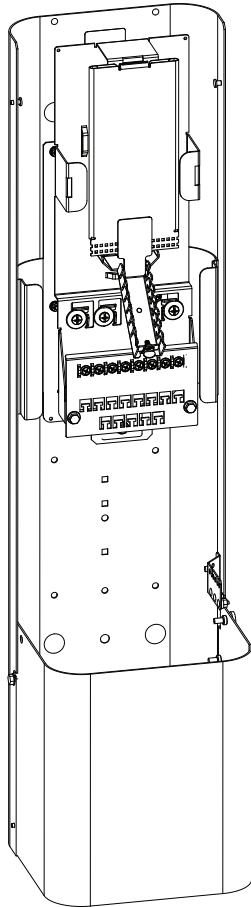
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INSTALLATION INSTRUCTIONS

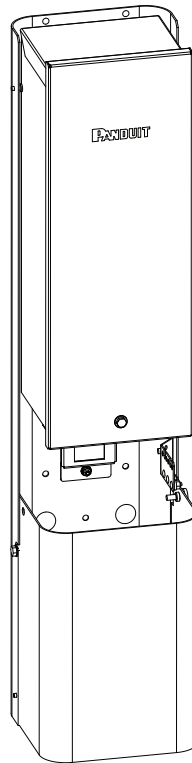
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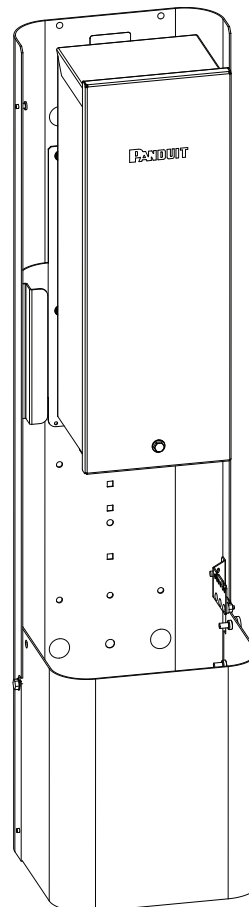
HUB-8-FSTH
(Open Frame
Splicing)



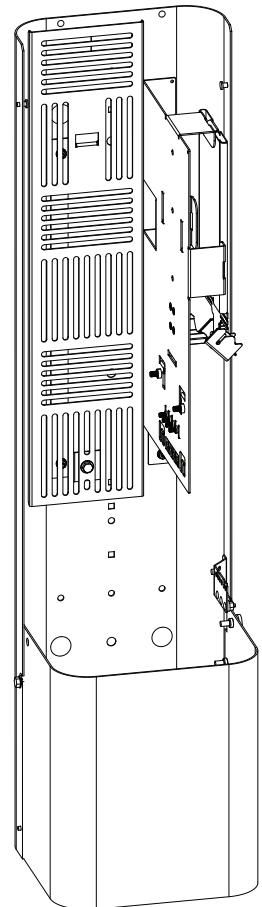
HUB-10-FSTH
(Open Frame
Splicing)



HUB-8-E
(Pedestal sold
separately)



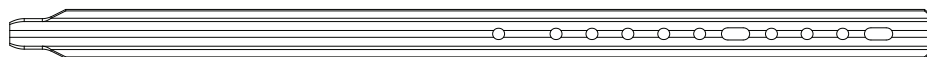
HUB-10-E
(Pedestal sold
separately)



HUB-10-MB-FSTH
(MST Bracket &
Splice Holder)



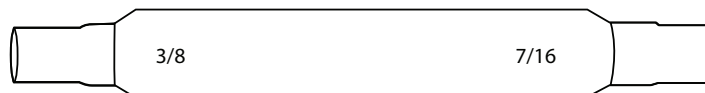
HUB-S42



HUB-S32

Tools Required

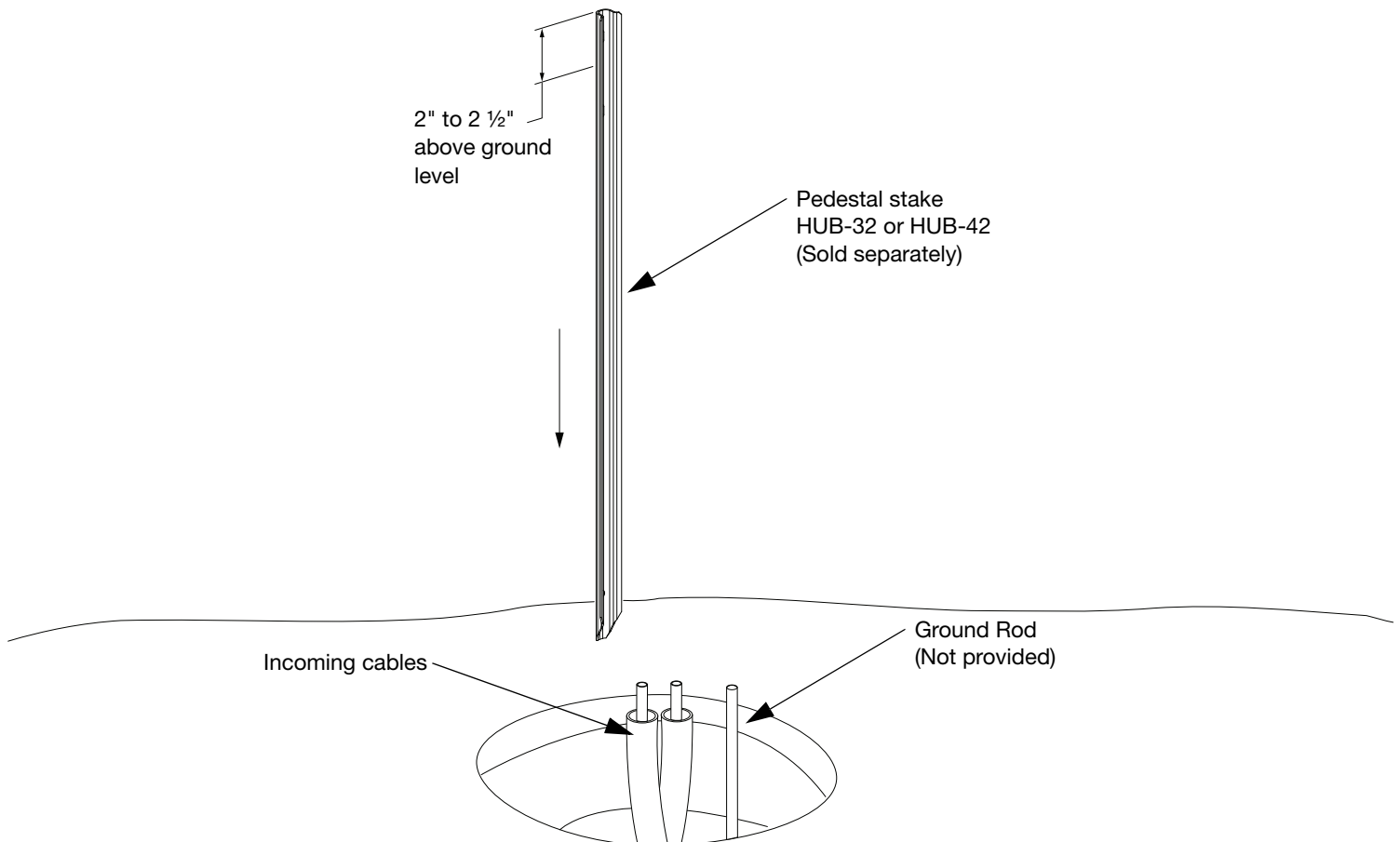
216-type tool
or 3/8" & 7/16"
nut drivers



For Technical Support: www.panduit.com

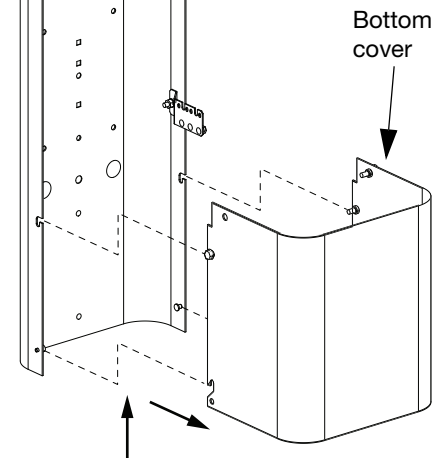
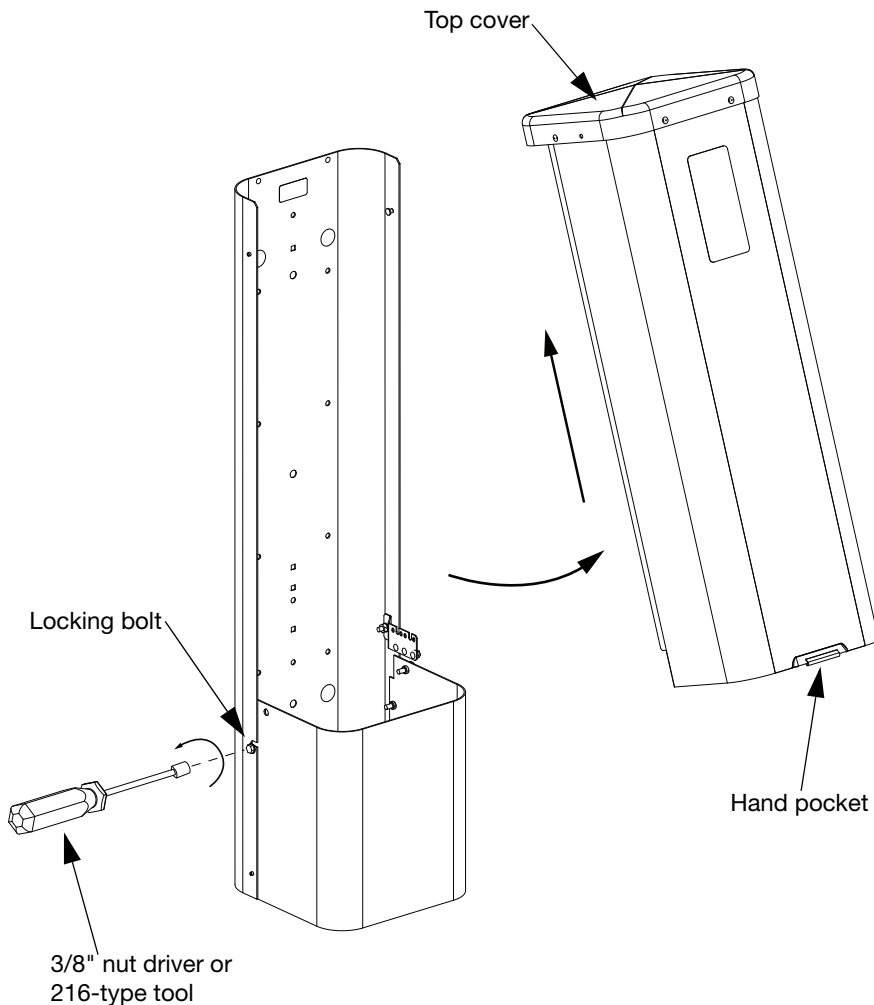
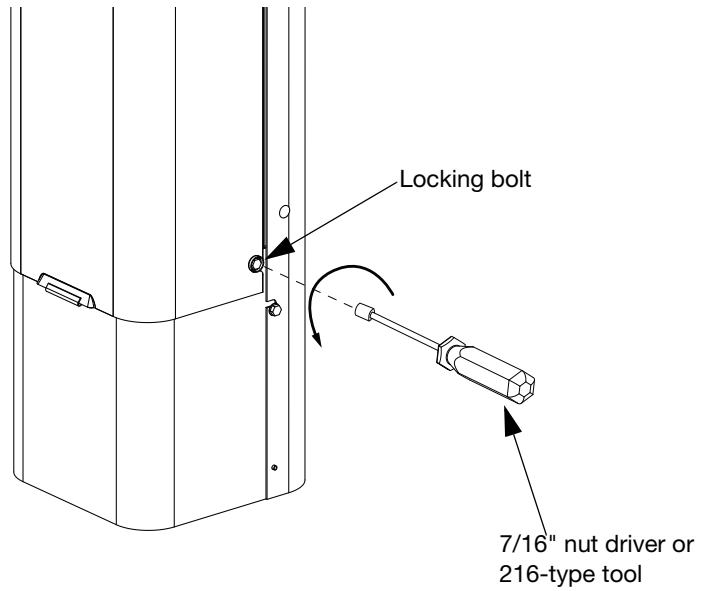
Pedestal Stake Install (sold separately)

1. Dig 10" deep hole 2" wider than pedestal base around incoming cables.
2. Install Ground Rod per local codes. (not provided).
3. Position pedestal stake in the back of the hole so the pedestal will surround the incoming cables and ground rod.
4. Drive the pedestal stake into the ground until only 2" - 2½" are above ground level.



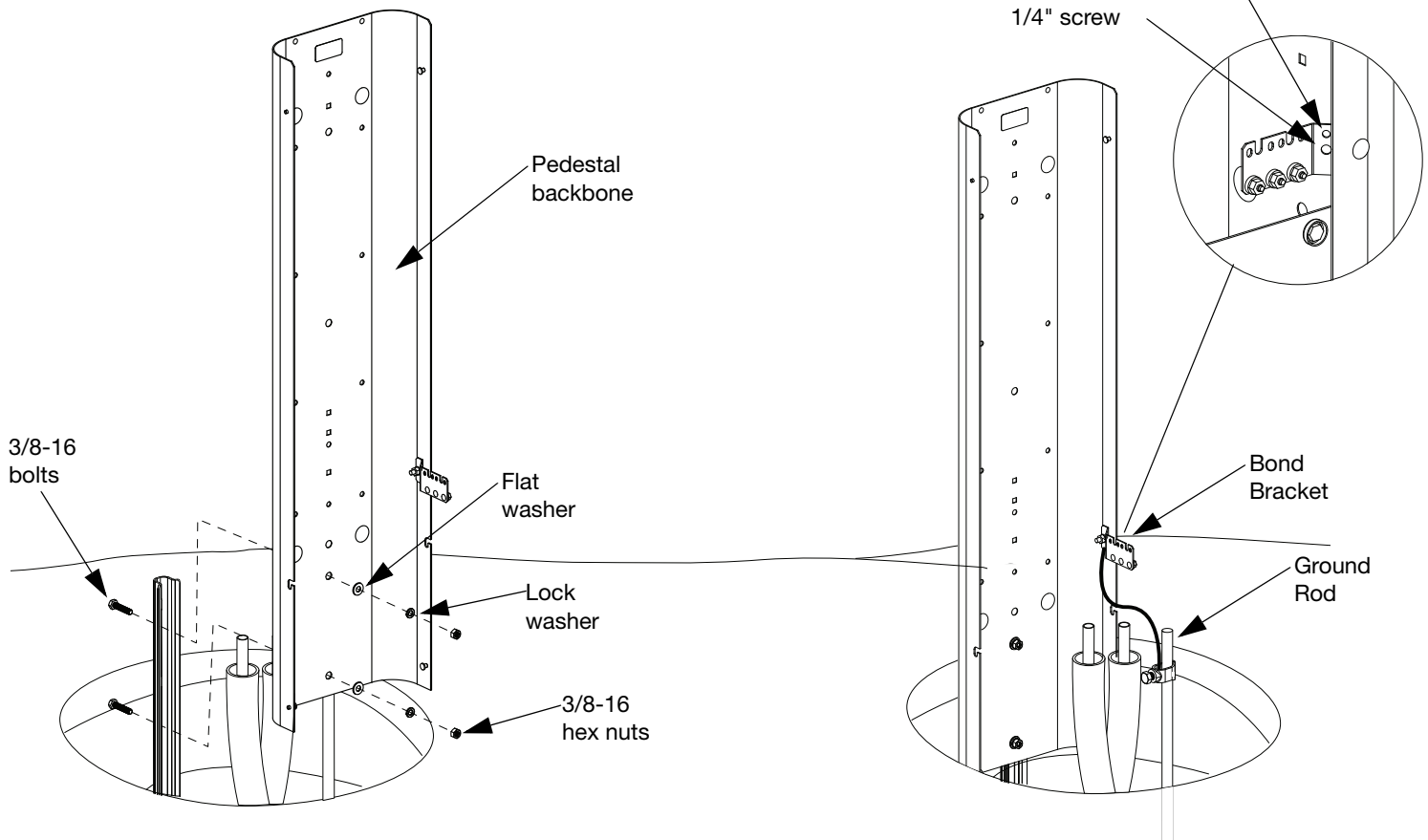
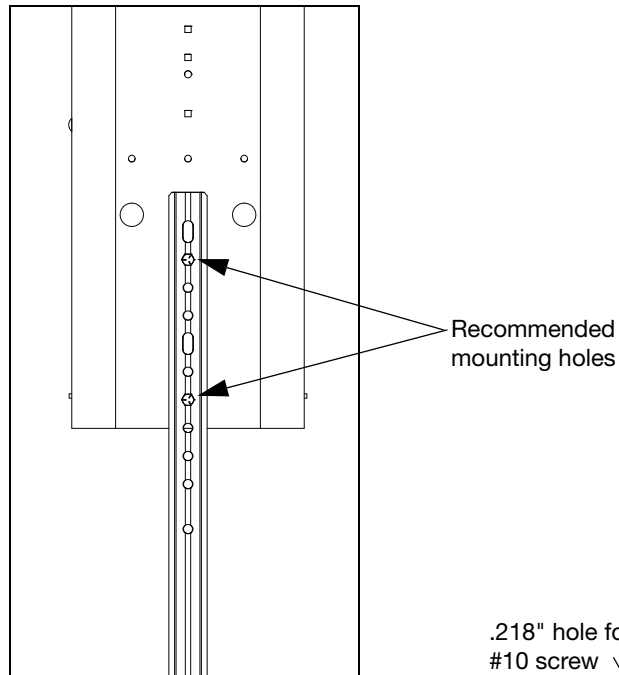
Pedestal disassembly

1. To remove Top cover loosen the locking bolt using 7/16" nut driver or 216-type tool.
2. Use the hand pocket on the bottom of the top cover to lift the cover up and off.
3. To remove the bottom cover, use a 3/8" nut driver or 216-type tool to loosen the locking bolts on both sides. Lift the cover up and out.



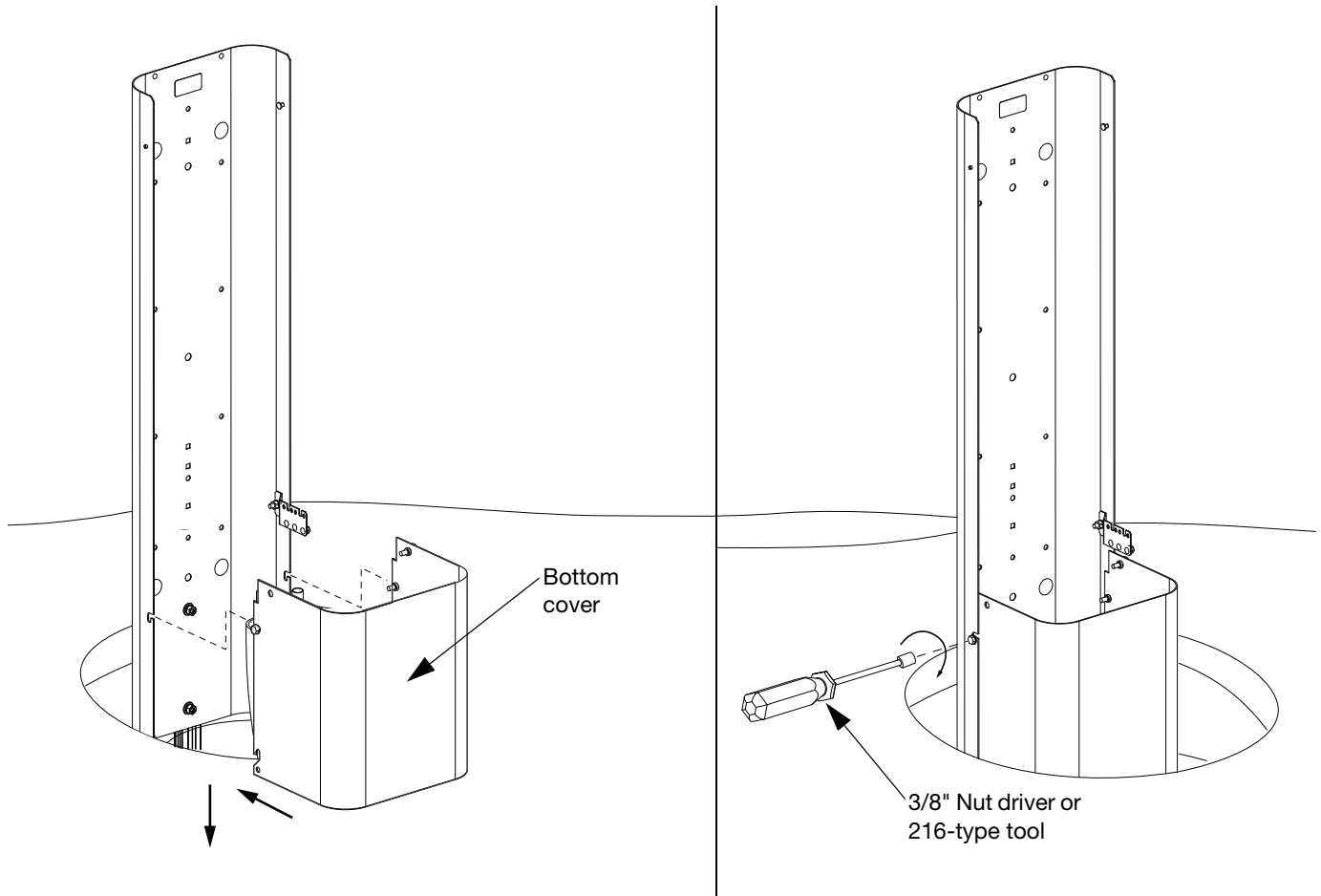
Pedestal Backbone Install

1. Align Pedestal backbone with Stake so that approximately 8" of Pedestal backbone is below ground level.
2. Attach Pedestal backbone to Stake using included hardware.
3. Prepare cables, and perform all remaining bonding and grounding procedures.
4. If a ground rod is required, mount a Panduit ML4T-CY lug (sold separately) to 1/4" hole on the angled portion of the grounding bar using stainless steel hardware (not provided). Attach a Panduit GRC2-58-TL ground rod clamp (for 5/8" ground rod, sold separately) to the ground rod. Connect the grounding lug to the ground rod clamp with a 6 AWG conductor (not provided).



Pedestal Bottom Cover Install

1. Reassemble the bottom cover.
2. Ensure that the cover is in the lowest position by fully seating the bolts on the cover into the slots on the Pedestal backbone.
3. Tighten all bolts securely using 3/8" nut driver or 216-type tool.
4. Backfill space around pedestal with soil. The top 4" of the Bottom cover should be above ground.
5. Pour gravel inside pedestal to ground level.
6. Finalize all necessary splicing.



Splice Enclosure Mounting Bracket installation

1. Install the enclosure mounting bracket on the backbone of the pedestal. Insert a carriage bolt through the back of the pedestal backbone and mounting bracket. Fasten a flange nut on the carriage bolt using a 3/8" nut driver or 216-type tool.

Note:

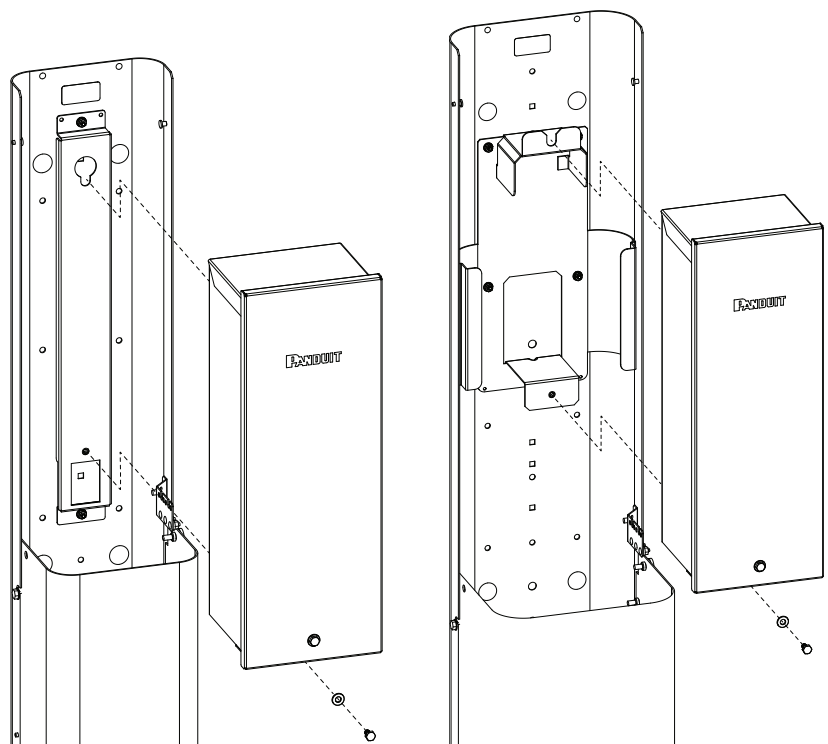
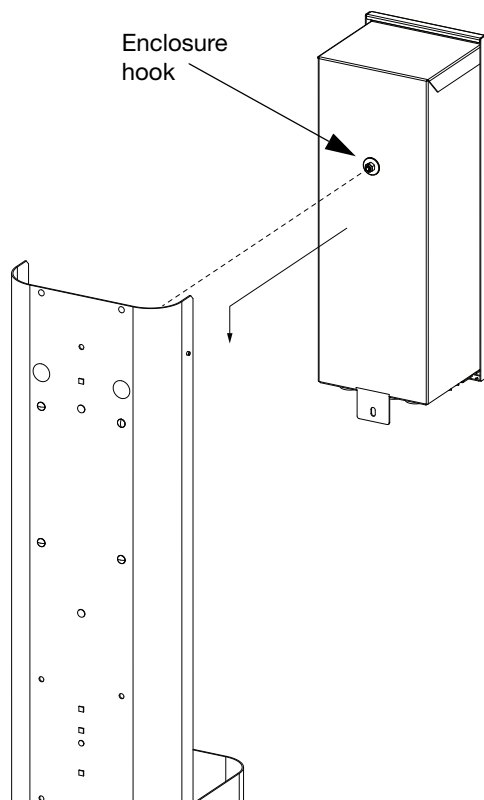
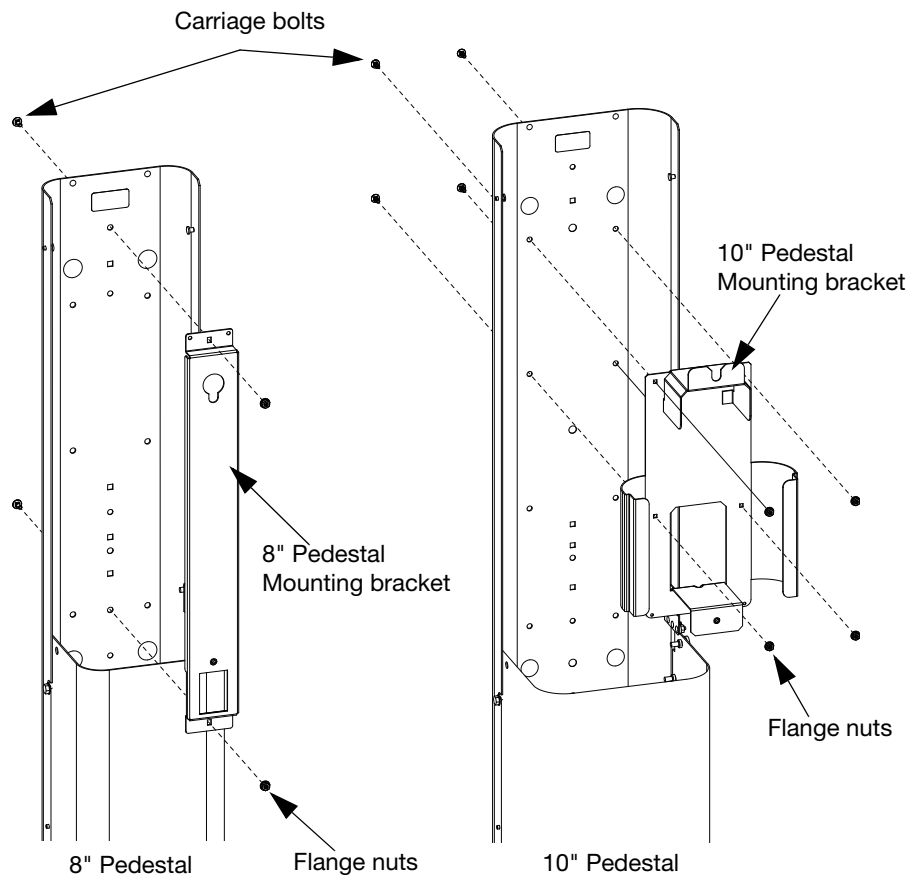
For an 8" pedestal, install the mounting bracket using the upper most centered hole on the backbone, and corresponding lower mounting hole.

For a 10" pedestal, install the mounting bracket using the upper most holes that align with the mounting bracket holes.

2. Using the hook on the back of the enclosure, attach the enclosure to the mounting bracket and secure it at the bottom with the provided hardware using a 216-type tool.

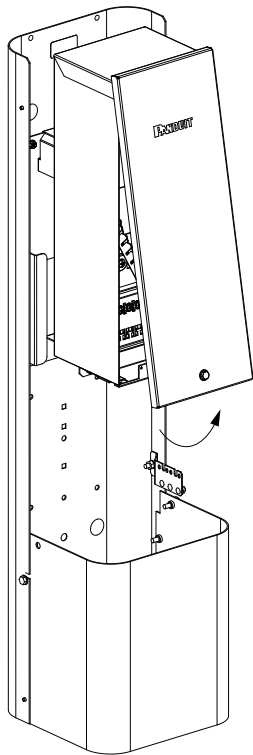
Note:

When using the 10" mounting bracket, the enclosure may be removed so that the cable installation and splicing may occur at a remote location.

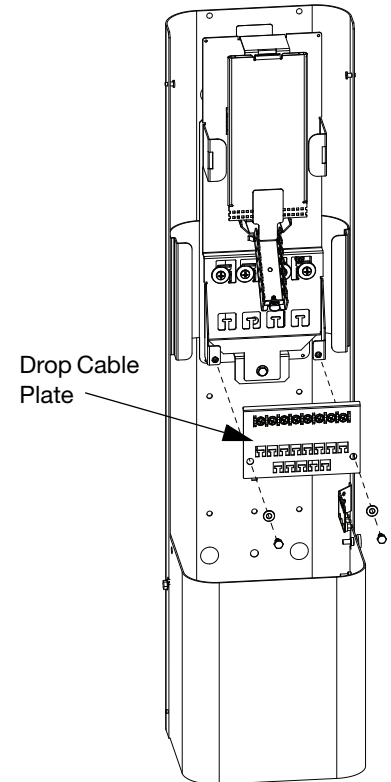
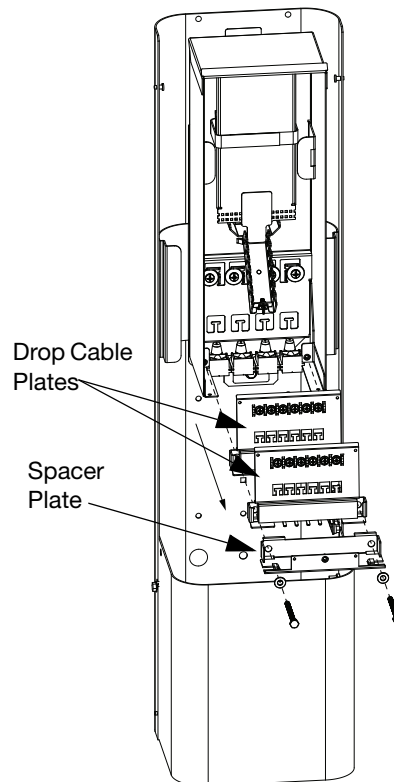


Enclosure prep.

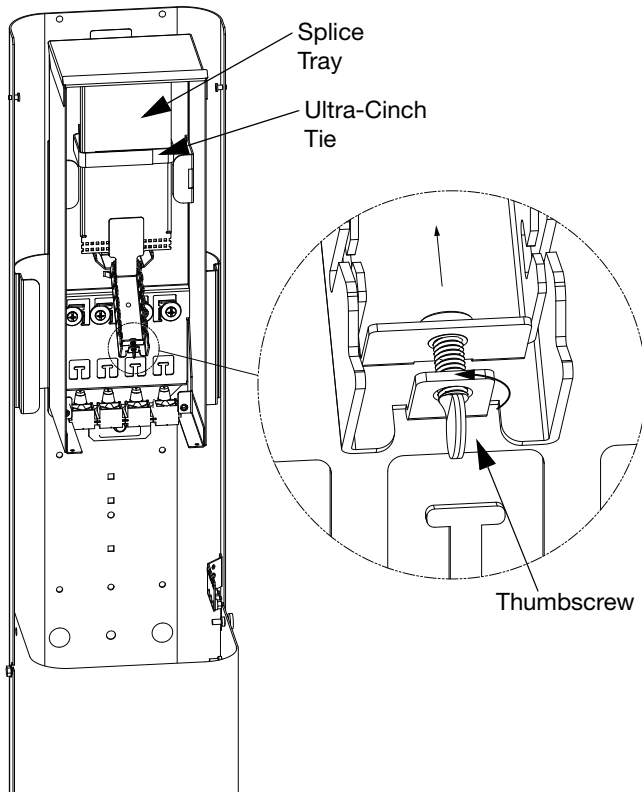
3. Remove the cover by un-screwing the hex nut using a 7/16" nut driver or 216-type tool.



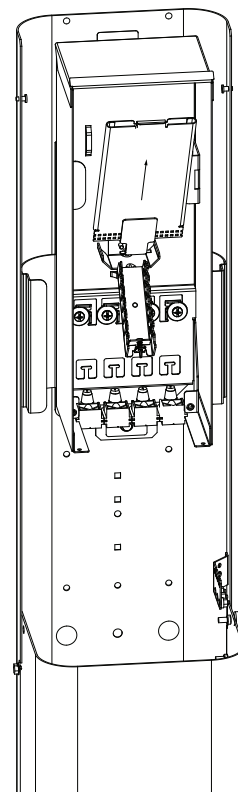
4. Use a 7/16" nut driver or 216-type tool to remove the spacer plate and drop cable plates. Note: For open frame splicing, there is no spacer plate.



5. Unlock the Splice Tray by loosening the thumbscrew until you can slide the lock back and lift the tray upward. Do not fully remove the thumb screw.

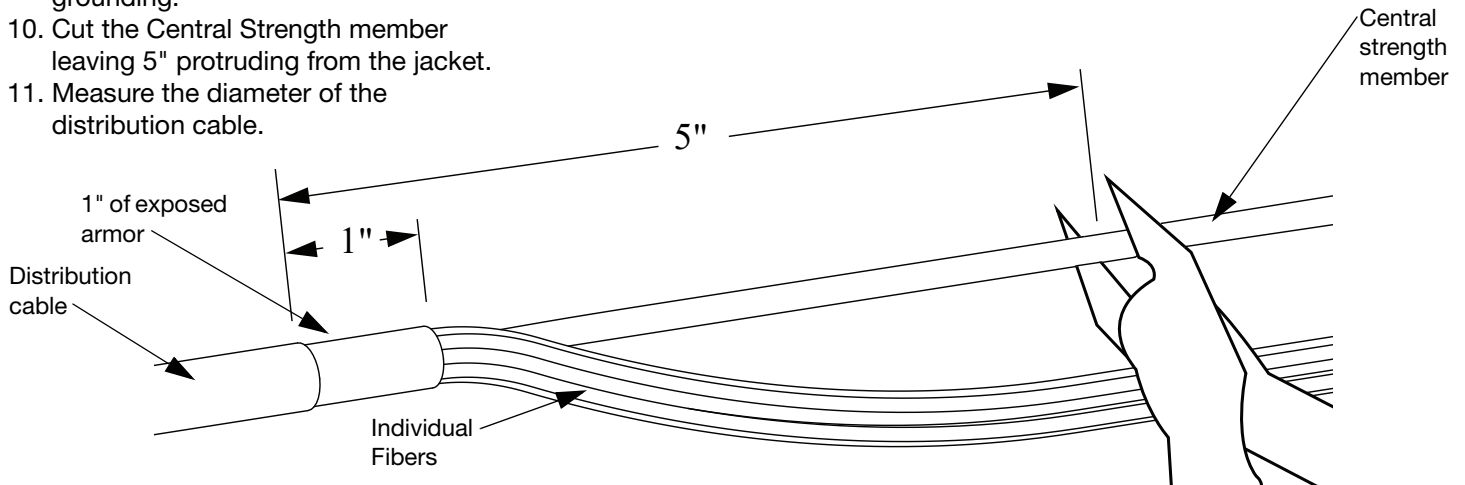


6. Unstrap the Ultra-Cinch Tie and remove the Splice Tray.



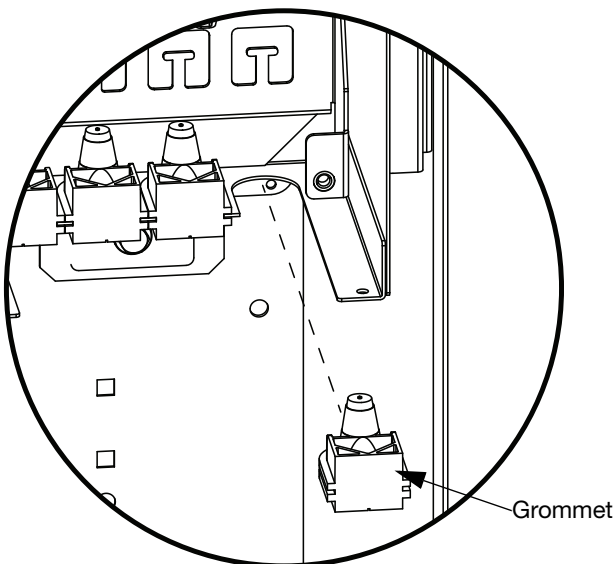
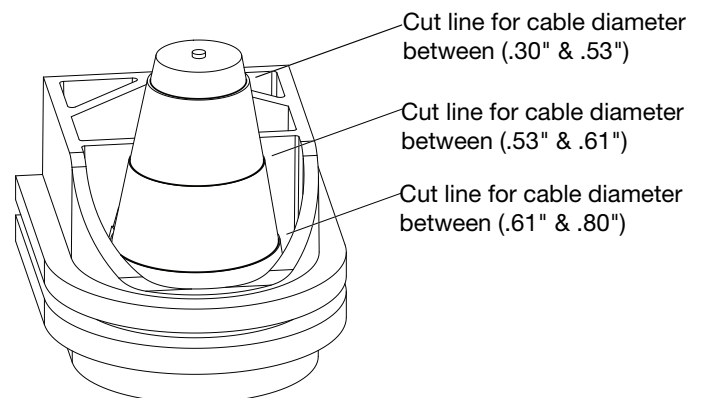
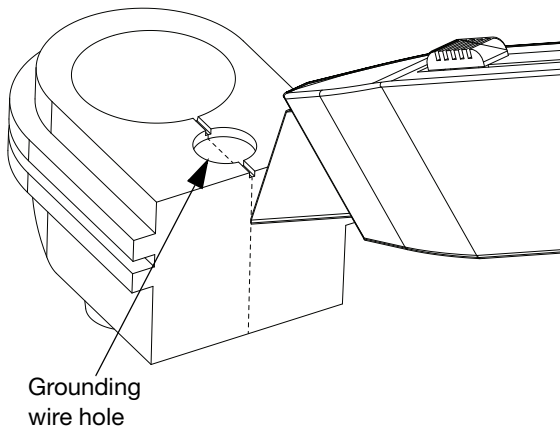
Cable prep

7. Remove 12' of cable jacket for mid-span access or 6' of cable jacket for end-span access.
8. Separate the Fibers from the central strength member.
9. For armored cable remove 1" of the jacket to expose the armor for grounding.
10. Cut the Central Strength member leaving 5" protruding from the jacket.
11. Measure the diameter of the distribution cable.



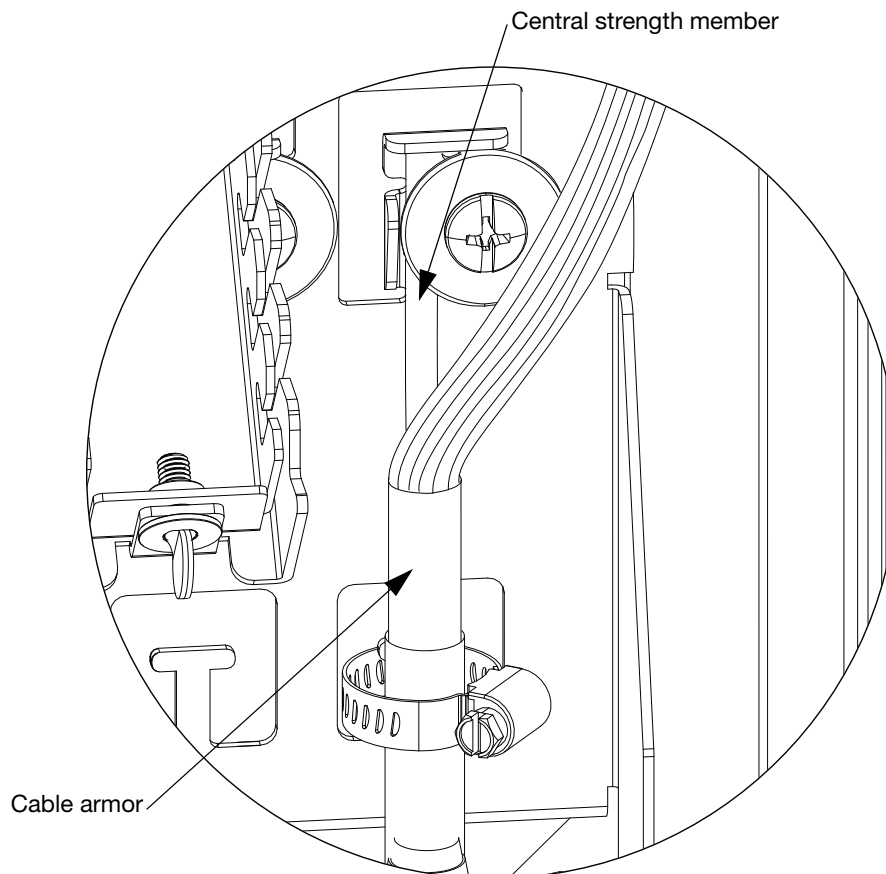
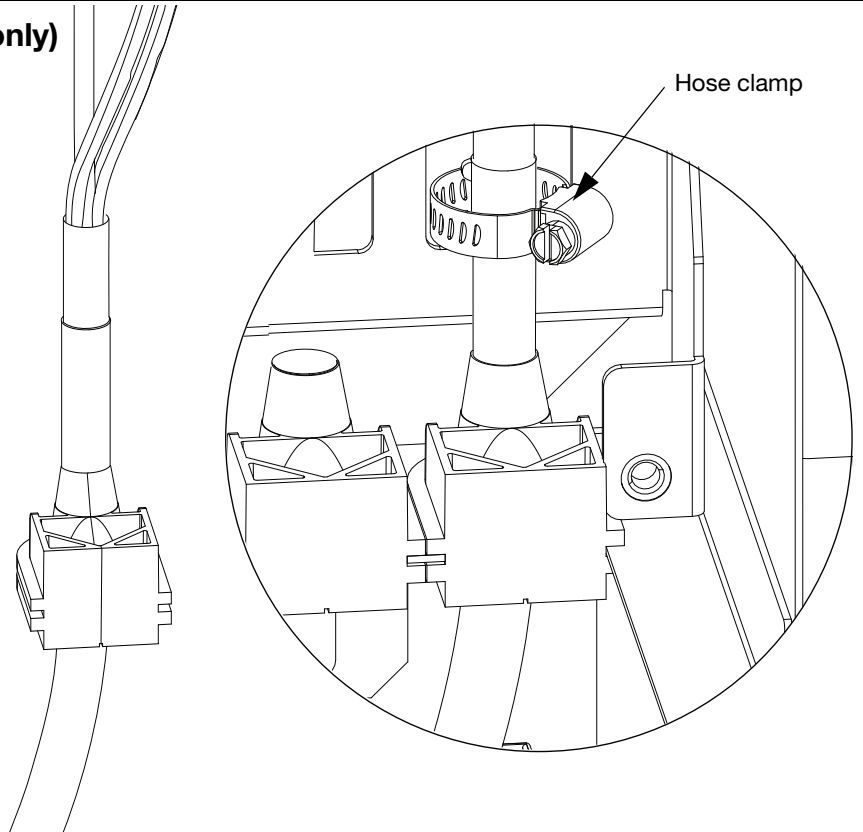
Grommet prep. (For enclosure splicing only)

11. Remove a grommet from the splice enclosure and cut it down the middle from the center of the cone towards the grounding wire hole.
12. Cut the cone to the desired height based on the diameter of the distribution cable jacket diameter.
13. Cut out the grounding wire hole only when installing armored cable grounding wire.

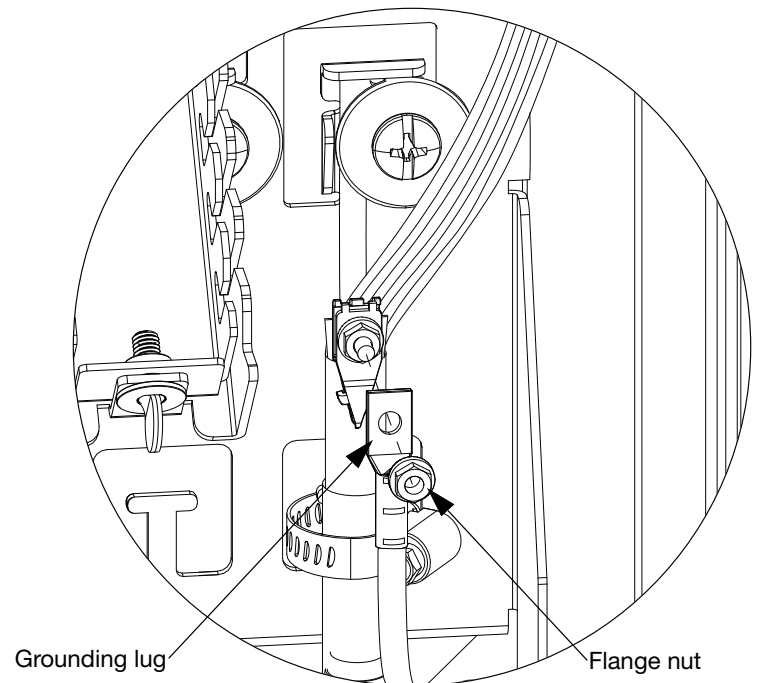
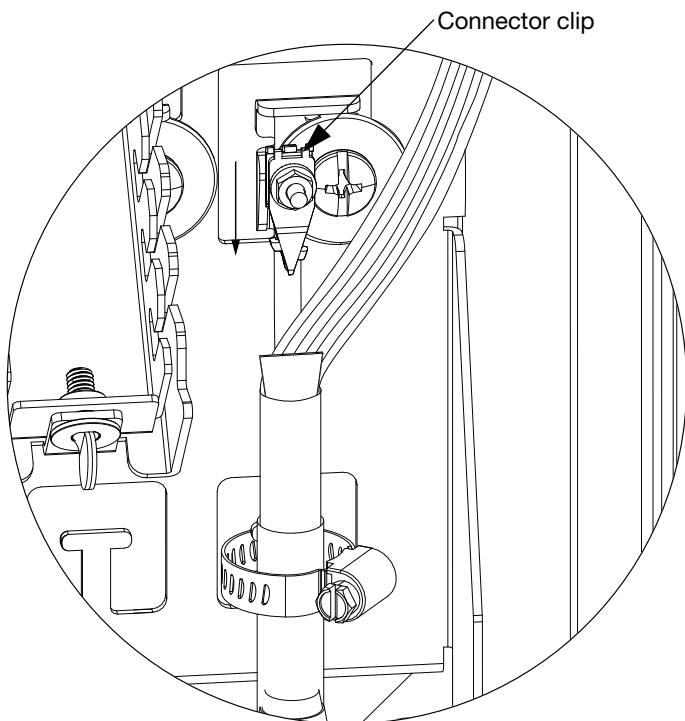
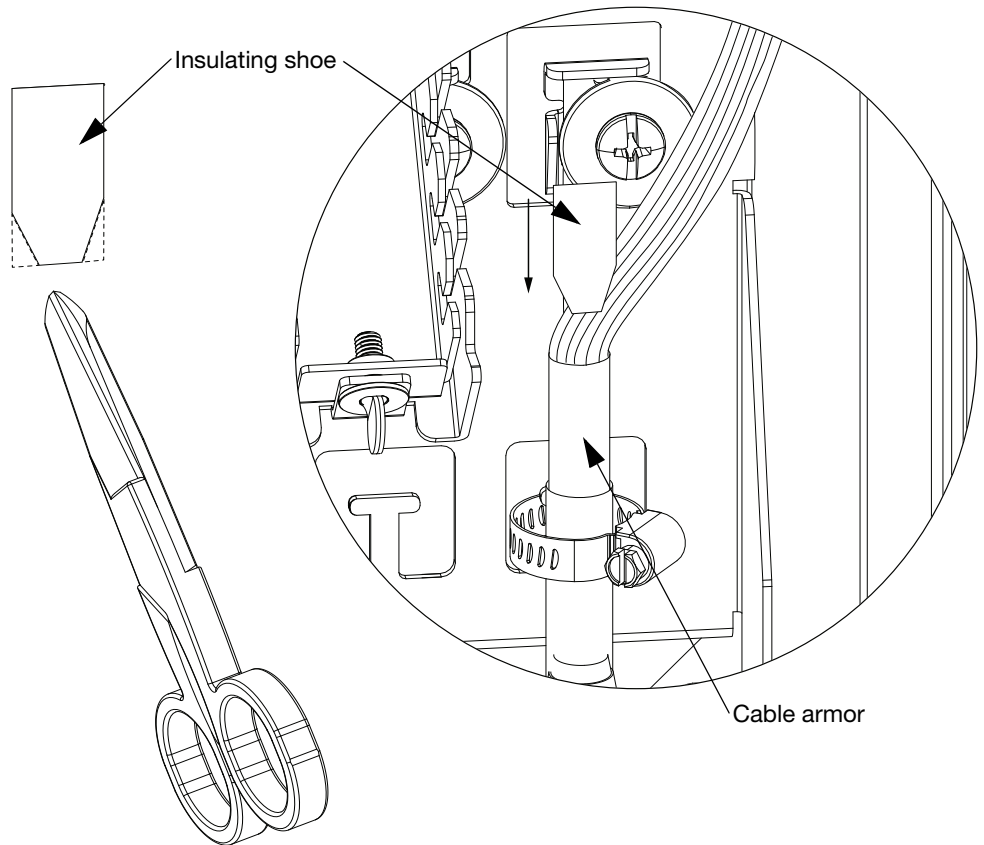


Grommet Install (For enclosure splicing only)

14. Insert the grommet around the cable and reinstall the grommet into the splice enclosure.
15. Clamp the distribution cable over the cable outer jacket at the hose clamp location.
16. Trim the central strength member and secure it under the clamping washer with a #3 Phillips head screw.
17. If a distribution cable is armored, leave 1" inch of exposed armor above the jacket clamping location for grounding.
18. Repeat these steps for all distribution cables being installed.



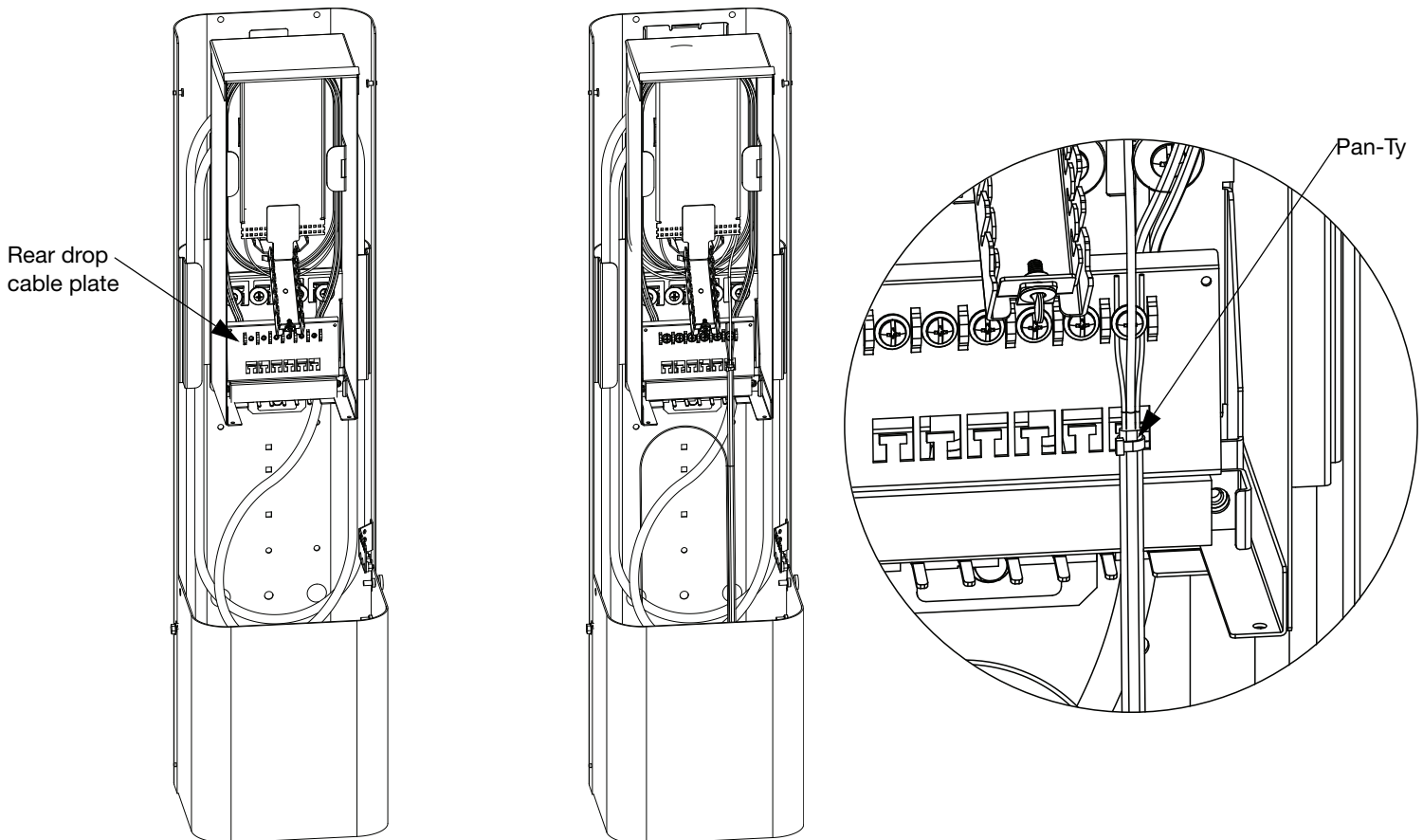
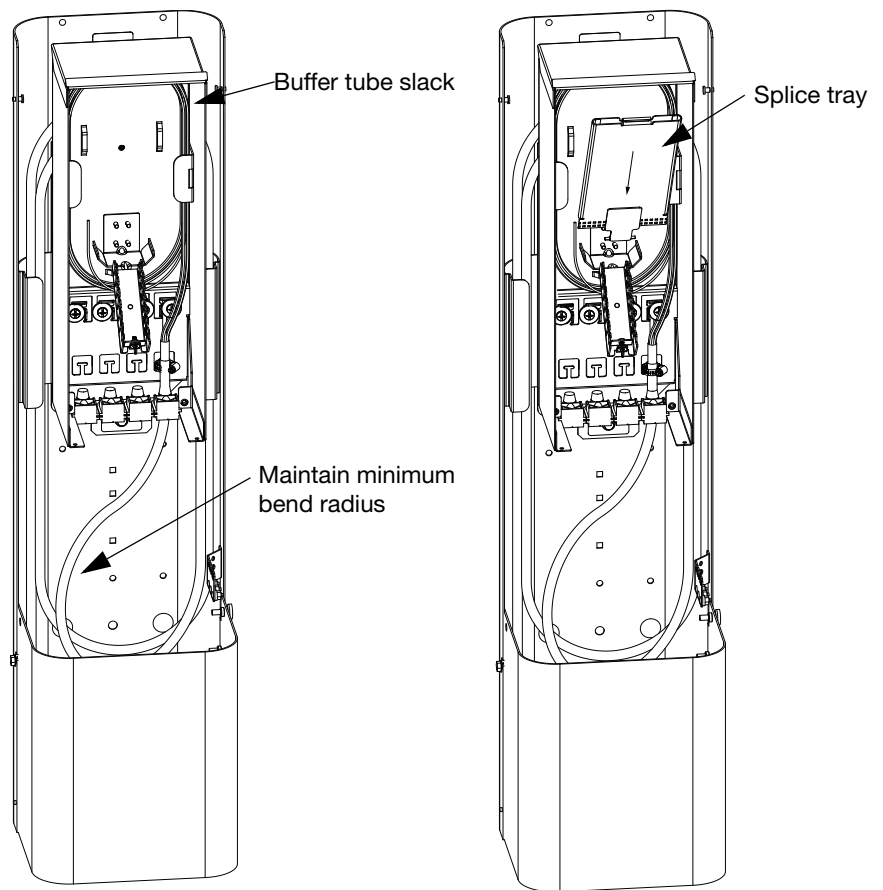
19. Cut the edges of the insulating shoe and install into the cable armor to protect the buffer tubes.
20. Remove one of the flange nuts on the connector clip, and loosen the remaining flange nut.
21. Insert the connector clip into the cable armor making sure one side of the clip is on the inside of the cable and the other side is on the outside of the cable.
22. Tighten the flange nut.
23. Install a grounding lug on the connector clip, reinstall the flange nut and tighten.
24. Route the opposite end of the grounding wire to the grounding terminal on the pedestal and fasten using appropriate hardware.



25. When storing distribution cable slack within the 10" bracket, route the cable in a way to maintain the minimum bend radius requirement of the cable.
26. Store the buffer tube slack with the coil wrapping underneath the splice tray receptacle.
27. Use Tak-Ty to secure the buffer tubes in four locations.
28. Re-install the Splice Tray.
29. Re-install rear drop cable plate.
30. Remove the drop cable jacket exposing 6' of buffer tube. Cut the drop cable strength members 3" past the cable jacket.

Note: If the drop cable has a tone wire, strip the tone wire 7' from the end of the cable prior to cutting the cable jacket. The tone wire will be grounded to the pedestal grounding bar. Trim the excess tone wire after securing it to the grounding bar.

31. Secure the drop cable jacket with a Pan-Ty at the Pan-Ty location on the drop cable plate.
32. Secure the drop-cable strength members under the washer, and trim the strength members below the top of the plate.



Splice tray cabling (Loose tube, Ribbonized Fiber & Drop Cables)

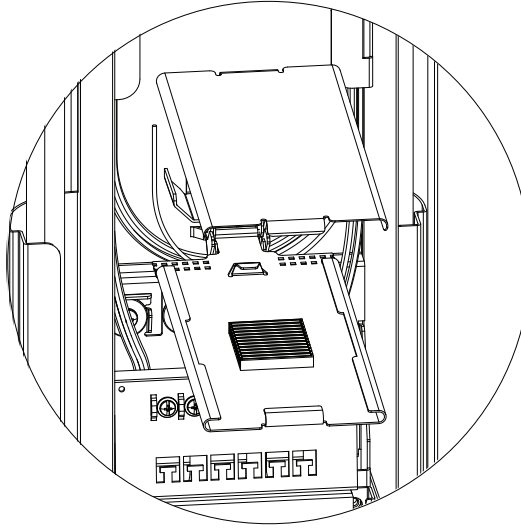
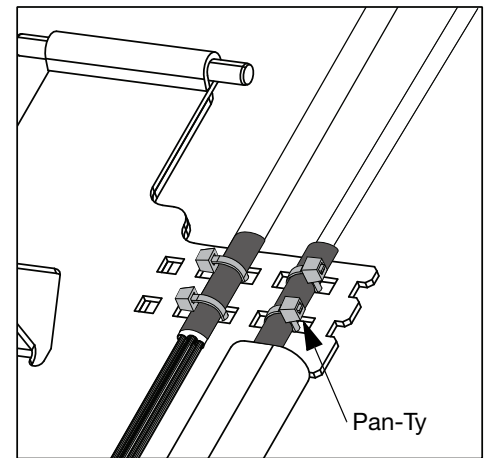
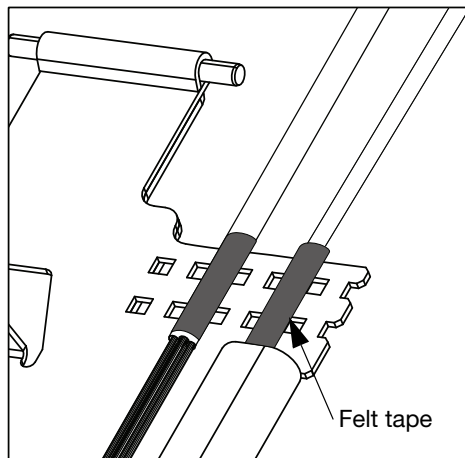
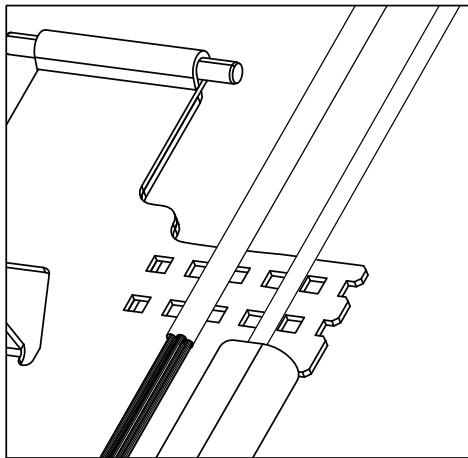
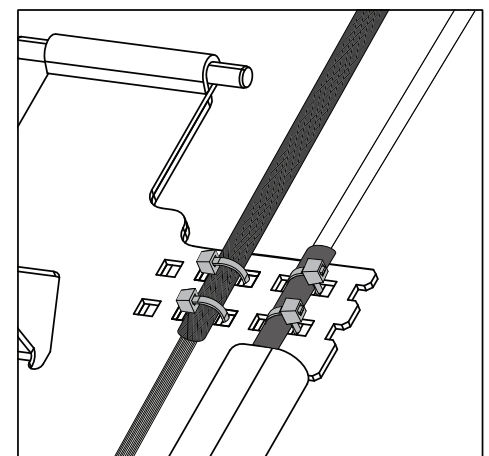
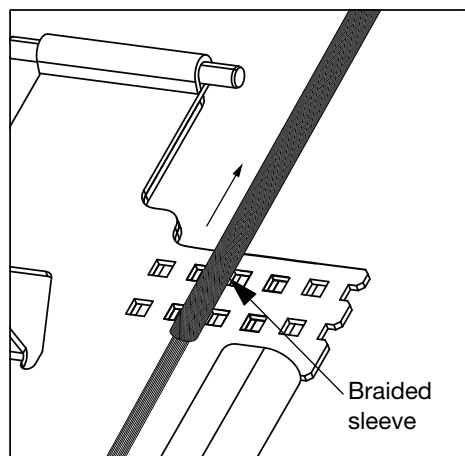
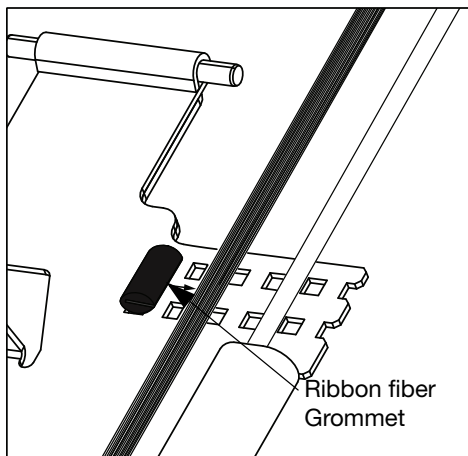
25. Remove Splice tray cover.
26. Route fiber into the Splice tray from either side of the tray. The fibers should always cross to the opposite side of the splice tray receptacle to prevent damage.

For Loose Tube fiber

27. Mark the buffer tube to be cut during splicing.
28. Cut approximately 1" of felt tape and wrap around the buffer tube at the cut mark.
29. Secure the buffer tube with the felt to the tray with (2) Pan-Tys.

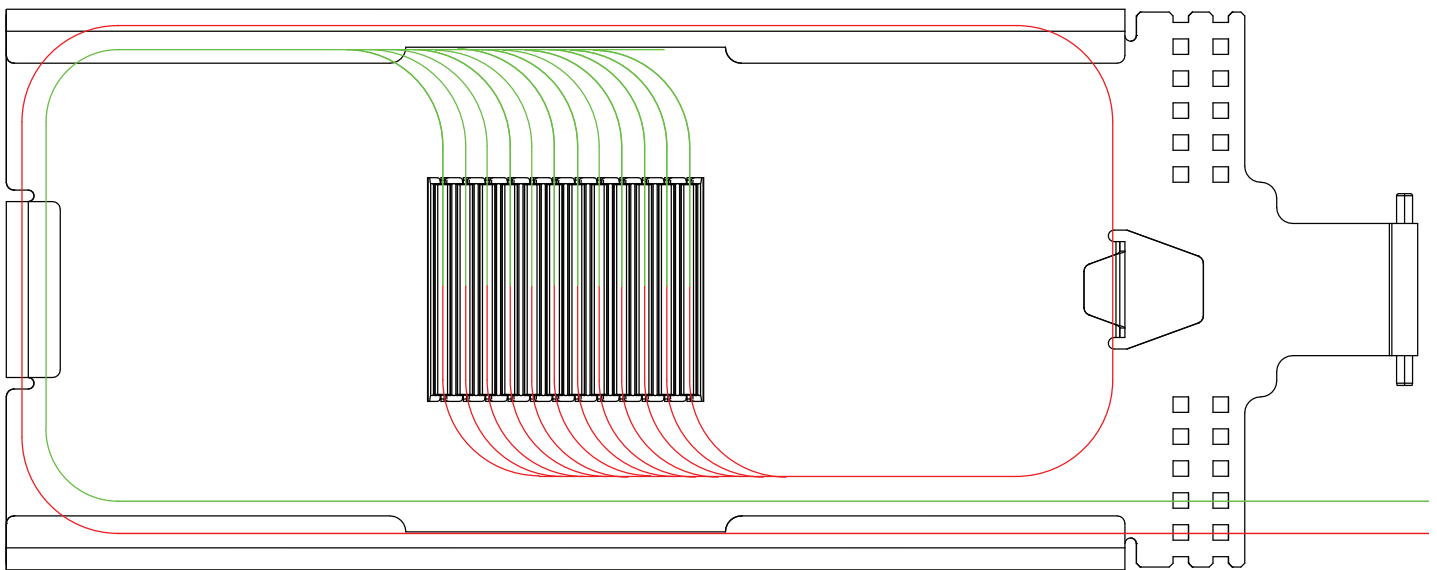
For Ribbon fiber

30. Cut a Segment of braided sleeving and insert ribbons through the sleeving
31. Insert ribbon fiber grommet over the ribbon(s)
32. Pull braided sleeving over the ribbon fiber grommet.
33. Secure fiber with Two Pan-Tys over both the grommet and braided sleeving.

**Loose Tube Fiber****Ribbonized Fiber**

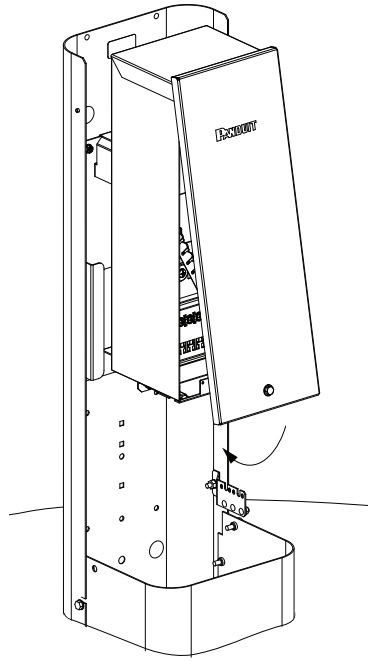
Installing Splice Tray and Fiber

34. The fiber can enter the splice tray from either side.
35. Route the fiber as shown in the image.
For 12 fiber ribbon, install splice protector in every other mounting groove of the splice holder. Splice protectors as well as braided sleeving or transport tubing should be placed over the fiber prior to splicing.



Enclosure cover re-install

3. Re-attach the cover by screwing the hex nut using a 7/16" nut driver or 216-type tool.



Pedestal Top Cover Re-Install

1. Re-install the Top cover.
2. Tighten the locking bolt securely using a 7/16" nut driver or 216-type tool.

