COYOTE® STP PRO TERMINAL CLOSURE

STP PRO SERIES CLOSURE (SPLICING APPLICATIONS)

INSTALLATION INSTRUCTIONS

⚠ IMPORTANT SAFETY INFORMATION

READ AND COMPLETELY UNDERSTAND ALL INSTRUCTIONS BEFORE INSTALLING PRODUCT. FAILURE TO FOLLOW THESE INSTRUCTIONS MAY RESULT IN PERSONAL INJURY OR DEATH.

This product is intended for use by trained technicians only. This product should not be used by anyone who is not familiar with and not trained to use it. When working in the area of energized lines, extra care should be taken to prevent accidental electrical contact. Be sure to wear proper safety equipment per your company protocol. These instructions are not intended to supersede any company construction or safety standards. These instructions are offered only to illustrate safe installation for the individual. PLP products are intended for the specified application only. Do not modify this product under any circumstances. Do not reuse or reinstall any PLP product unless that capability is expressly indicated in the product's Installation Instructions. For proper performance and personal safety, be sure to select the proper PLP product before installation. PLP products are precision devices. To ensure proper performance, they should be stored in cartons under cover and handled carefully.

PACKAGE COMPONENTS

1. Base Assembly (1)
2. Terminal Cover[1] (1)
3. Small Parts Bag (1)
4. Strength Member Bracket Kit[1] (0-2)
5. Drop Restraint Kit[1] (0-2)
6. Drop Grommet Kit[1] (0-2)
7. Feed Grommet Kit[1] (0-2)
8. Splice Tray Kit[1] (1)
9. 3 mm Short Boot Pigtails[1]

Tools Required:

- 3/8" & 7/16" Can Wrench or Socket Wrench
- 1/4" Nut Driver
- Snips
- Fiber Optic Cable Opening Tools
- Phillips Head Screwdriver

NOTE: Depending on base configuration, Package Components list may not reflect actual package contents. Shown above: STP-L3 Base, 9-Port Cover w/ (2) OptiTap® connectors installed, and Short Boot Pigtails (2-Pack).

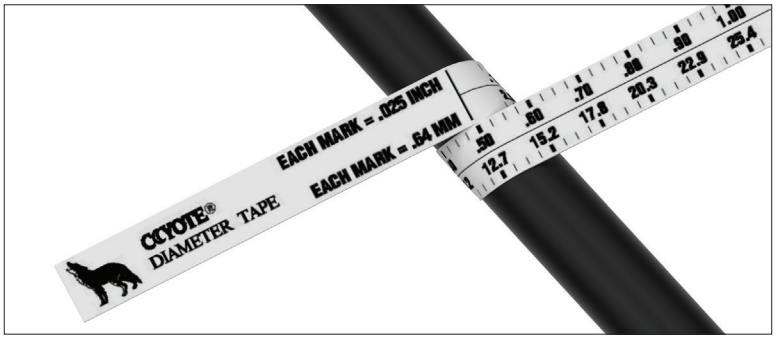
[1]Quantity varies per catalog number. OptiTap® is a registered trademark of Corning Cable Systems.

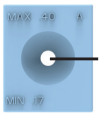
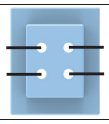
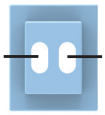
FEED AND BRANCH CABLE PREPARATION

1 Measure the diameter of each cable to select the proper grommet(s) for your application.

NOTE: The lines shown on the grommet selection chart below indicate the required slitting locations for grommets used with express cable.

NOTE: Before taking the diameter measurement, if the cable is a Figure 8 style cable or contains a tracer wire, remove the wire portion of the cable and any burrs left on the cable caused by separating the tracer wire from the sheath before inserting the cable into the grommet.

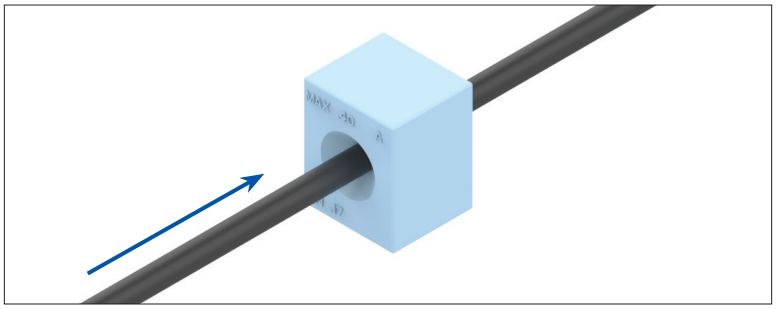


Grommet Selection	Cable Diameter Range
	0.170" - 0.400", Conical (4.3 - 10.2 mm)
	0.400" - 0.550", Conical (10.2 - 14 mm)
	0.156" - 0.170" Round Drop Cables[1] (4.0 - 4.3 mm)
	0.118" - 0.125" Round Drop Cables (3.0 - 3.2 mm)
	For Flat Drop Cables
	ROC™ Drop Grommet Dielectric Drop Only[1]

ROC™ is a trademark of Corning Incorporated.
[1] Not available for slitting applications

2 If using cut cable, insert the cable through the grommet. Insert grommet plugs in any unused holes.

NOTE: If your application requires express/balloon/ring cut cables, see **Step 4** for grommet slitting procedure.

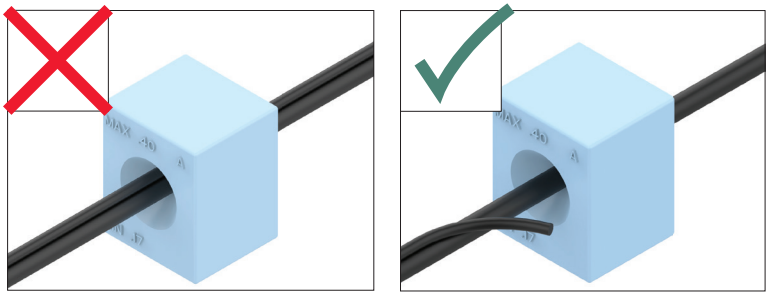


3 To install Figure 8 style cables or cables with tracer wire in a grommet, remove the tracer/ground wire from the portion of the cable that will be positioned in the grommet. Remove any burrs left on the cable caused by separating the tracer/ground wire from the sheath and insert the cable into the grommet.

CAUTION

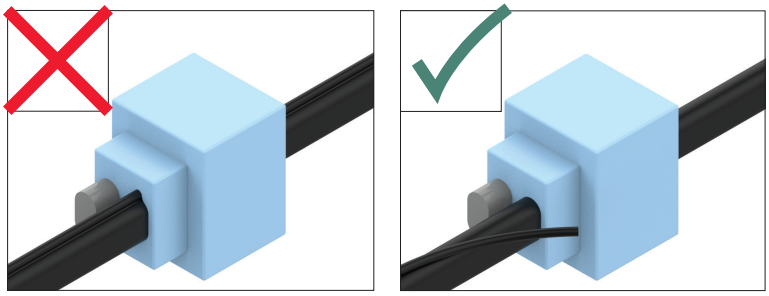
Failure to separate tracer wires or ground wires from the cable or removing burrs left on the cable may allow water to migrate through the cable entrance of the grommet.

Cable with Figure 8 Cable



Incorrect Installation | Correct Installation

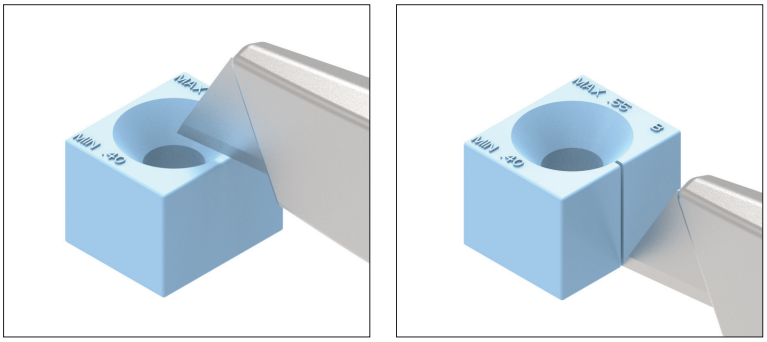
Cable with Tracer Wire



Incorrect Installation | Correct Installation

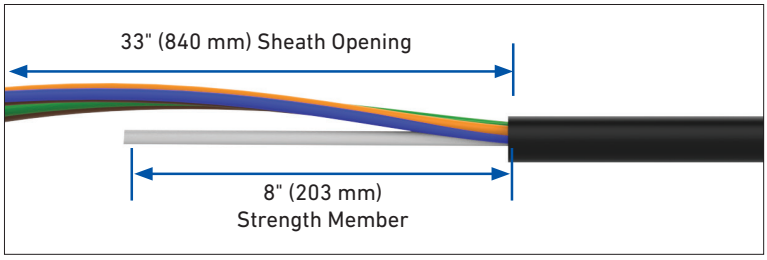
4 Grommet Slitting – If slitting is required, lay the grommet on a stable flat surface. Position the utility knife with the cutting edge against the top surface and cut through the grommet. **Consult the grommet chart for slitting locations of all grommets.**

NOTE: Use a pen to sketch slitting lines on the top surface of the grommet prior to cutting.



5 Prepare the loose tube/buffer tube cable(s) for cut application.

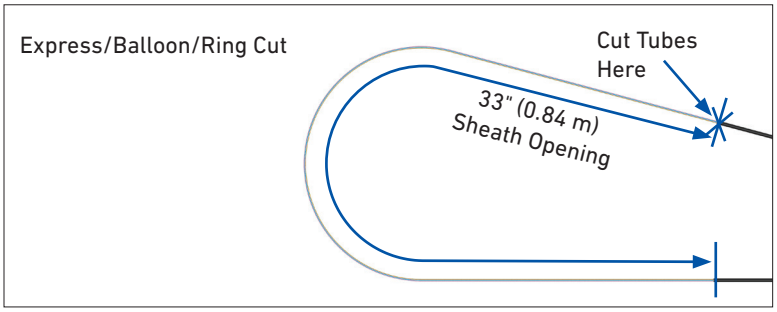
NOTE: Leave roughly 8" (203 mm) of strength member to trim later.



CABLE SHEATH OPENING WHEN FIBER IS DEDICATED TO THE SPLICE POINT

6 Prepare the loose tube/buffer tube or cable(s) for the mid-sheath applications.

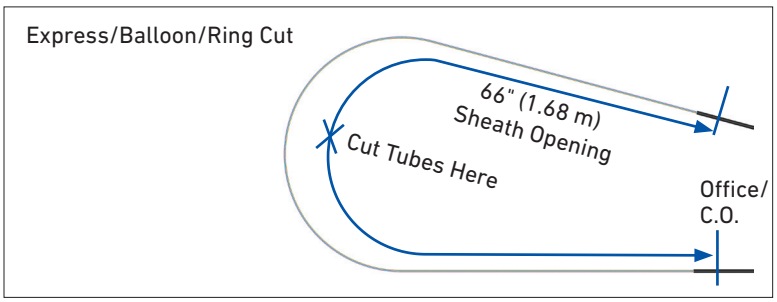
NOTE: Leave roughly 8" (20.3 cm) of the strength member to trim later.



CABLE SHEATH OPENING WHEN FIBER IS NOT DEDICATED TO THE SPLICE POINT

7 Prepare the loose tube/buffer tube or cable(s) for mid-sheath applications.

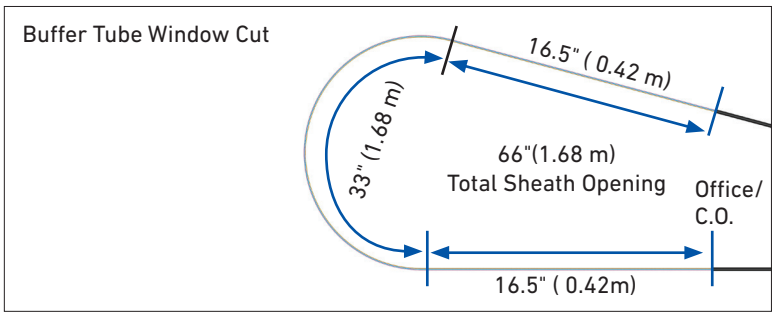
NOTE: Leave roughly 8" (20.3 cm) of the strength member to trim later.



CABLE SHEATH OPENING FOR BUFFER TUBE WINDOW CUT APPLICATIONS

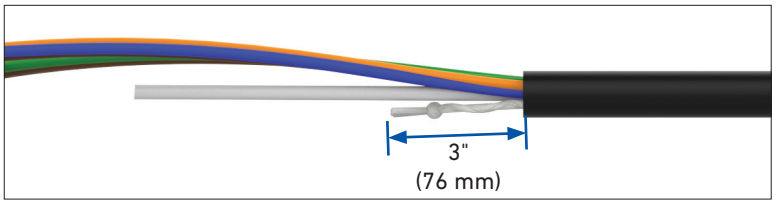
8 Prepare the loose tube/buffer tube or cable(s) for expressed fiber.

NOTE: Leave roughly 8" (20.3 cm) of the strength member to trim later.



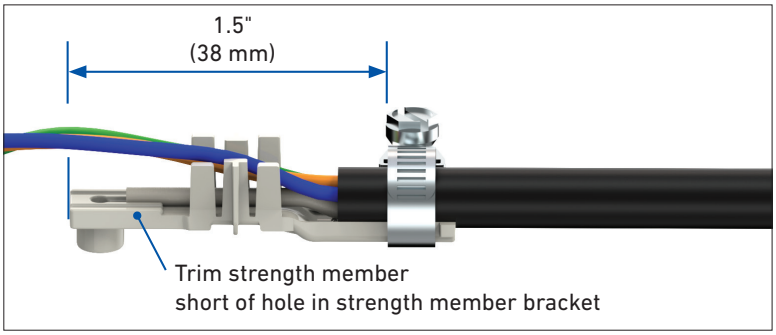
PREPARING CABLE RESTRAINT

9 If the cable contains aramid yarn, braid roughly 3" (76 mm) of the aramid yarn.



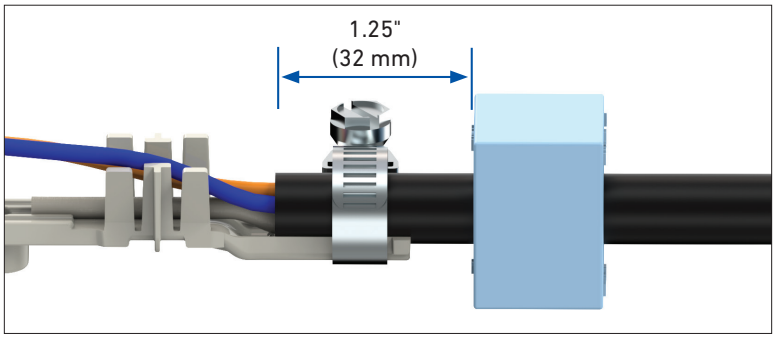
10 Position the cable on the strength member bracket as shown, and cut the strength member short of the hole in the strength member bracket. Secure the cable to the strength member bracket with the hose clamp.

NOTE: It is recommended to install the hose clamp with the housing positioned to the side of the strength member bracket with the hose clamp head up. The hose clamp body should be facing towards the center of the clip gate when installed.



11 Position the grommet 1.25" (32 mm) away from the cable sheath opening.

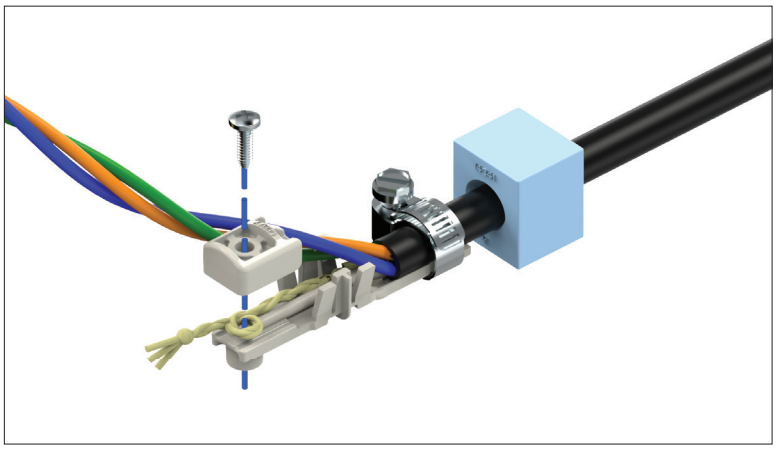
NOTE: Cables can be prepared and secured to the brackets outside of the closure footprint for easier application.



12 Install the aramid yarn and or the strength member(s) of the cable under the strength member cap. Wrap the braided aramid yarn around the screw and fully tighten.

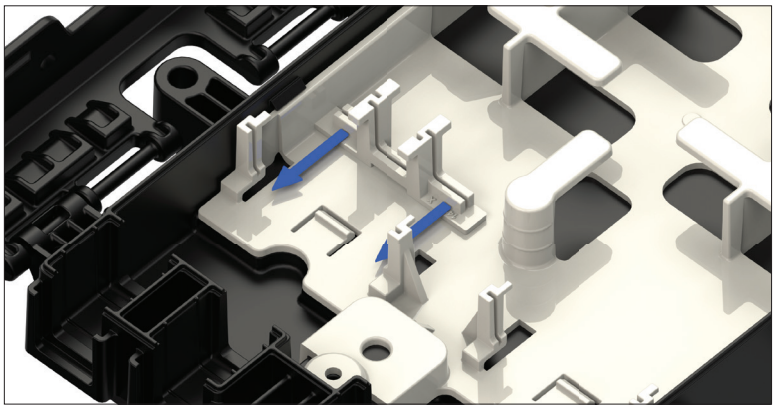
CAUTION

If close attention is not paid while the cable strength member(s) are secured under the cap, buffer tubes may become pinched or distorted.

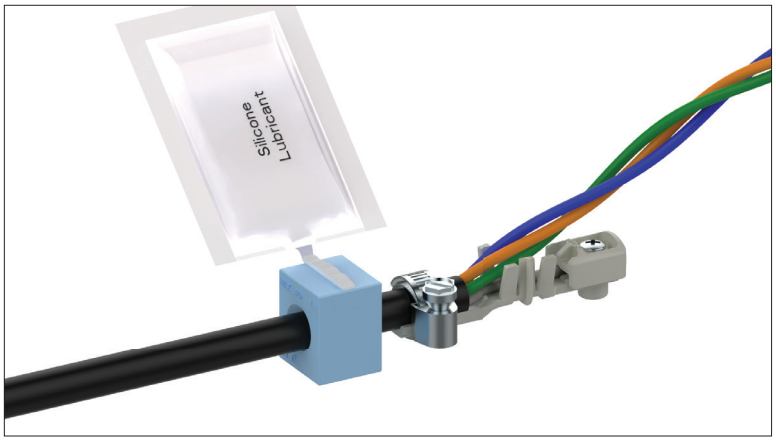


FEED CABLE PREPARATION

13 Install the clip gate as shown, ensuring the notched end faces the grommet ports. The clip gate will "click" when fully seated.

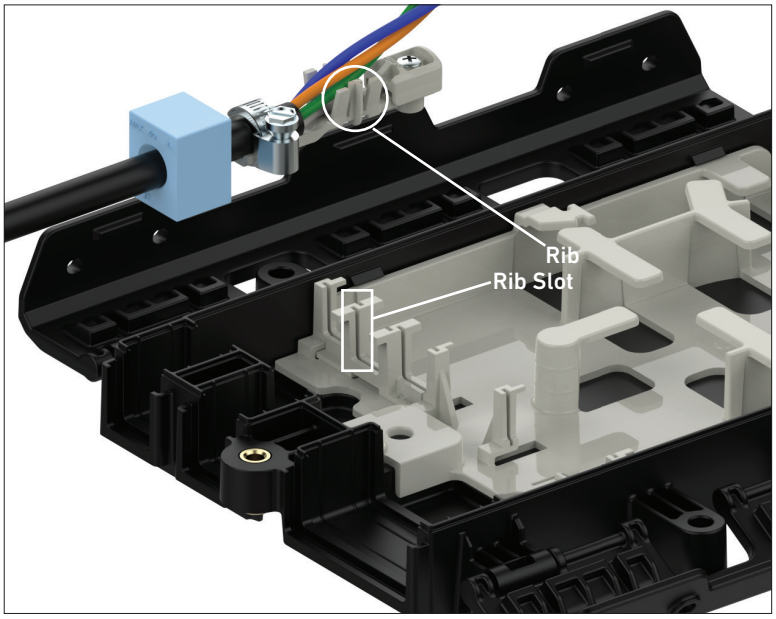


14 Lubricate the outer surface of the grommets with the provided silicone lubricant. Spread the lubricant evenly around the outer surface of the grommet.

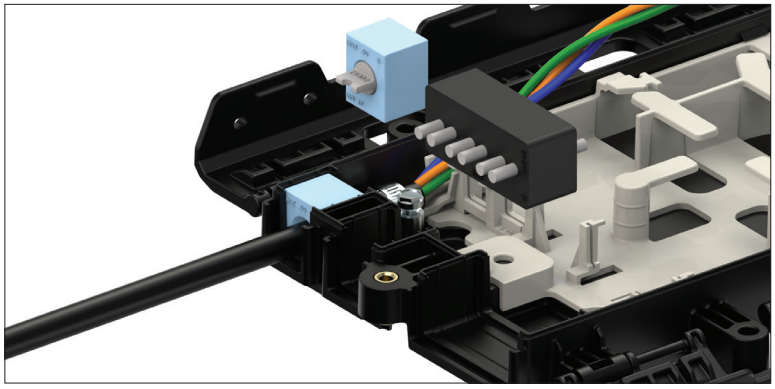


15 Align the grommet with the grommet ports in the base. Align the rib on the strength member bracket with the slots in the clip gate and firmly press to engage. Two "clicks" will be heard as the strength member bracket engages with the locking features on the clip gate.

NOTE: Ensure the tabs on both sides of the strength member bracket are fully engaged under the clip gate.

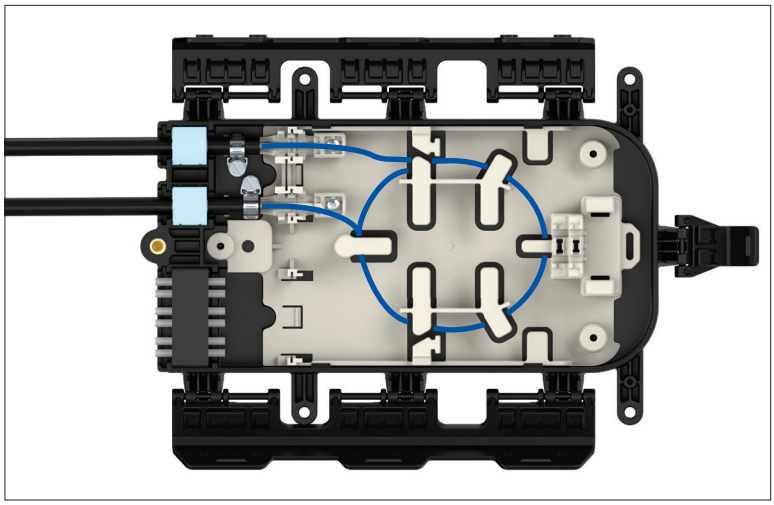


16 Install the plugged grommets in all the unused grommet ports.



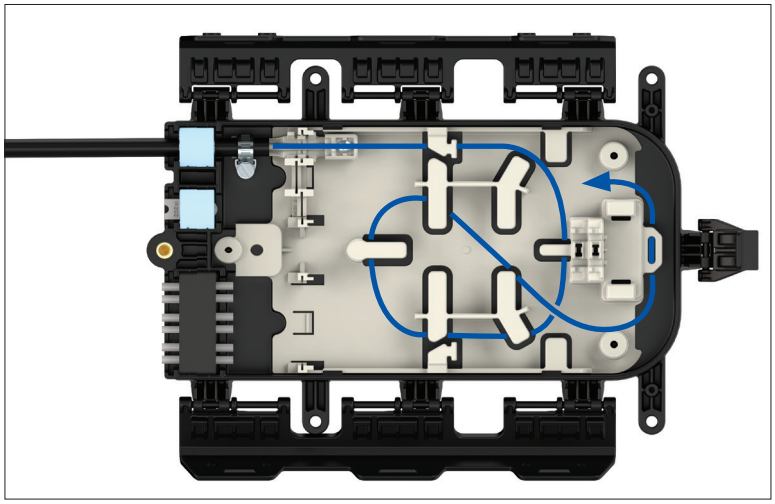
ROUTING EXPRESS FIBER

17 Route any expressed buffer tubes under the tabs of the organizer as shown.



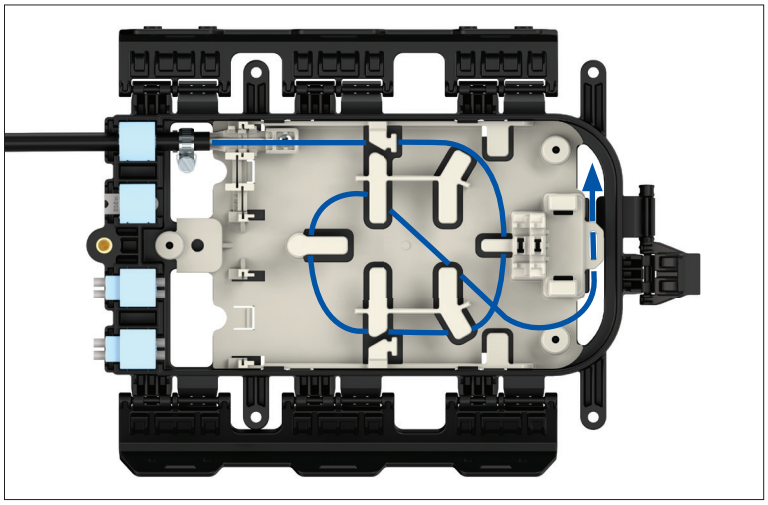
ROUTING FEED FIBER TO SPLICE TRAYS

18 Route the incoming tube(s) with the fibers to be spliced through the storage area and up to the splice tray as shown.



ROUTING FROM FEED TO DROP SIDE (STP-XL SPECIFIC)

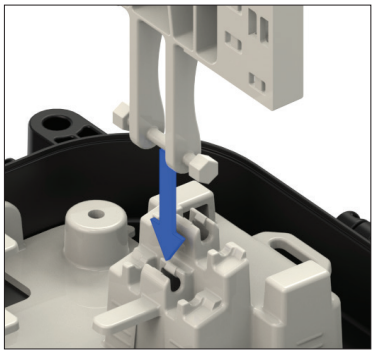
19 Route the incoming tube(s) with the fibers to be spliced through the storage area and up to the pass-through area at the top of the closure as shown.

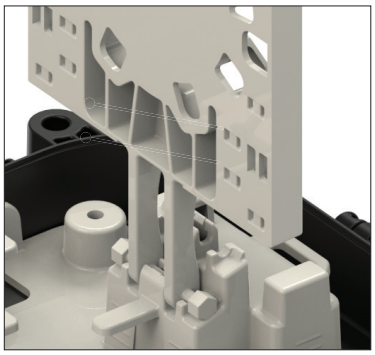


SPLICE TRAY INSTALLATION

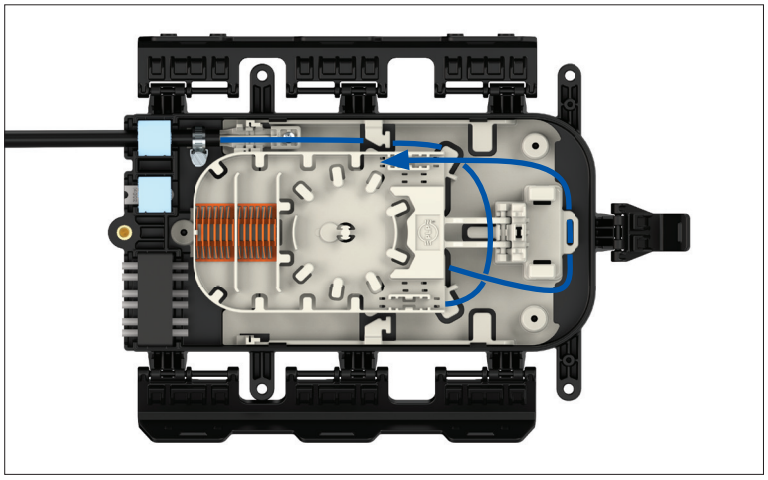
20 Firmly push the tray into the tray bracket.

NOTE: In the STP Pro Terminal application, only ONE splice tray can be used with the terminal.

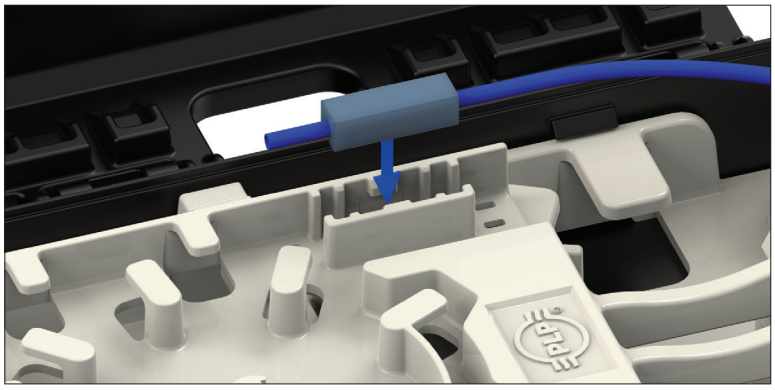




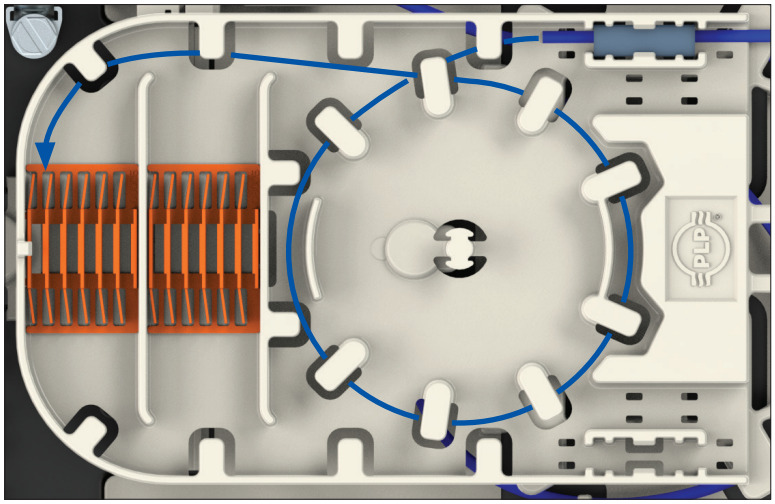
21 Route the incoming tube(s) with the fibers to be spliced through the storage area and up to the splice tray as shown.



22 To retain the buffer tubes, install the LITE-GRIP® Retention Sleeve onto the buffer tube and then into the splice tray as shown.



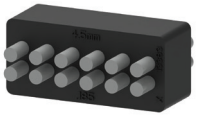
23 Route the fibers into each splice tray as shown.



DROP CABLE PREPARATION

24 Measure the diameter of each cable to select the proper grommet(s) for your application.

NOTE: If the cable is a Figure 8 style cable or contains a tracer wire, remove the wire portion of the cable and any burrs left on the cable caused by separating the tracer wire from the sheath before inserting the cable into the grommet.

Large Grommet Selection	Cable Diameter Range
	0.193" - 0.201" (4.9 - 5.1 mm) 12 ROUND DROP CABLES
	6 FLAT DROP CABLES

25 Remove the pre-installed grommet plugs if present and push the drop cable(s) through the grommet.

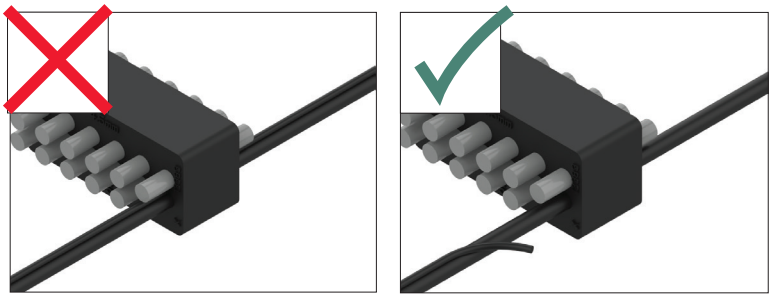
NOTE: For the grommets with two layers of ports, fill the bottom row of the grommet before utilizing the top row.

NOTE: If the cable is a Figure 8 style cable or contains a tracer wire, remove the wire portion of the cable before inserting the cable into the grommet. Remove any burrs left on the cable caused by separating the tracer wire from the sheath.

CAUTION

Failure to separate the tracer wires or ground wires from the cable or removing burrs left on the cable may allow water to migrate through the cable entrance of the grommet.

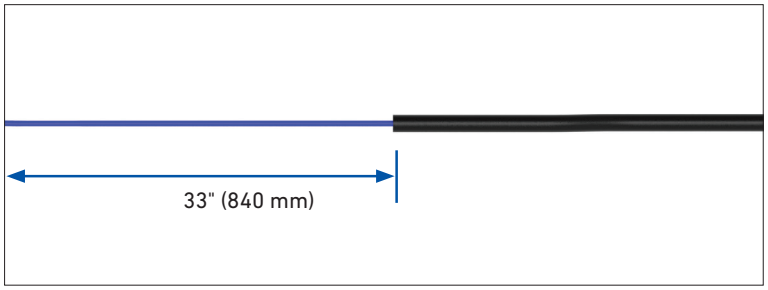
Drop Cable with Tracer Wire



Incorrect Installation

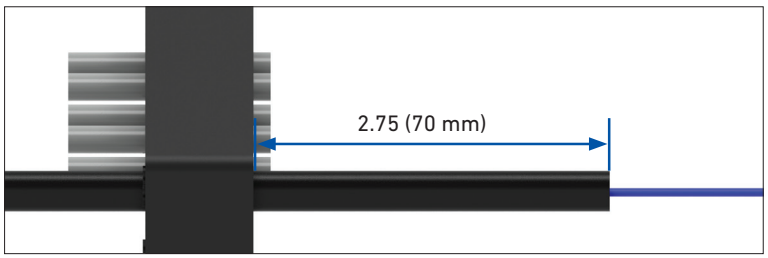
Correct Installation

26 Measure, mark, and remove the cable sheath to expose 33" (840 mm) of fiber for cut cable applications as shown.

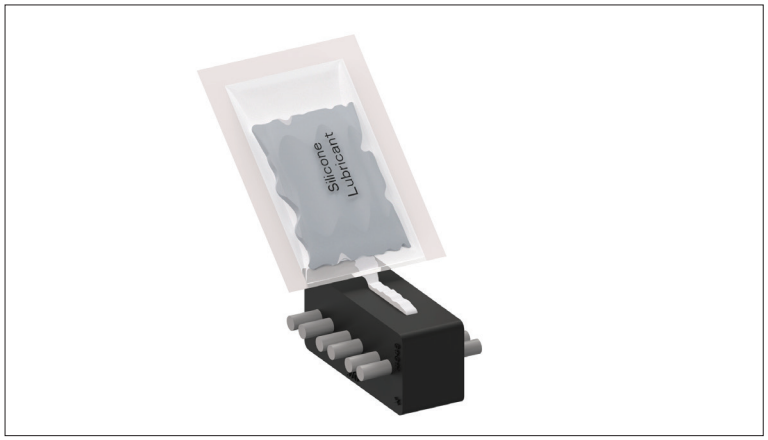


27 Position the grommets roughly 2.75" (70 mm) away from the sheath opening.

NOTE: Install plugs in all unused holes in the grommet if not already present.

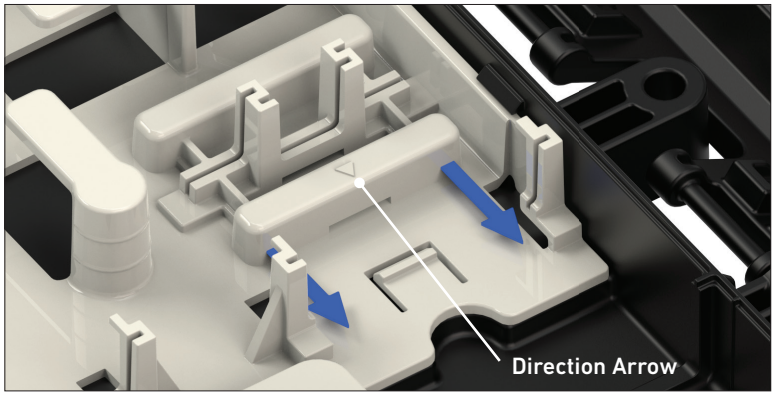


28 Lubricate the outer surface of the grommets with the provided silicone lubricant. Spread the lubricant evenly around the outer surface of the grommet.

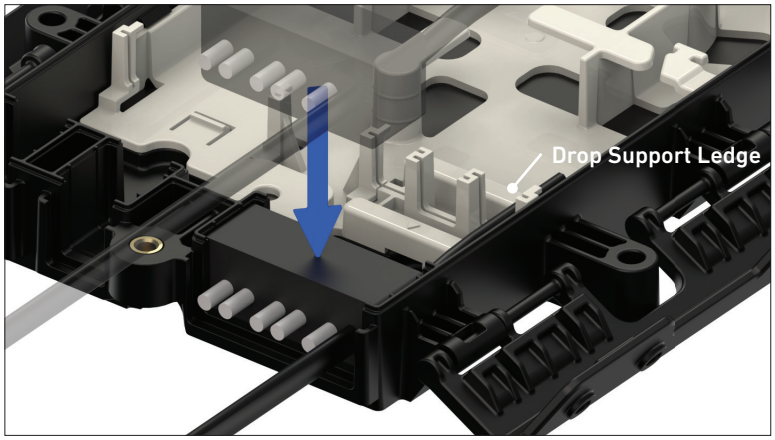


INSTALLING DROP CABLE

29 Install the drop clip gate as shown, ensuring the direction arrow faces the grommet ports. The drop clip gate will "click" when fully seated.

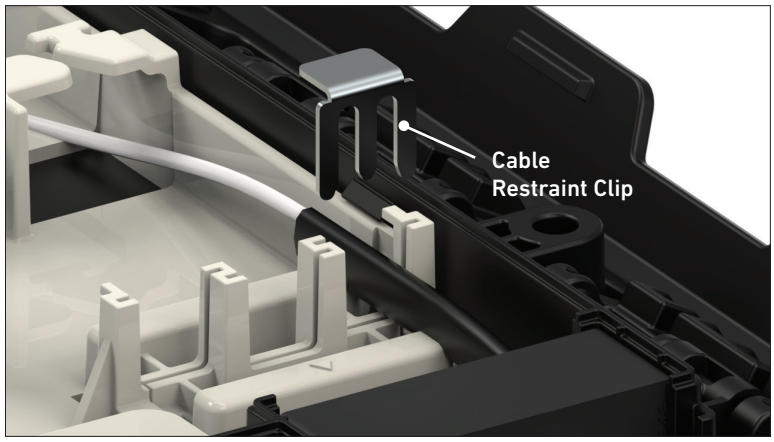


30 Insert the grommets into the grommet ports, ensuring that the drop cables extend past the inner most drop support ledge.

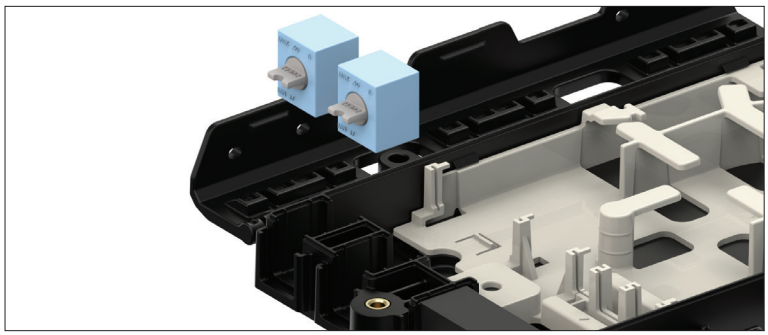


31 Align the cable restraint clips with the slots in the drop clip gate. Firmly press the clip onto the outer jackets of the drop cables.

NOTE: Use a can wrench to push the cable restraint clip into the slot in the drop clip gate.

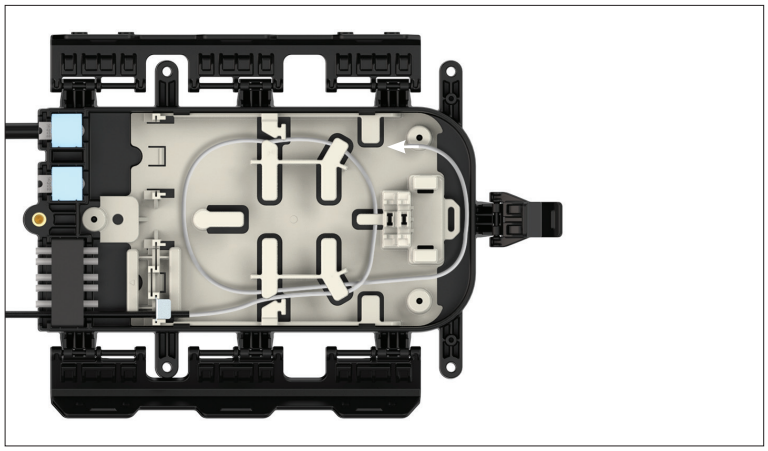


32 Install plugged grommets in all unused grommet ports.



ROUTING DROP FIBER TO SPLICE TRAYS

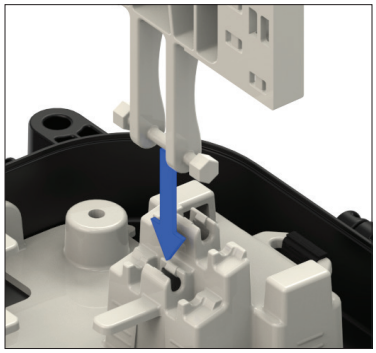
33 Route the incoming tube(s) with fibers to be spliced through the storage area and up to the splice tray as shown.

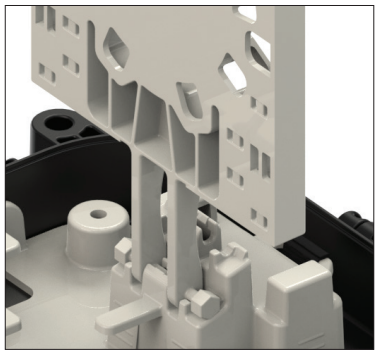


SPLICE TRAY INSTALLATION

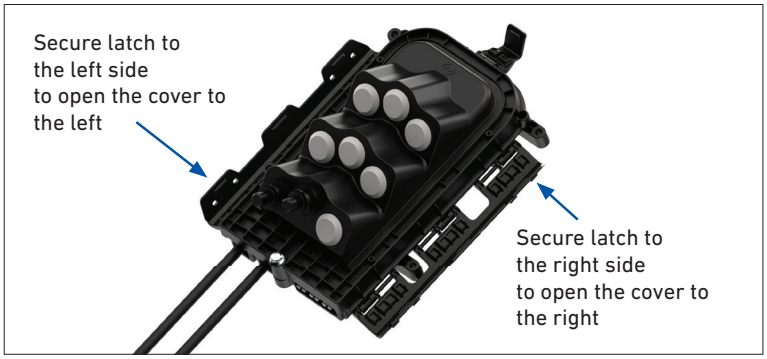
34 Firmly push the tray into the tray bracket.

NOTE: In the STP Pro Terminal application, only ONE splice tray can be used with the terminal cover.



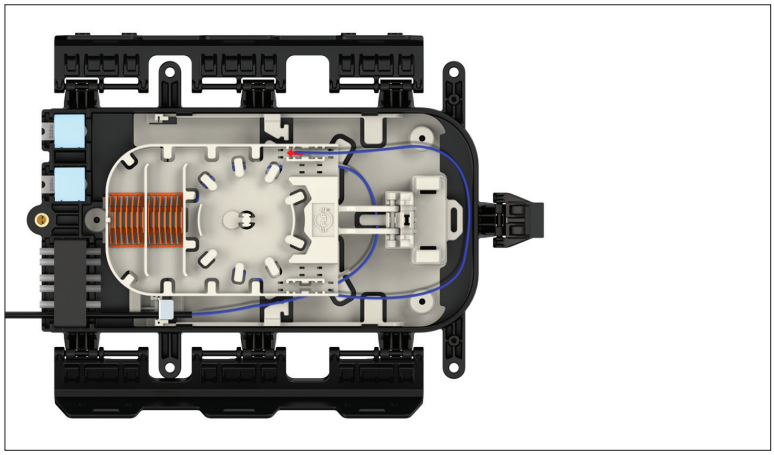


35 Rotate the cover to the closed position.

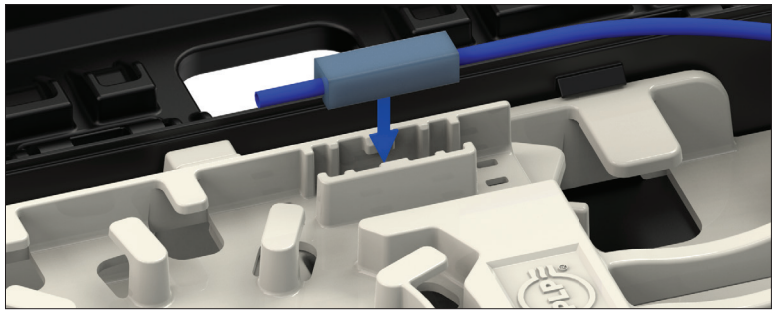


36 Install the two screws provided to allow the latch to act as a hinge for the cover. The image shown will allow the cover to hinge open to the left.

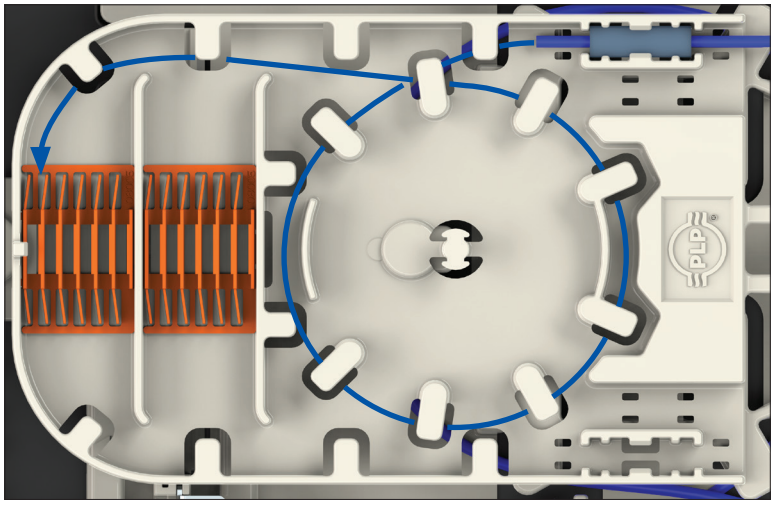
37 Route the incoming tube(s) with the fibers to be spliced through the storage area and up to the splice tray as shown.



38 To retain buffer tubes, install a LITE-GRIP® Retention Sleeve onto the buffer tube, then place it into the splice tray as shown.

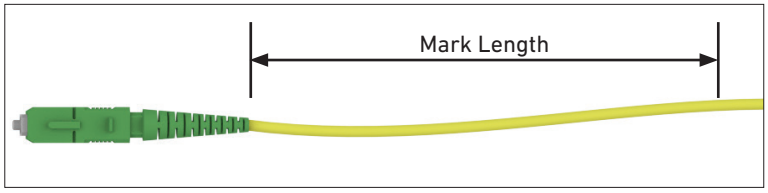


39 Route the fibers into each splice tray as shown.



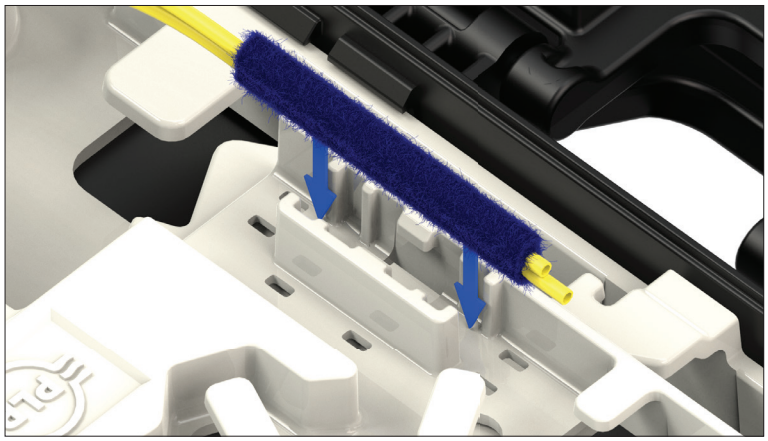
PIGTAIL ROUTING

40 Measure and mark each pigtail to the specified length. Remove the jacket of each pigtail beyond the marked location.

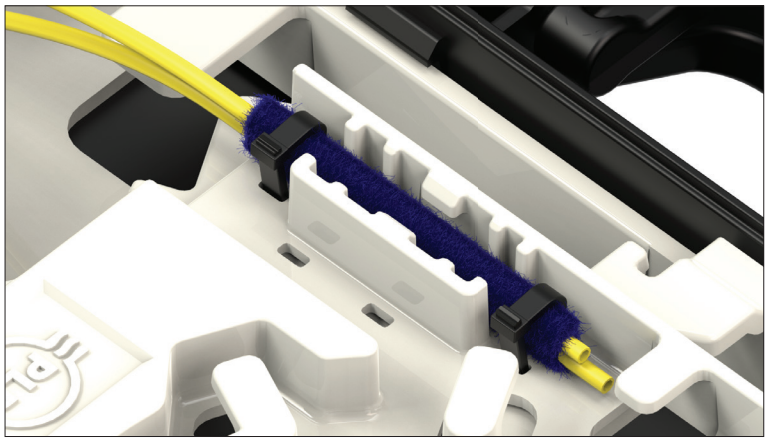


Port	Mark Length
1-3	39"
4-6	37"
7-9	35"

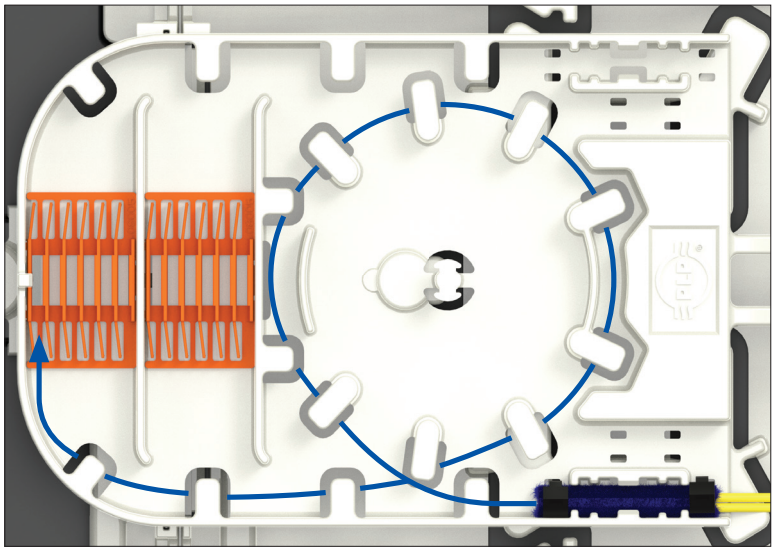
41 Open pigtails up at the marked length. Wrap the pigtails in blue felt as shown.



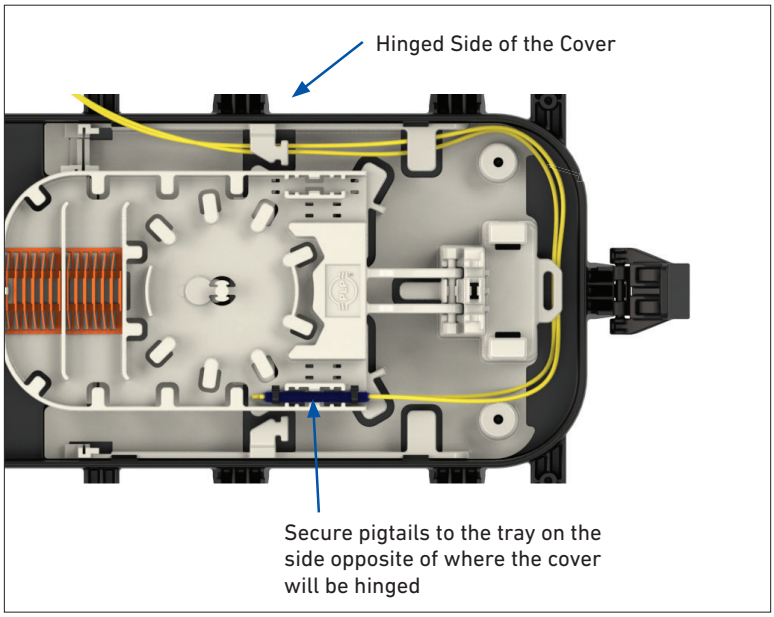
42 Use cable ties to secure the blue felted pigtails into the splice tray as shown.



43 Route the fibers into each splice tray as shown.



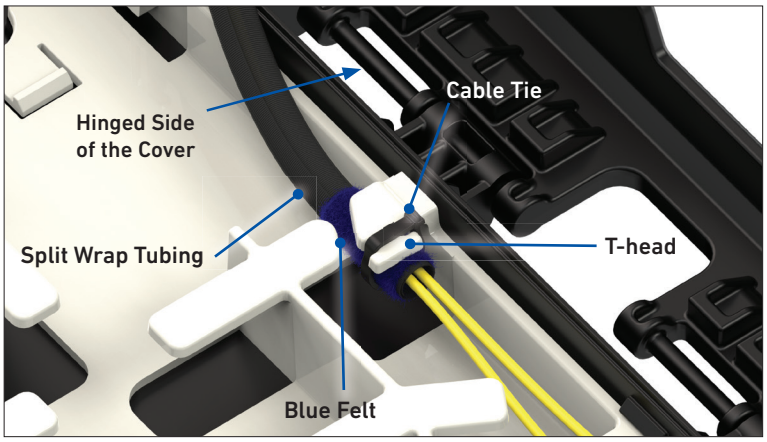
44 Route the pigtails from the splice tray and under the fingers in the organizer as shown. Lay the tail ends of the pigtails off to the side for the moment.

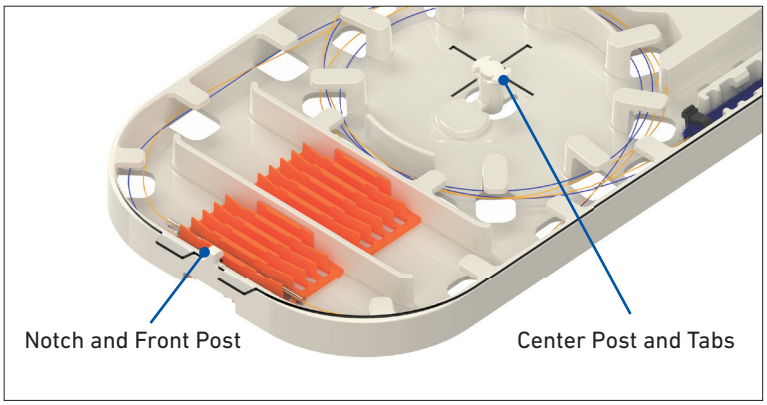


45 Wrap the pigtails in split wrap tubing. Wrap the end of the split wrap in blue felt and cable tie to the T-head in the organizer on the side closest to the cover hinge.

Install the tray cover as shown.

NOTE: Ensure the four tabs in the center of the tray cover snap under the tabs on the post in the center of the tray and the notch in the front of the tray cover goes under the post at the front of the tray.

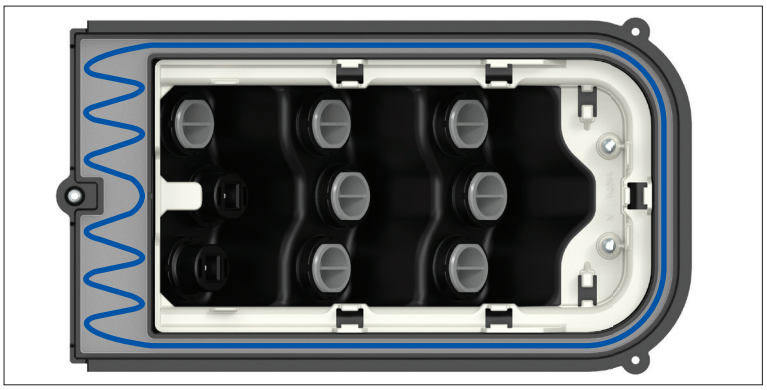




46 Using a can wrench, install the bolt(s) into the cover(s).

NOTE: Assembly and installation of all STP Pro closure covers is the same. The following instructions show the terminal cover.

47 Lubricate all surfaces of the gasket with silicone lubricant to ensure proper assembly and closure re-entry.

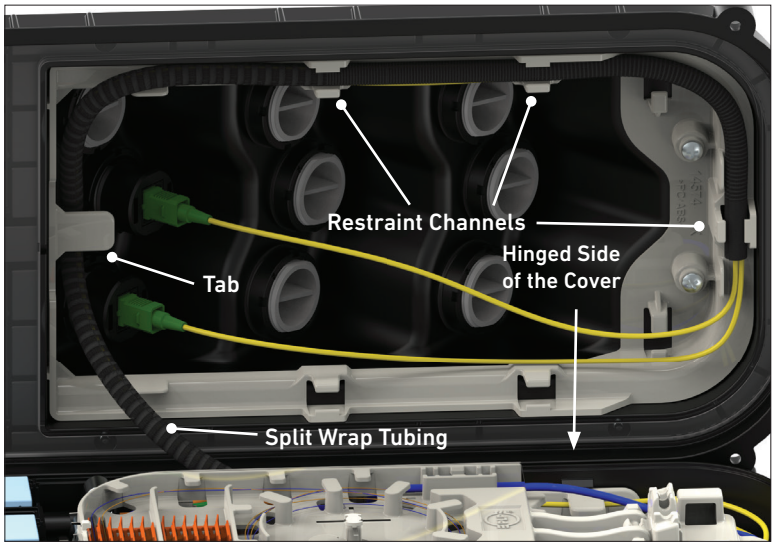


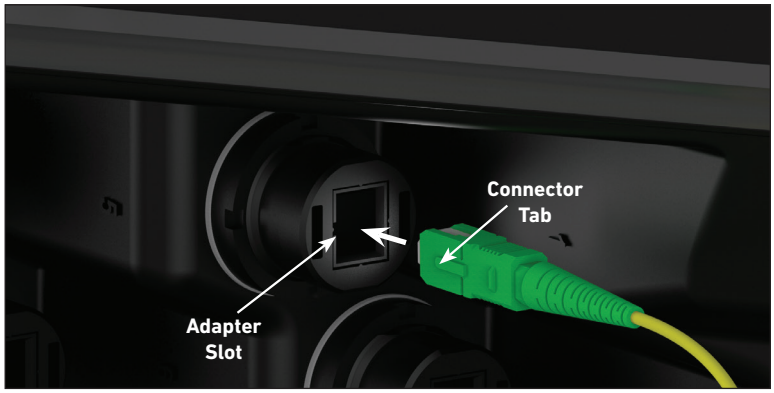
48 Lay the cover next to the base and route the pigtails inside the split wrap tubing under the tab and through the restraint channels. Finally, install the pigtails into the ports in the cover.

NOTE: Make sure to align the tab of the connector with the slot of the adapter when inserting the connector into the adapter.

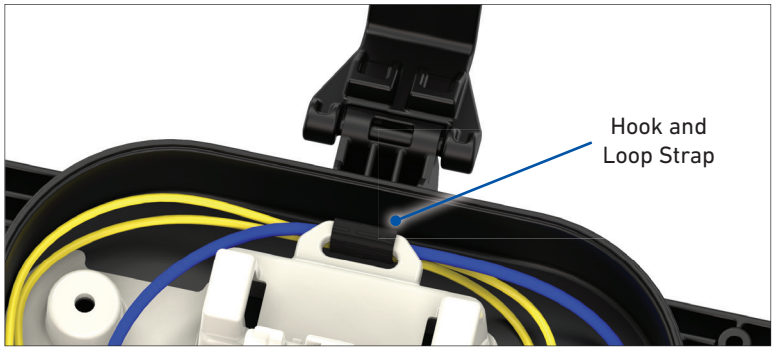
CAUTION

Failure to route the pigtails under the tab in the cover can cause damage to the fiber.





49 Secure the tubes routing to the splice tray(s) under the tab and restrain with a small piece of hook and loop strap as shown.



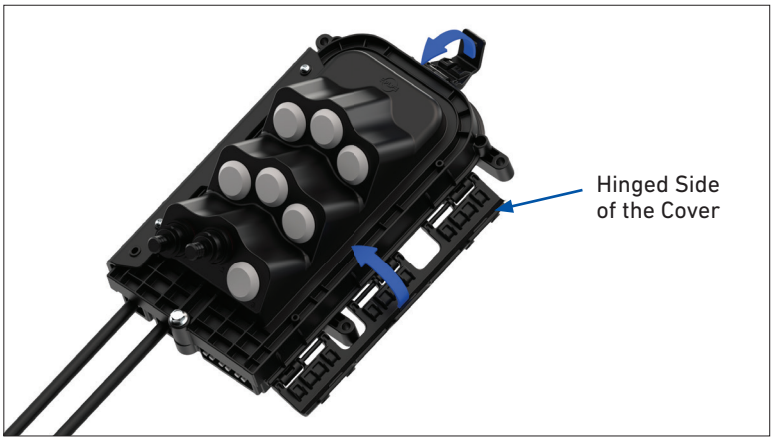
50 Splice the incoming fibers to the outgoing fibers per your accepted company practice.

INSTALLATION OF COVER

51 Carefully close the cover onto the base as shown, ensuring the cover bolt aligns with the insert in the base.

CAUTION

Care must be taken to ensure the pigtails are not pinched while closing the cover. Failure to do so can lead to damaged fibers or sealing issues.



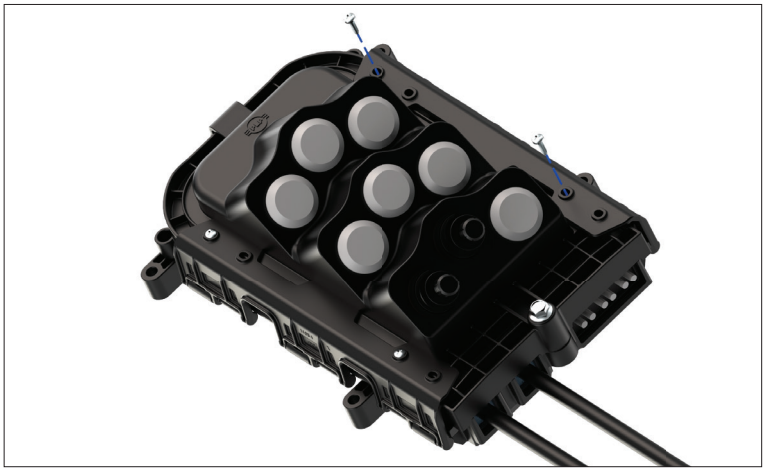
52 Tighten the cover bolt with a can wrench. Rotate the end and side latch to the closed position. During installation of the long side latch, you will hear three clicks indicating the latch is fully closed.

CAUTION

DO NOT USE POWER TOOLS TO INSTALL THE COVER.

NOTE: When using a can wrench or nut driver, the installed torque is 35-40 in-lb.

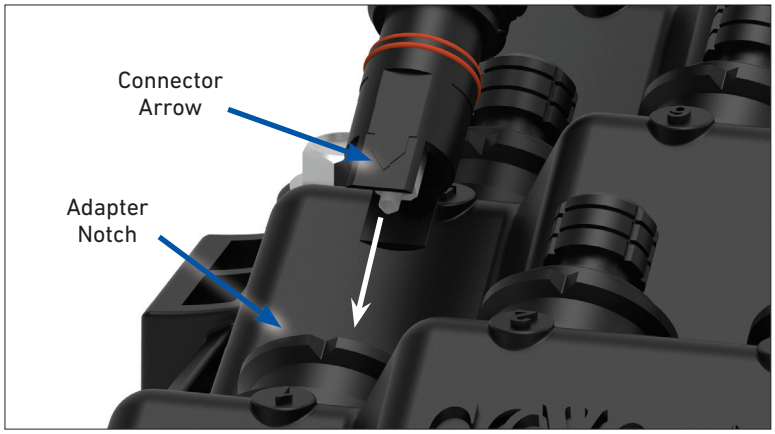
53 **OPTIONAL**- Install two additional screws into the latch opposite the hinge to fully secure the closure cover to the base if desired.



54 Installation of the terminal cover onto an STP-XL base will follow the same steps outlined above.

DROP CABLE INSTALLATION

55 Align the arrow of the connector with the notch of the adapter and insert the connector into the adapter.



56 Rotate the threaded sleeve of the connector until it is secured into the adapter.

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