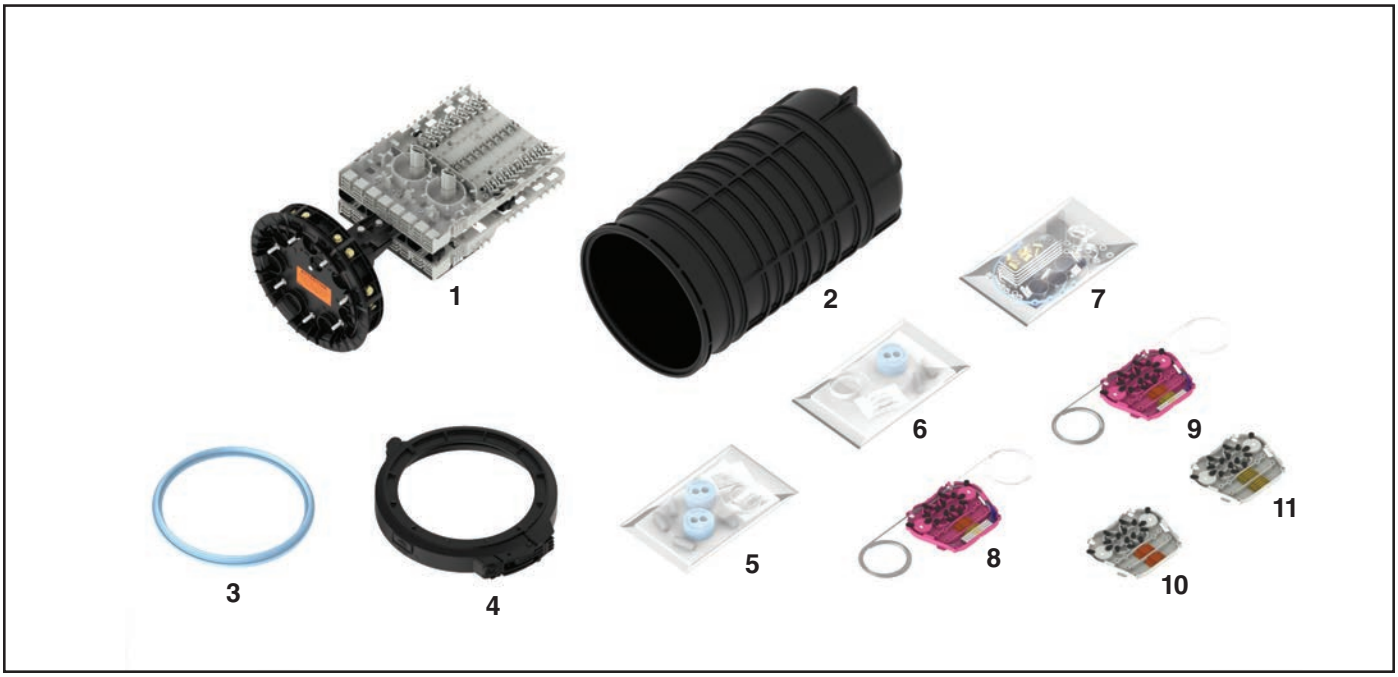
COYOTE® Ribbon SFMS Dome Closure 9.5" x 19" for 2x32 Splitter Application

Be sure to read and completely understand this procedure before applying product. Be sure to select the proper PREFORMED product before application.



NOMENCLATURE

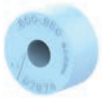
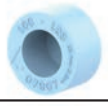
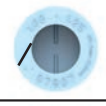
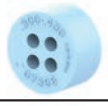
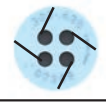
1. Ribbon SFMS Organizer (1 or 2 Towers) with 7-Port End Plate Assembly (1)
2. Dome Cover (1)
3. Dome Gasket (1)
4. Dome Collar (1)
5. Grommet Kit with 2 Grommets (2)
6. Grommet Kit with 1 Grommets (1)
7. Ribbon SFMS Small Parts Bag (1)
8. Splitter Tray with 3 Splitters (1 or 2)
9. Splitter Tray with 2 Splitters (0 or 1)
10. 24ct Single Fusion/ Single Element Splice Tray (1, 2, or 3)
11. 8ct Mass Fusion/Ribbon Single Element Splice Tray (3, 6, or 9)

TOOLS REQUIRED

- 3/8" & 7/16" Can wrench or socket wrench
- 1/4" Nut driver or screwdriver
- Snips
- Fiber optic cable opening tools

COYOTE RIBBON SFMS Dome Closure 9.5" x 19" Kits	
PLP Catalog Number	**Description**
COYD-919-FDH96-2	**COYOTE 9.5" x 19" Ribbon SFMS Dome Closure with Dark Fiber Storage for 96ct FDH Application** Includes: (1) Ribbon SFMS 1 Tower Organizer with 7-Port End Plate, (1) Dome, (1) Collar, (1) Gasket, (5) 2 Hole Grommets, (1) Small Parts Bag, (1) Strength Member Bracket Kit, (1) Splitter Tray with 3 Splitters, (1) 24ct Single Fusion SE Splice Trays, and (3) 8ct Mass Fusion/Ribbon SE Splice Trays
COYD-919-FDH160-2	**COYOTE 9.5" x 19" Ribbon SFMS Dome Closure with Dark Fiber Storage for 160ct FDH Application** Includes: (1) Ribbon SFMS 1 Tower Organizer with 7-Port End Plate, (1) Dome, (1) Collar, (1) Gasket, (5) 2 Hole Grommets, (1) Small Parts Bag, (1) Splitter Tray with 3 Splitters, (1) Splitter Tray with 2 Splitters, (2) 24ct Single Fusion SE Splice Trays, and (6) 8ct Mass Fusion/Ribbon SE Splice Trays
COYD-919-FDH256-2	**COYOTE 9.5" x 19" Ribbon SFMS Dome Closure with Dark Fiber Storage for 256ct FDH Application** Includes: (1) Ribbon SFMS 2 Tower Organizer with 7-Port End Plate, (1) Dome, (1) Collar, (1) Gasket, (5) 2 Hole Grommets, (1) Small Parts Bag, (2) Splitter Trays with 3 Splitters, (1) Splitter Tray with 2 Splitters, (3) 24ct Single Fusion SE Splice Trays, and (9) 8ct Mass Fusion/Ribbon SE Splice Trays

Accessory Kits	
PLP Catalog Number	**Description**
COYEPFIX1	COYOTE Dome End Plate Fixture
Mounting Brackets	
8003942	Pole/Wall Mounting Bracket
8003835	Universal Mounting Bracket Kit for Handhole Applications
Splitter and Splice Trays	
COYSFMS-FDH-001-A	Splitter Tray with (1) 2x32 Bare Fiber Splitter
COYSFMS-FDH-002	24ct Single Element (Ribbon Management Style) Splice Tray for Single Fusion Splices
COYSFMS-FDH-003	8ct Single Element (Ribbon Management Style) Splice Tray for Mass Fusion/Ribbon Splices

COYOTE Grommet Chart for COYOTE SFMS Dome Closure 9.5" x 19"				
PLP Catalog Number	**Cable Range**	**Description**	**Image**	**Slitting Location(s)**
8003691	.40" - .60" (10 - 15 mm)	1-entry grommet		
8003692	.60" - .85" (15 - 22 mm)	1-entry grommet		
8003693	.85" - 1.0" (22 - 25 mm)	1-entry grommet		
8003694	1.0" - 1.25" (25 - 32 mm)	1-entry grommet		
8003663	.42" - .60" (11 - 15 mm)	2-entry grommet		
8004065	.250" - .312" (6 - 8 mm)	4-entry grommet		
8003664	.30" - .43" (8 - 11 mm)	4-entry grommet		
8003665	.125" - .25" (3 - 6 mm)	6-entry grommet		N/A
8003676	Large Hole: .42" - .60" (11 - 15 mm) Small Holes: .125" - .25" (3 - 6 mm) and Flat Drop Cable	7-entry grommet		N/A
8003677	.125" - .25" (3 - 6 mm)	8-entry grommet		N/A

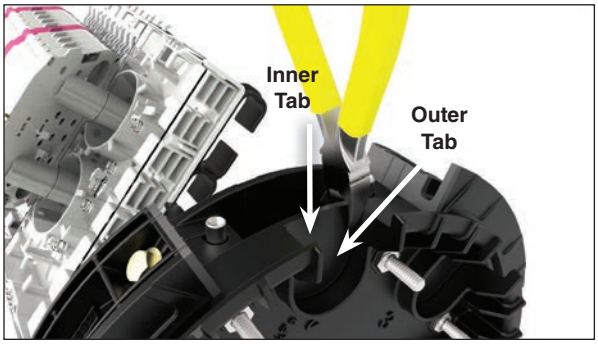
End Plate Preparation

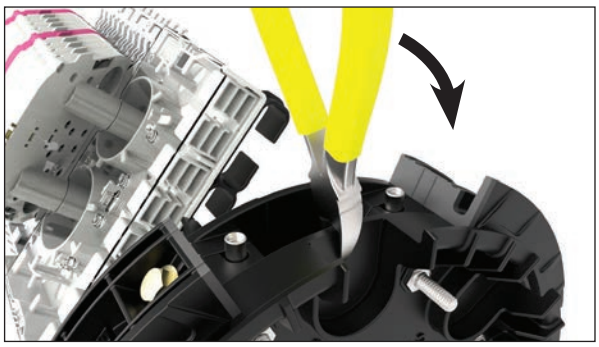
Step #1 Select the cable ports to be used.

96ct and 160ct Applications: Use cable ports 2 and 7 for feed cable.

256ct Application: Use cable ports 3 and 6 for feed cable.

Step #2 Remove the end plate caps from the selected cable ports. Break out the outer and inner tabs of each cable port by snipping the grooves on both sides of each tab with side cutters. Once the grooves have been snipped, remove each tab by pulling the tab outwards from the end plate.

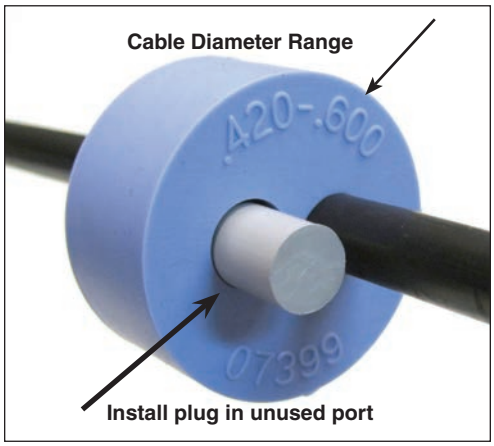




Cable Preparation

Step #3 Measure the cable to determine the diameter and the hole location to use in the grommet.

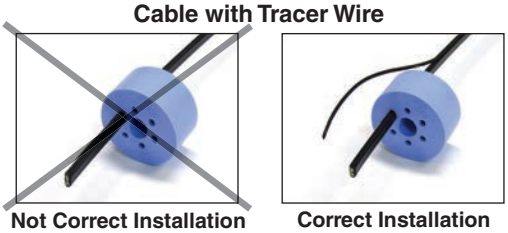
Step #4a If using cut cable, insert cable through the grommet. If your application requires express/balloon/ring cut cables, **see Step 5 for grommet slitting procedure.**



Step #4b **Installing Figure 8 Style Cables and Cables with Tracer Wires**

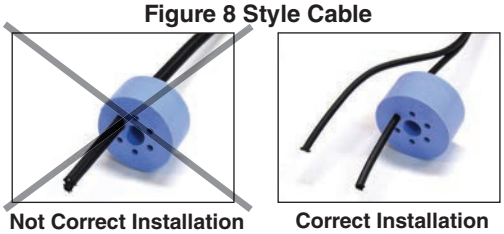
Remove the tracer wire or the ground wire from the portion of the cable that will be positioned in the grommet and insert the cable into the grommet.

Cable with Tracer Wire



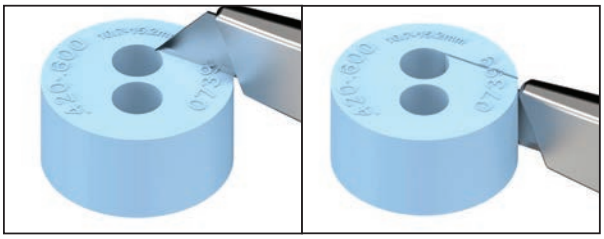
Not Correct Installation | Correct Installation

Figure 8 Style Cable

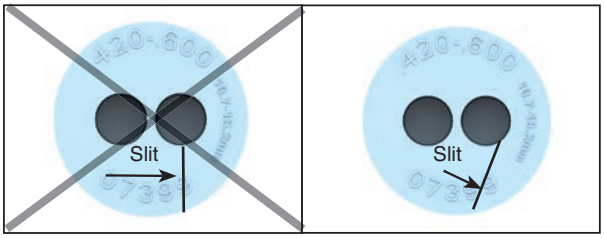


Not Correct Installation | Correct Installation

Step #5 **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 on page 2 for slitting locations of all grommets.**

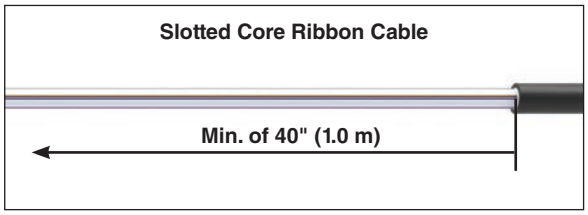


PLP Tip: Use a pen to sketch slitting lines on the top surface of grommet prior to cutting.



Not Correct Slitting Angle | Correct Slitting Angle

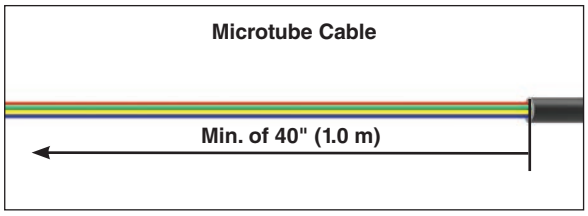
Step #6a Prepare the slotted core ribbon cable for cut applications.



Minimum Sheath Opening for Cut Cable Applications	
40"	1.0 m

PLP Tip: Leave about 8" (203 mm) of strength member to trim later.

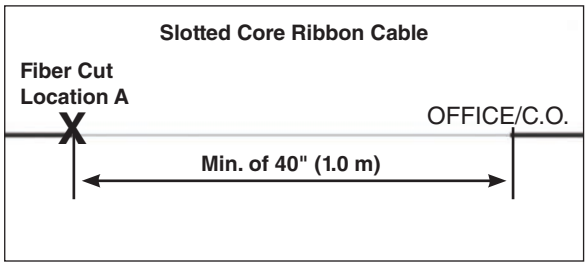
Step #6b Prepare the microtube cables for cut applications.



Minimum Sheath Opening for Cut Cable Applications	
40"	1.0 m

PLP Tip: Leave about 3" (76 mm) of the rip cord.

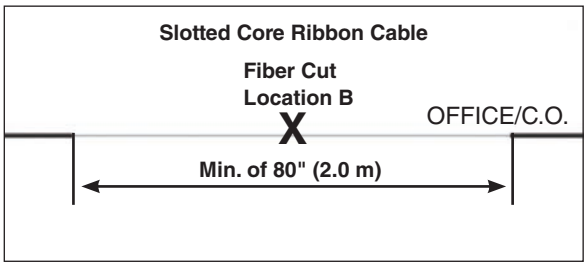
Step #7a Prepare the slotted core ribbon cable for mid sheath applications (Express/ Balloon/Ring Cut).



Minimum Sheath Opening for Expressed Cable Applications Where Fiber is Dedicated to the Splice Point (Cut Location A)	
40"	1.0 m

PLP Tip: Leave about 8" (203 mm) of the slotted core of the cable on each side to trim later.

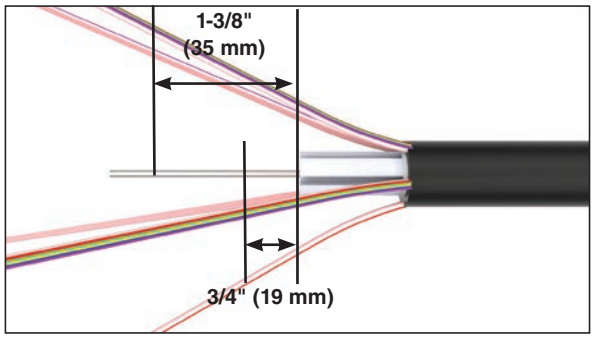
Step #7b Prepare the slotted core ribbon cable for mid sheath applications (Express/ Balloon/Ring Cut).



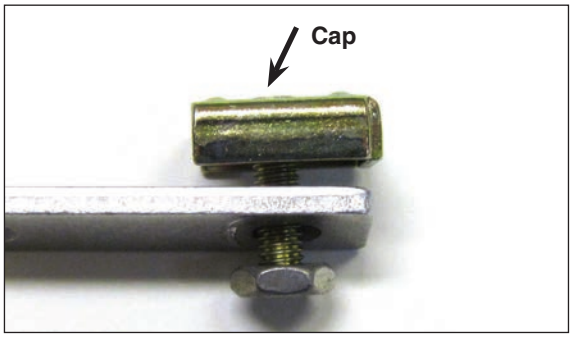
Minimum Sheath Opening for Expressed Cable Applications Where Fiber is NOT Dedicated to the Splice Point (Cut Location B)	
80"	2.0 m

PLP Tip: Leave about 8" (203 mm) of strength member to trim later.

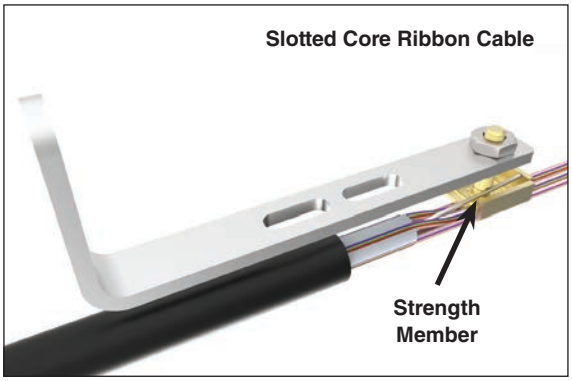
Step #8 Remove the ribbons from the slotted core of the ribbon cable. Cut the slotted core and steel strength member 1-3/8" (35 mm) from the sheath opening. Remove the slotted core from the steel strength member 3/4" (19 mm) from the sheath opening.

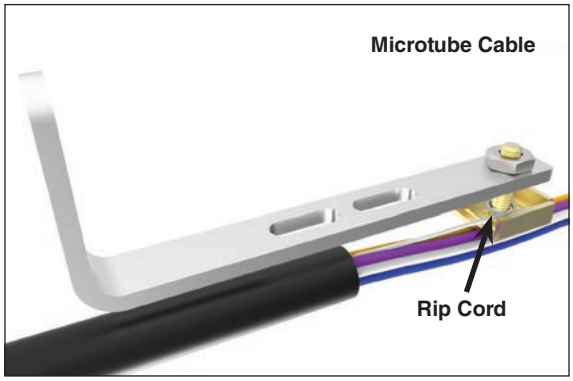


Step #9 Install the cap on the strength member bracket with the nut.



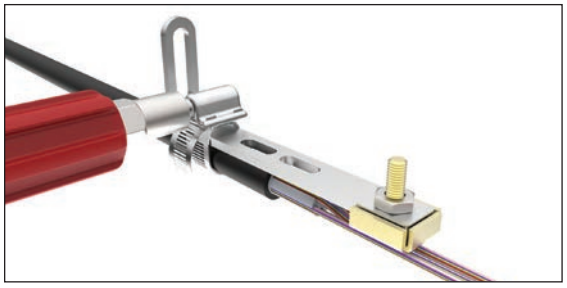
Step #10 Position the strength member or wrap the rip cord of the cable under the cap of the strength member bracket.





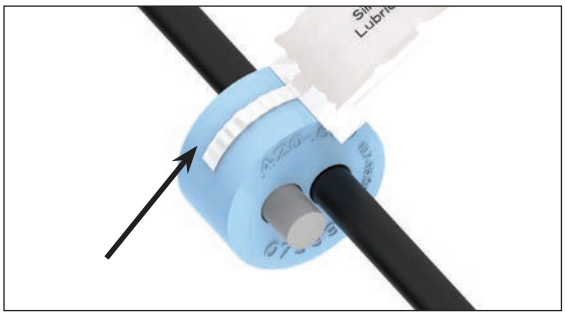
Step #11 Tighten the nut of the cap to secure the strength member or rip cord of the cable.

Step #12 Secure the cable to the strength member bracket with a hose clamp.

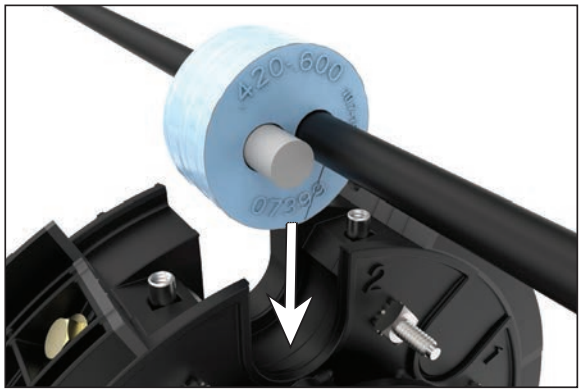


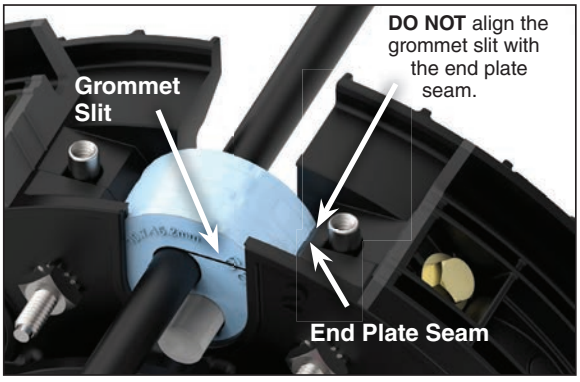
Grommet and Cable Installation in End Plate

Step #13 Lubricate the outer surface of the grommets with the silicone lubricant provided. Spread the lubricant evenly around the outer surface.

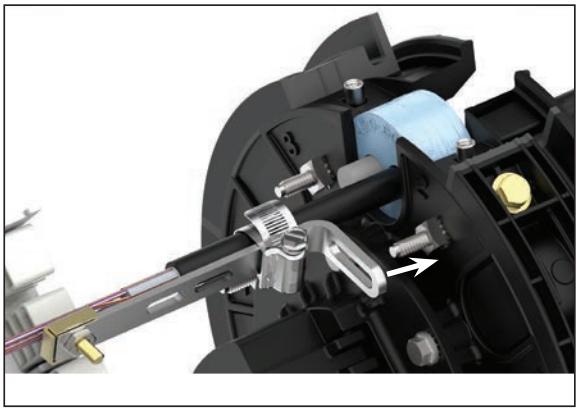


Step #14 Position the grommets in the end plate slots.

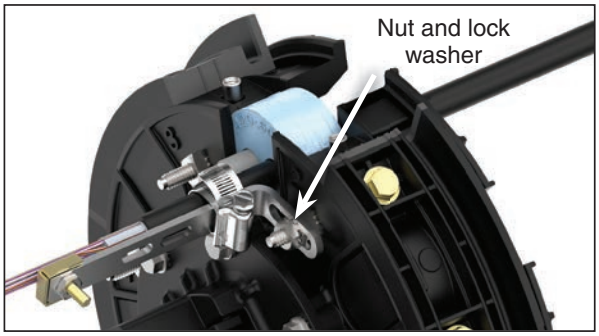




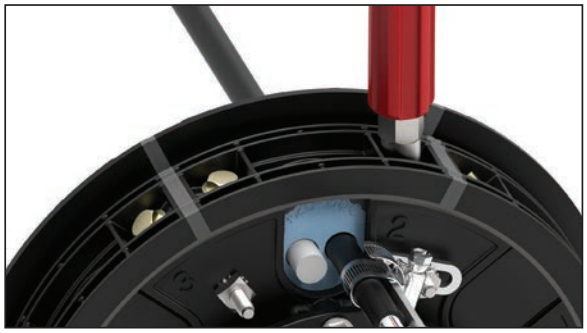
Step #15 Position the slot of the strength member bracket leg over the stud and pull back the cable.



Step #16 Install the strength member bracket on the stud. Install the lock washer and nut against the bracket, but do not tighten fully, so that the bracket can slide as the grommet is secured.



Step #17 Install the cable caps and secure with the hex bolts.



NOTES:

- **Tighten bolts by hand evenly until cable cap is fully seated (DO NOT USE POWER TOOLS TO TIGHTEN BOLTS).**
- **When using a can wrench or nut driver, the installed torque is 35 to 40 in-lbs.**
- **TIGHTEN ALL UNUSED CABLE CAPS.**

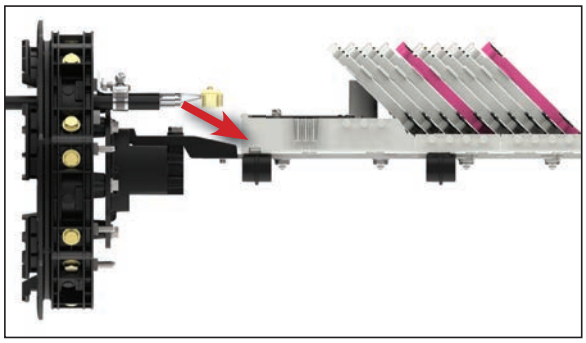
IMPORTANT: Tighten down the strength member bracket after the caps are tightened.

Step #18 Complete end plate assembly.

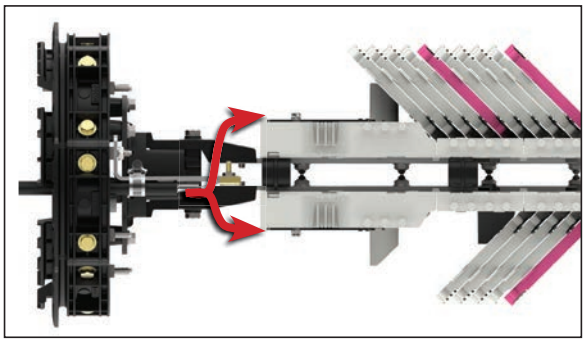
Routing Fiber Ribbons to Organizer

Step #19 Route the fiber ribbons to the storage tray(s).

96ct and 160ct Application



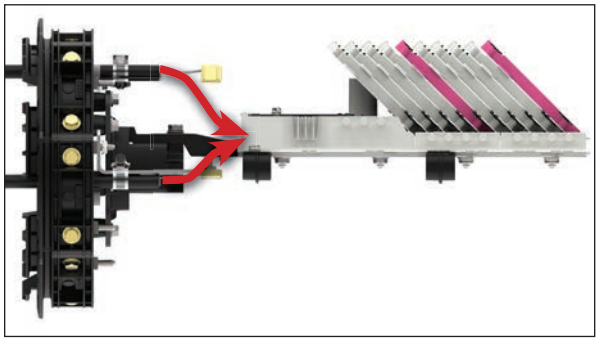
256ct Application



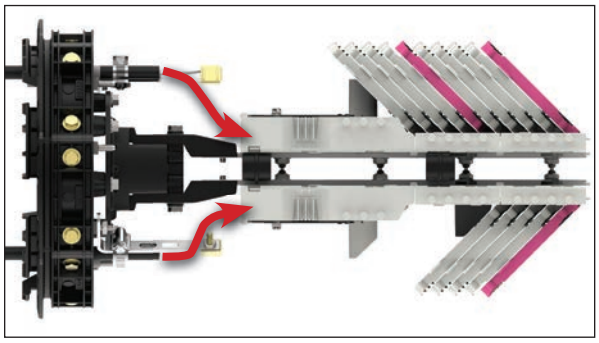
Routing Microtubes to Organizer

Step #20 Route the microtubes to the storage tray(s).

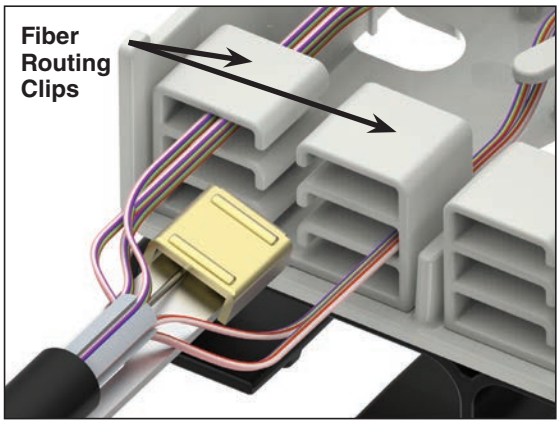
96ct and 160ct Application



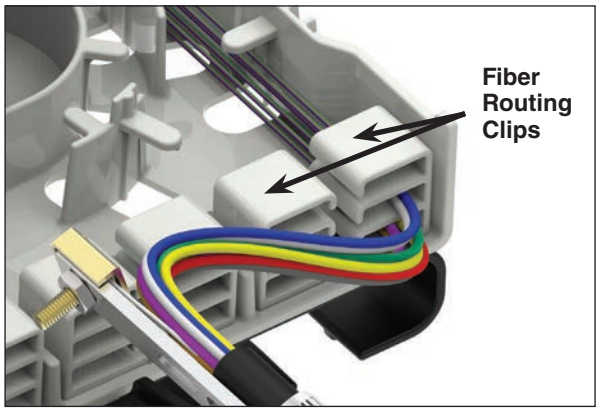
256ct Application



Step #21 Guide the fiber ribbons through the fiber routing clips of the storage tray.



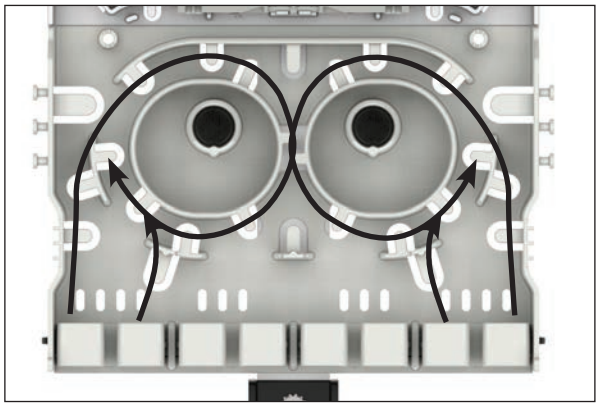
Step #22 Secure the microtubes in the fiber routing clips of the storage tray.



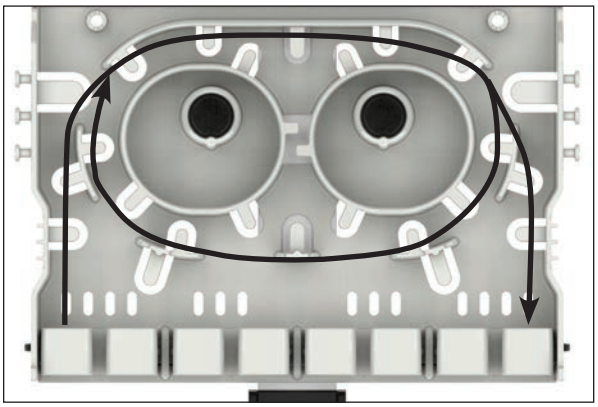
PLP Tip: Wrap the felt around the end of each microtube to help retain the microtube in the fiber routing clip.

Routing Fiber in Dark Fiber Support Module

Step #23 Route the dark fiber in the storage area as shown below.

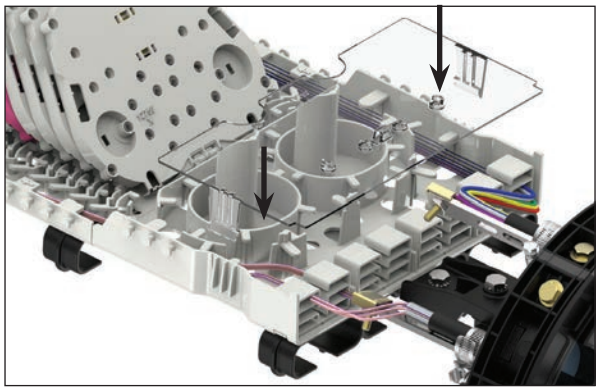


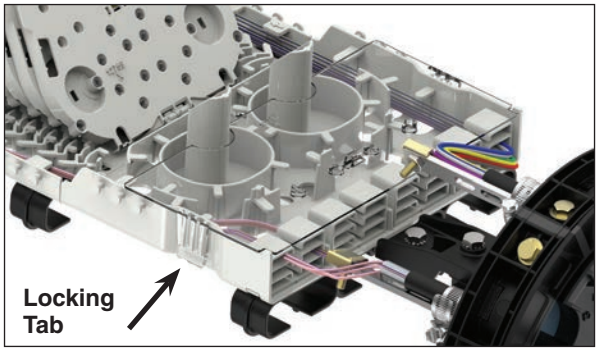
Step #24 For expressed fiber applications, route expressed fiber in the stroage area as shown below.



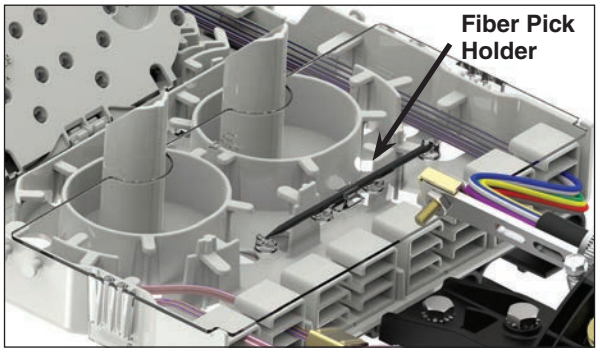
Dark Fiber Support Module Cover Installation

Step #25 Place the cover over the storage module and push down on it to snap the locking tabs of the cover into place.



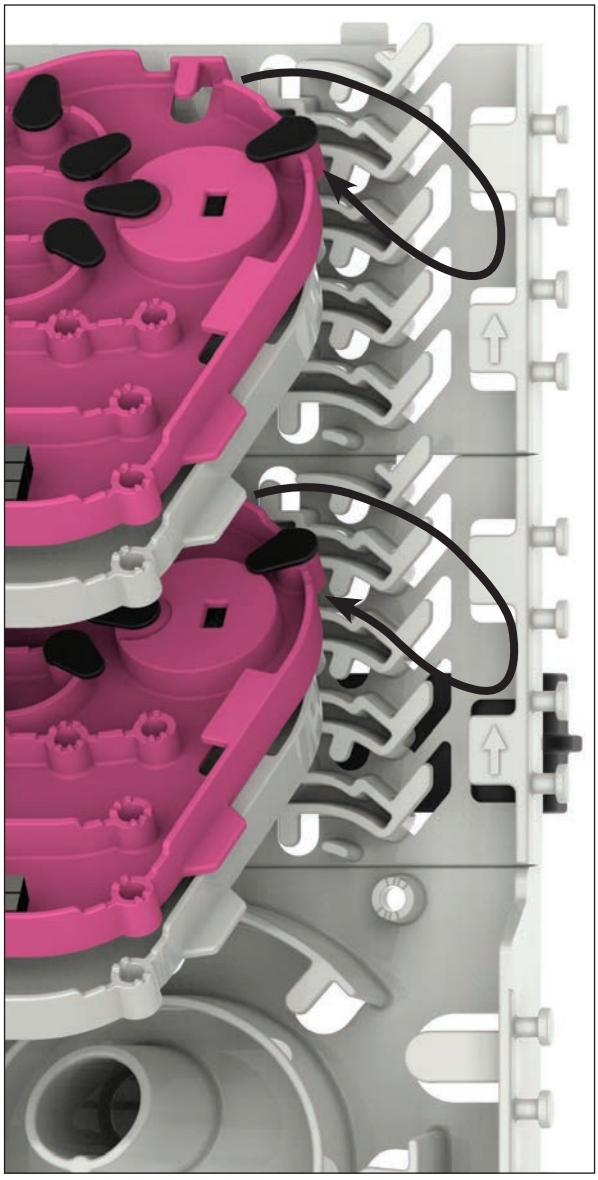


PLP Tip: The fiber pick can be stored in the holder located on top of the cover.

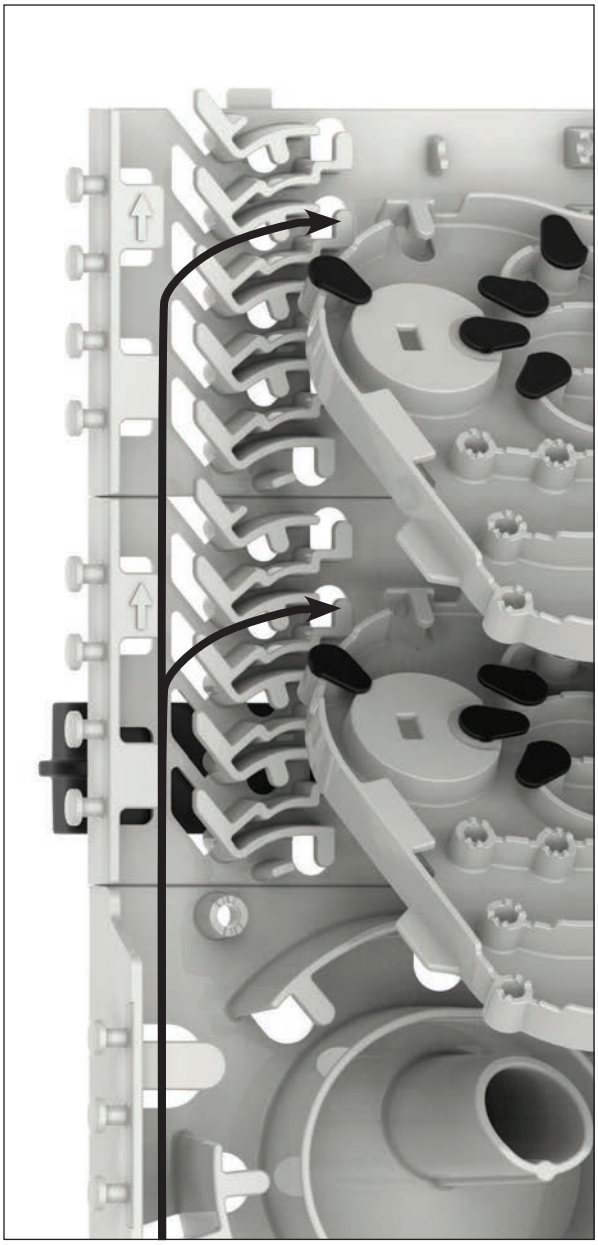


Routing Fiber to Splice Trays

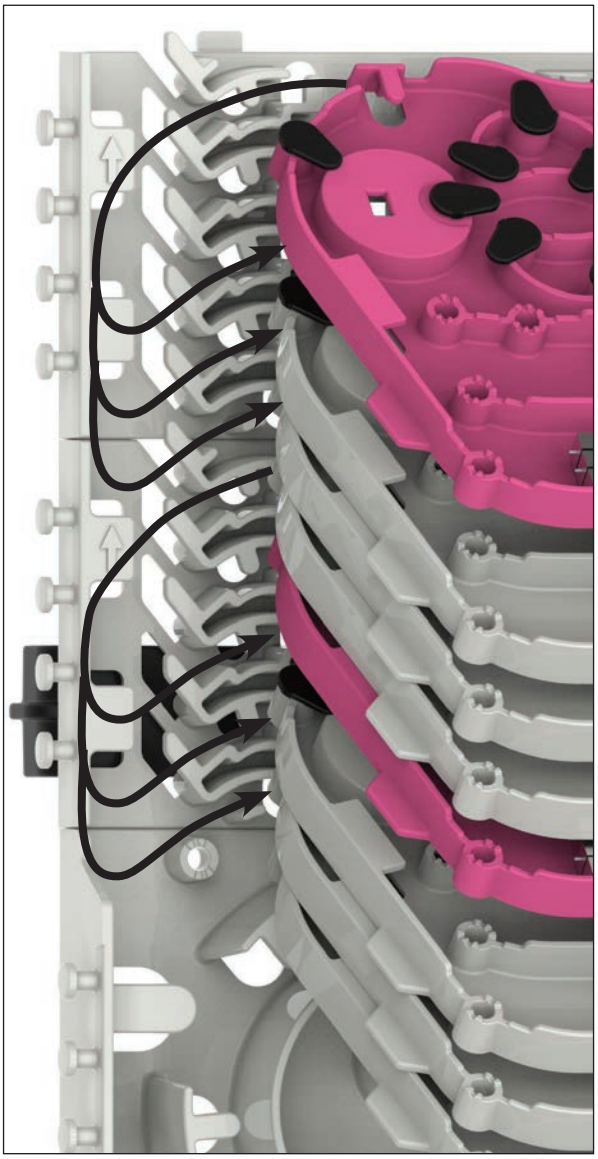
Step #26 Route the input fibers of the splitters from the splitter trays to the 24ct single fusion single element splice trays as shown below.



Step #27 Route the fibers to be spliced to the splitter input, up to the 24ct single fusion trays, as shown below.

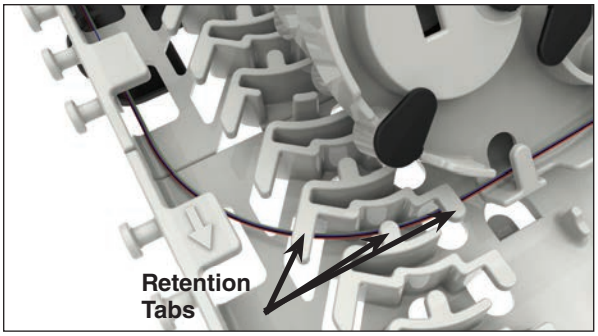


Step #28 Route the output legs of the splitters from the splitter trays to the 8ct mass fusion/ ribbon these fibers will be spliced to the customer service drops trays, as shown below.



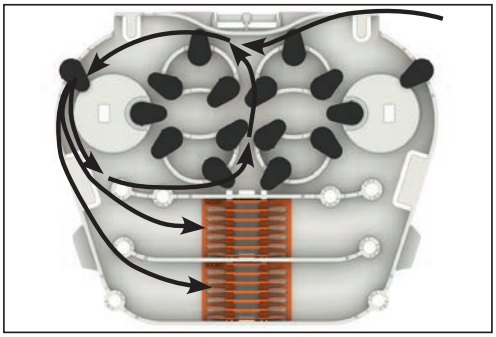
Step #29 Route the outgoing fibers for the customer service drops, up to the 8ct mass fusion/ribbon trays, as shown below.

Step #30 Make sure that the fibers are secured underneath the retention tabs of each channel when routing the fibers(s) onto the tray.



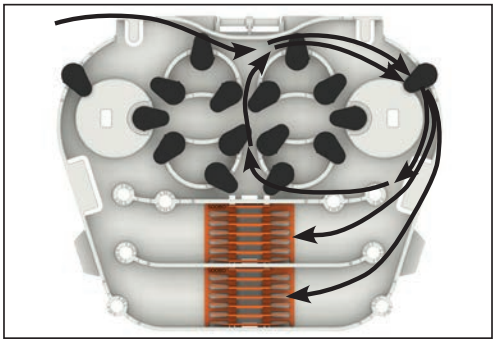
Routing of the Splitter Input on 24ct Single Fusion Tray

Step #31a



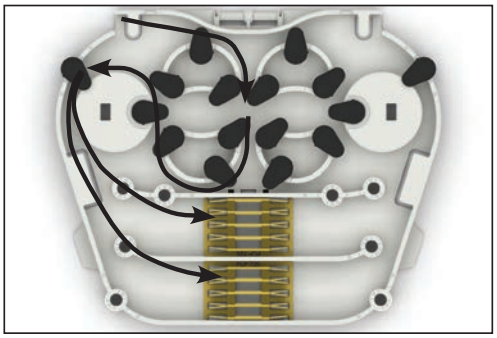
Routing of Fiber to be Spliced to the Splitter Input

Step #31b



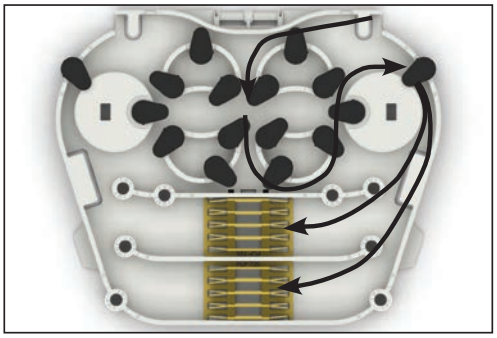
Fiber Routing for Splitter Output Legs on 8ct Mass Fusion Ribbon Tray

Step #31c



Fiber Routing for Customer Service Drops on 8ct Mass Fusion Ribbon Tray

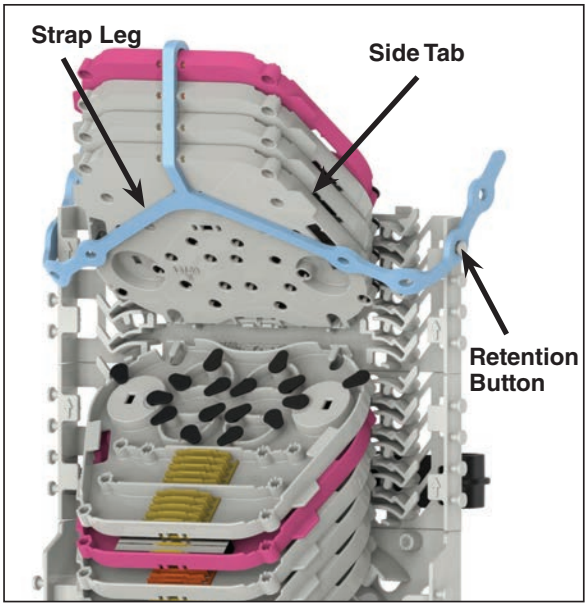
Step #31d



Step #32 Splice the incoming fibers to the input fibers of the splitter per your accepted company practice. Splice the outgoing fibers to the output fibers of the splitter per your accepted company practice.

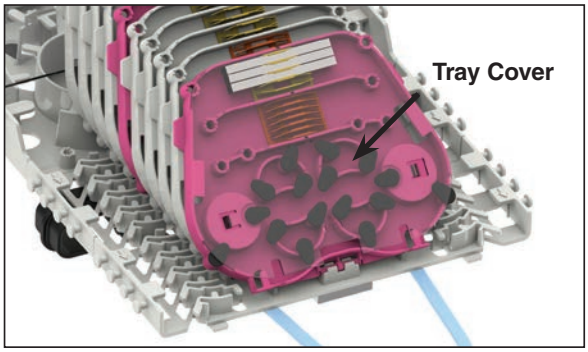
Supporting Splice Trays for Tray Access

Step #33 Pull the strap over the trays and wrap the legs of the strap under the last raised tray of the stack. Make sure that each leg is wrapped behind the side tabs of the tray before securing them to the side retention buttons as shown below.

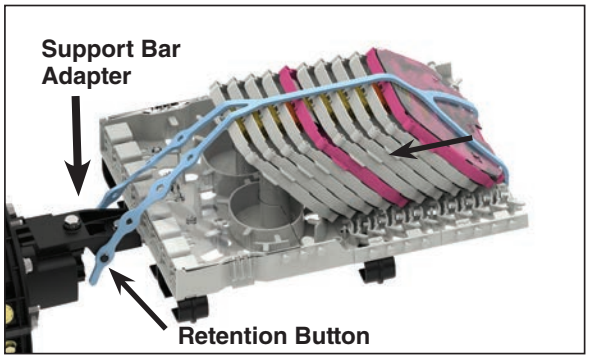


Securing Splice Trays

Step #34 Place the tray cover on the top tray of the stack and push down on it to snap the locking tabs of the cover into place.

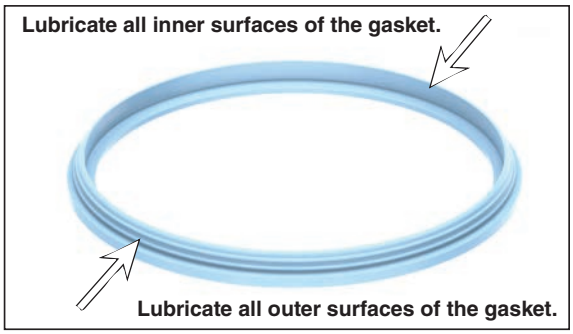


Step #35 Pull the retention strap over the trays and secure the legs of the strap to the retention buttons on the side of the support bar adapter.

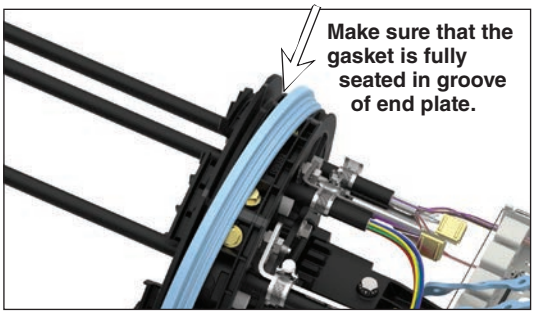


Dome Preparation and Installation

Step #36 Lubricate all surfaces around the gasket with silicone lubricant to assure easy assembly and closure re-entry.

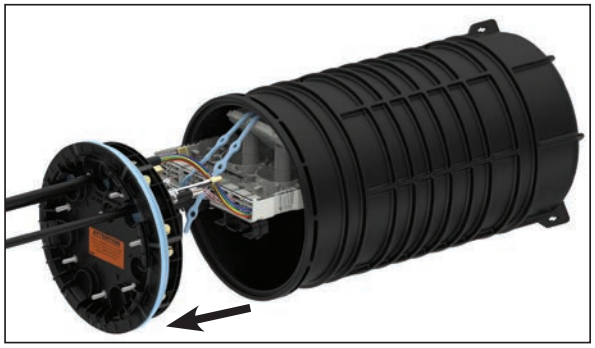


Step #37 Slide the end plate gasket onto the end plate and press into the groove of the end plate.

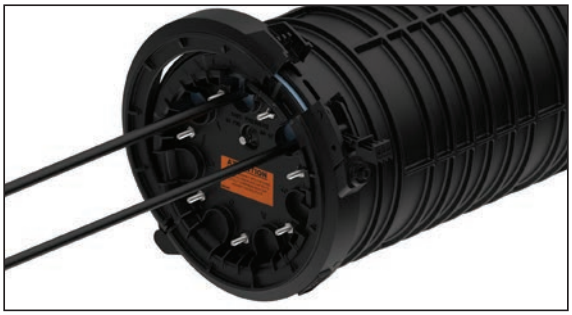


Step #38 Re-tighten all cable cap bolts (Step #17) to assure that the cable caps are fully seated. When using a can wrench or nut driver, the installed torque is 35 to 40 in-lbs.

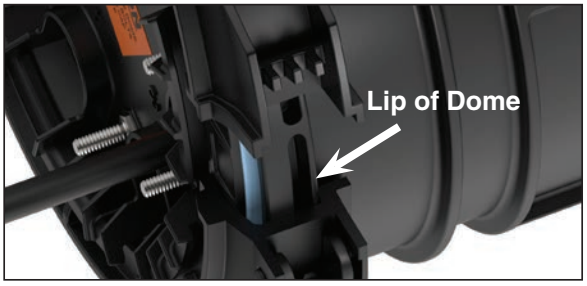
Step #39 Position the dome over the end plate.



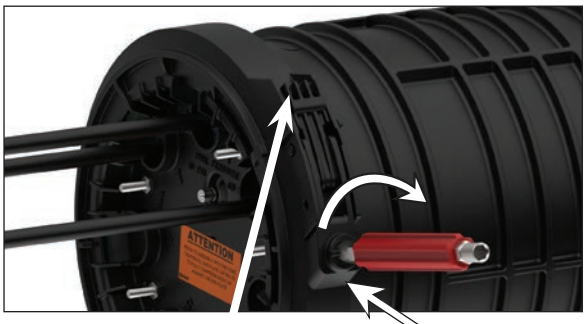
Step #40 Install the dome collar.



Step #41 Make sure that the lip of the dome is captured underneath the collar before securing the latch.



Step #42 Lock the collar by twisting the latch fastener clockwise 90 degrees.



CAUTION: Do not fasten latch until collar is completely installed in the correct position or damage to the latch may occur.

Flash Test Procedure

Step #43 Remove the cap from the air valve of the end plate.

Step #44 Pressurize closure up to a max of 10psi.

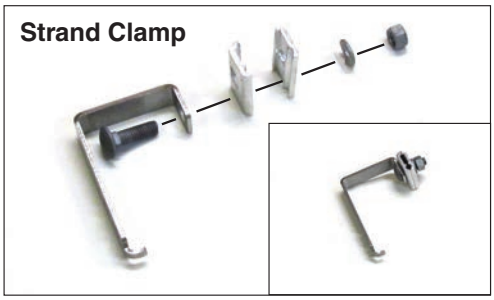
Step #45 Spray all sealing surfaces of the dome end plate with a soap/water solution to determine if there are any leaks.

Step #46 Release the pressure in the closure by using the bump on the top of the air valve cap.

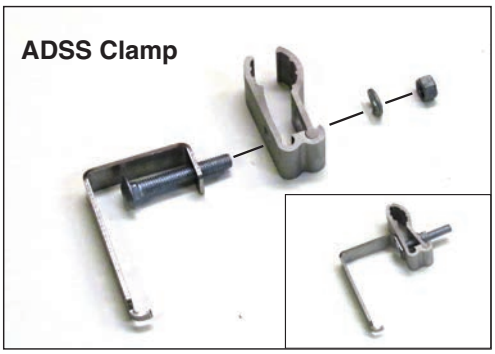
Aerial Mounting Options

Step #47a **For COYOTE® 9.5" Dome Strand Mount Aerial Offset Bracket Kit (PLP Cat.#: 8004037) and 9.5" Dome ADSS Mount Aerial Offset Bracket Kit (PLP P/N: 8004038).** Assemble each bug nut or ADSS clamp to each top aerial offset bracket as shown below.

Strand Clamp

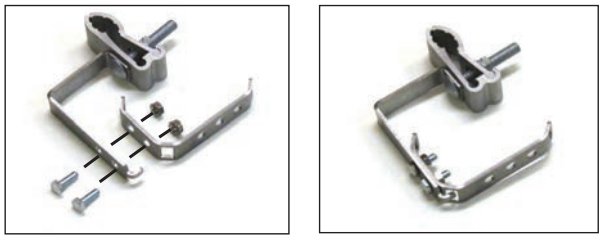


ADSS Clamp

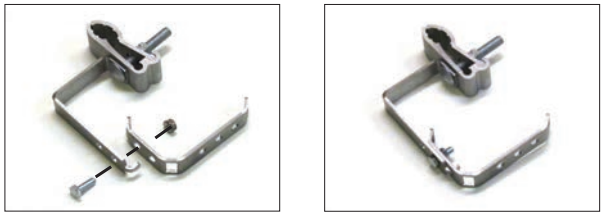


Step #47b

For Shorter Spacing. Align the top aerial offset bracket with the bottom aerial offset bracket in either Position 1 or Position 2 as shown below. Secure the top aerial offset bracket to the bottom aerial offset bracket with the bolts and keps nuts provided.



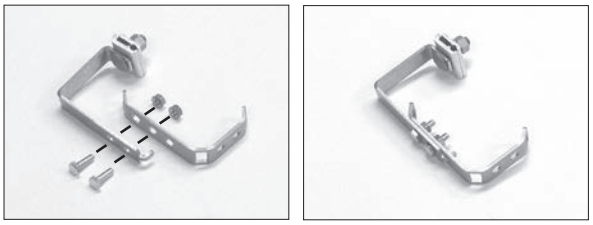
Position 1 – ADSS Clamp Shown



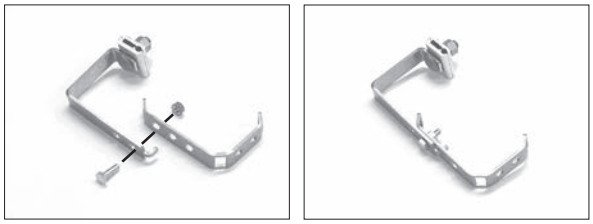
Position 2 – ADSS Clamp Shown

Step #47c

For Taller Spacing. Align the top aerial offset bracket with the bottom aerial offset bracket in either Position 1 or Position 2 as shown below. Secure the top aerial offset bracket to the bottom aerial offset bracket with the bolts and keps nuts provided.

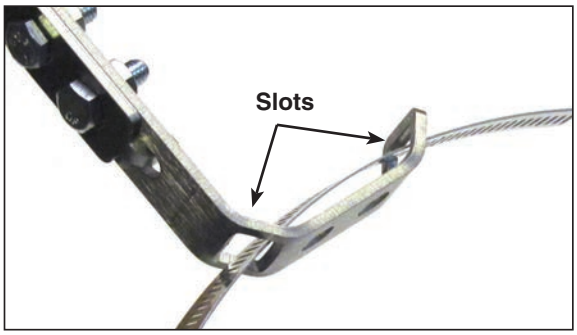


Position 1 – Strand Clamp Shown



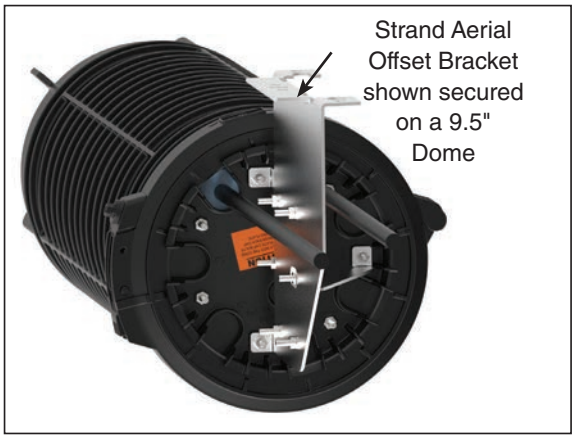
Position 2 – Strand Clamp Shown

Step #48 Insert a hose clamp through the slots in each of the bottom aerial offset brackets.



Step #49 Attach a second hose clamp to each hose clamp with the mounting bracket on it and tighten each pair of hose clamps around the dome in the banding slots.

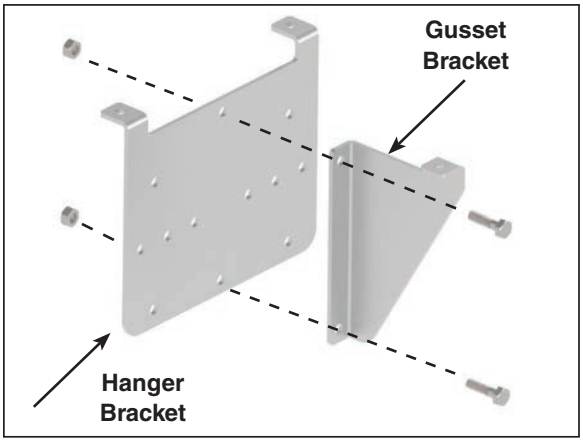
Step #50 Bracket installed on the dome closure, shown below.



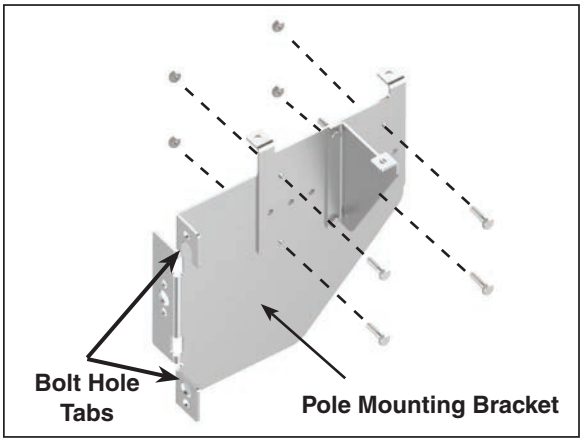
Pole/Wall Mounting Option

Step #51 **For COYOTE® 9.5" Dome Pole/Wall Mount Bracket (PLP Cat. #: 8003942).**

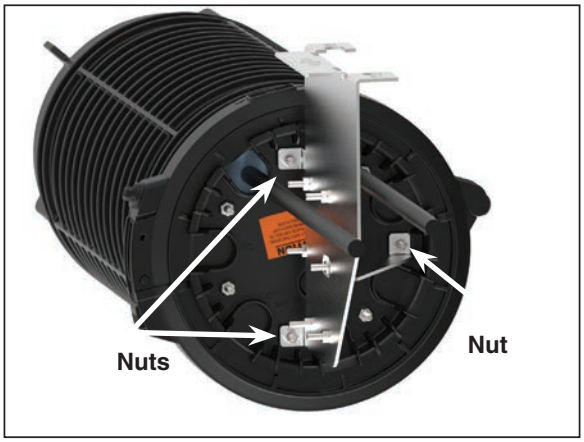
Secure the gusset bracket to the hanger bracket with the bolts and nuts provided as shown below.



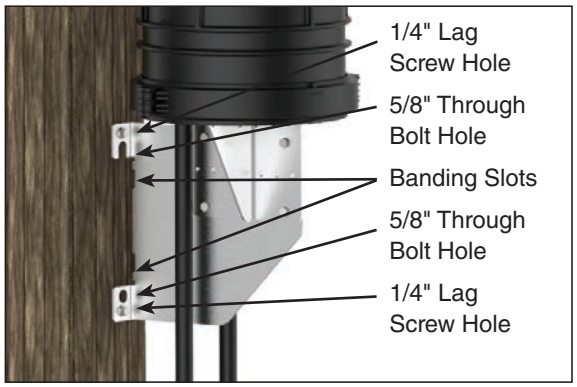
Step #52 Attach the hanger bracket to the pole mounting plate with the gusset side facing the same side as the bolt hole tabs of the pole mounting bracket.

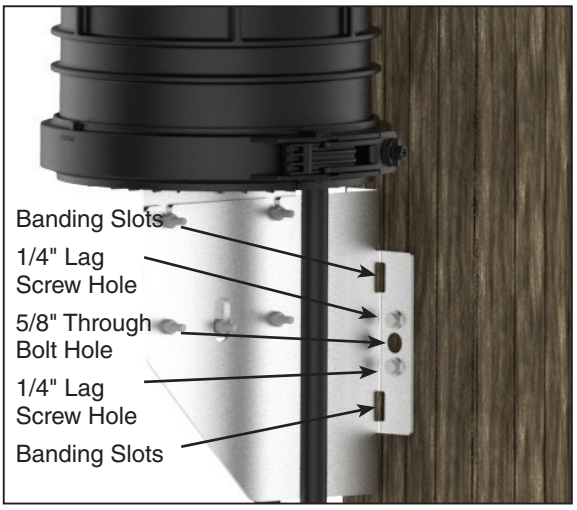


Step #53 Install the pole/wall mount bracket assembly on to the grounding studs of the end plate of the closure and secure it to the end plate with the three nuts that are provided.



Step #54 Attach the dome pole mounting plate to a pole or a wall with either 5/8" through bolts, 1/4" lag screws, or banding.





SAFETY CONSIDERATIONS

This application procedure is not intended to supersede any company construction or safety standards. This procedure is offered only to illustrate safe application for the individual. **FAILURE TO FOLLOW THESE PROCEDURES MAY RESULT IN PERSONAL INJURY OR DEATH.**

Do not modify this product under any circumstances.

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.

For proper performance and personal safety, be sure to select the proper size PREFORMED™ product before application.

PREFORMED products are precision devices. To insure proper performance, they should be stored in cartons under cover and handled carefully.

PREFORMED LINE PRODUCTS

P.O. Box 91129, Cleveland, Ohio 44101 • 440.461.5200 • www.preformed.com • e-mail: inquiries@preformed.com