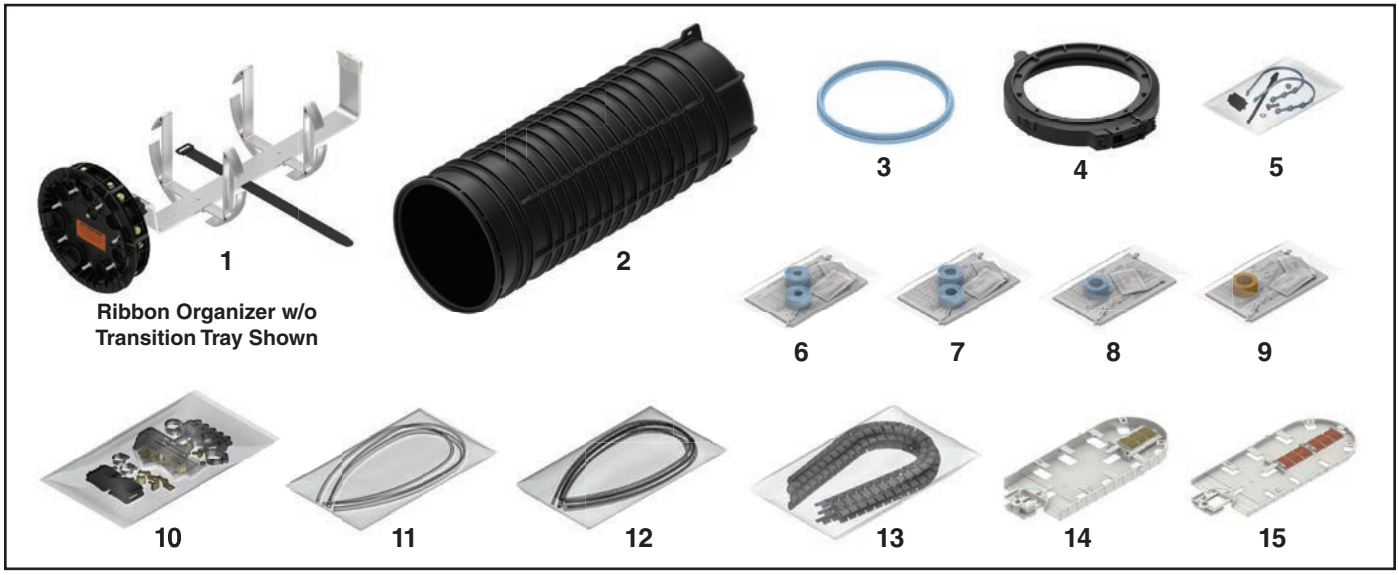
COYOTE® Dome Closure 9.5" x 28" without Transition Tray for High Density Splice Applications

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



Ribbon Organizer w/o Transition Tray Shown

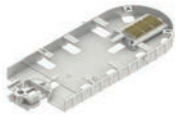
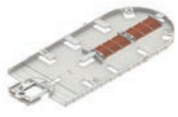
NOMENCLATURE

1. End Plate with HD Organizer - (1)
2. Dome Cover (1)
3. Dome Gasket (1)
4. Dome Collar (1)
5. HD Closure Small Parts Bag (1)
6. 1 Hole Grommet Kit (0 or 2) (.60" – .85" Cable Range)
7. 1 Hole Grommet Kit (0 or 2) (.85" – 1.0" Cable Range)
8. 1 Hole Grommet Kit (0 or 2) (1.0" – 1.25" Cable Range)
9. 1 Hole Grommet Kit (0 or 2) (1.25" – 1.38" Cable Range)
10. Small Parts Bag (1)
11. Transition Tube Kit - Ribbon Organizers ONLY (1)
12. Transport Tube Kit - Ribbon Organizers ONLY (1)
13. Spiral Wrap Tube Kit Ribbon Organizers ONLY (1)
14. Ribbon Splice Tray - Deep (Order Separately)
15. Single Fusion Splice Tray - Thin (Order Separately)

TOOLS REQUIRED

- 3/8" & 7/16" Can wrench or socket wrench
- Side Cutters
- Snips
- Fiber optic cable opening tools

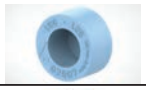
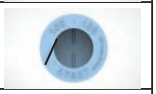
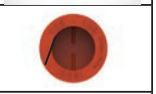
COYOTE Splice Tray Capacity Chart for COYOTE Dome Closure 9.5" x 28" High Density Splice Applications

PLP Catalog Number	Description	Image	Splice Type	Max Trays per Closure	Closure Max Splice Capacity
80813121	Long Deep Profile Ribbon Flip Tray (288ct)		Mass Fusion/ Ribbon	With Deep Transition Tray - 3 With Standard Transition Tray - 4 Without Transition Tray - 6	With Deep Transition Tray - 864 With Standard Transition Tray - 1,152 Without Transition Tray - 1,728
80813122[1]	Long Thin Profile Ribbon Flip Tray (288ct)		Mass Fusion/ Ribbon	With Deep Transition Tray - 6 With Standard Transition Tray - 8 Without Transition Tray - 12	With Deep Transition Tray - 1,728 With Standard Transition Tray - 2,304 Without Transition Tray - 3,456
808013123	Long Thin Profile Single Fusion Flip Tray (72ct)		Single Fusion (Double Stack)	With Deep Transition Tray - 6 With Standard Transition Tray - 8 Without Transition Tray - 12 With Buffer Tube Organizer - 8	With Deep Transition Tray - 432 With Standard Transition Tray - 576 Without Transition Tray - 864 With Buffer Tube Organizer - 576
808013301	Long Thin Profile Single Fusion Flip Tray (108ct)		Single Fusion (Double Stack)	With Deep Transition Tray - 6 With Standard Transition Tray - 8 Without Transition Tray - 12 With Buffer Tube Organizer - 8	With Deep Transition Tray - 648 With Standard Transition Tray - 864 Without Transition Tray - 1296 With Buffer Tube Organizer - 864

[1]The 80813122 thin-profile splice tray can only be used for cables that contain SpiderWeb Ribbon (SWR®) – AFL, Rollable Ribbon (RR) – OFS, Pliable Ribbon – Sumitomo, or FlexRibbon™ – Prysmian.

PLP Catalog Number	Description
COYOTE® Dome Closure 9.5" x 28" Kits for High Density Splice Applications	
80061406	COYOTE Dome Closure 9.5'' x 28'' without Transition Tray for cables under 1.25'' diameter. Includes (2) 1 Hole Grommet Kit - Cable Range .85''-1.00'' & (2) 1 Hole Grommet Kit - Cable Range 1.00''-1.25''
80061407	COYOTE Dome Closure 9.5'' x 28'' with Transition Tray for cables under 1.25” diameter. Includes (2) 1 Hole Grommet Kit - Cable Range .85''-1.00'' & (2) 1 Hole Grommet Kit - Cable Range 1.00''-1.25''
80061408	COYOTE Dome Closure 9.5'' x 28'' without Transition Tray for cables over 1.25'' diameter. Includes (2) 1 Hole Grommet Kit - Cable Range 1.0''-1.25'' & (2) 1 Hole Grommet Kit - Cable Range 1.25''-1.38''
80061409	COYOTE Dome Closure 9.5" x 28" with Transition Tray for cables over 1.25" diameter. Includes (2) 1 Hole Grommet Kit - Cable Range 1.0”-1.25" & (2) 1 Hole Grommet Kit - Cable Range 1.25"-1.38"
80061488	COYOTE Dome Closure 9.5" x 28" with Buffer Tube Organizer for cables under 1.25" diameter. Includes (2) 1 Hole Grommet Kit - Cable Range .60"-.85" & (2) 1 Hole Grommet Kit - Cable Range .85"-1.0"
Accessory Kits for COYOTE Dome 9.5" x 28" Closures	
80061500	Breakout Kit for Unitube Ribbon Applications
80813267	Deep Metal Transition Tray Kit for up to 864 Fiber Expressed Ribbon Applications
80807991	100ft. Roll of .25" ID Tubing
80812618	Pack of (4) 18" Long Pieces of .25" ID Tubing
80807571	6ft. Long Piece of .375” O.D. Spiral Wrap Tubing
80805066-6	6ft. Long Piece of .625" O.D. Spiral Wrap Tubing
80812881	100ft. Roll of .625'' O.D. Spiral Wrap Tubing
800015235	Replacement End Plate for the COYOTE Dome Closures 9.5" x 19" and 9.5" x 28"
80812608	Closure O-Ring Sealing Gasket for the COYOTE Dome Closures 9.5" x19" and 9.5" x 28"
80808528-1	Latching Collar for the COYOTE Dome Closures 9.5" x 19" and 9.5" x 28"
800015236	Strength Member Bracket Kit – Includes 3 Long L-Brackets and 3 Hose Clamps
80808651	Strength Member Bracket Kit – Includes 4 Long L-Brackets
80809205	Strength Member Bracket Kit – Includes 2 Short L-Brackets
80813124	Splice Tray Locking Pin Kit. Includes (5) Tray Locking Pins
80813125	Splice Tray Tether Kit. Includes (6) Splice Tray Tether Straps
80811036	6 Position Bobbin Kit for Retaining Drop Cables
COYEPFIX1	COYOTE Dome End Plate Fixture
80061201	Bonding Plate for 9.5" Dome End Plate
Mounting Brackets for COYOTE Dome 9.5" x 28" Closures	
8004037	Aerial Adjustable Offset Mounting Bracket (Dome Mount) - Strand Applications
8004038	Aerial Adjustable Offset Mounting Bracket (Dome Mount) - ADSS Applications
8003942	Pole/Wall Mounting Bracket
8004003	Manhole Support

COYOTE Grommet Chart for COYOTE Dome Closure 9.5" x 28" for High Density Splice Applications

PLP Catalog Number	Cable Range Inches (mm)	Description	Image	Slitting Location
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		
*8004145	1.25'' - 1.38'' (32 - 35 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		
8003677	.125" - .25" (3 - 6 mm)	8-entry grommet		N/A

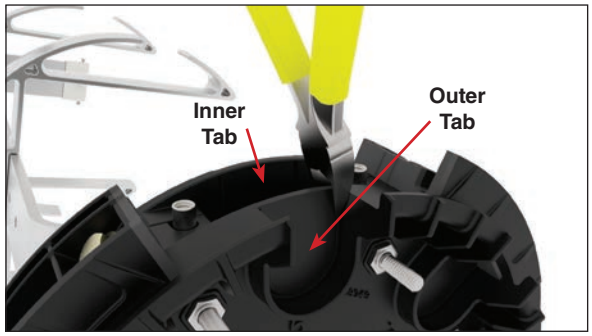
*8004145 Grommet can only be used in ports 3 and 6.

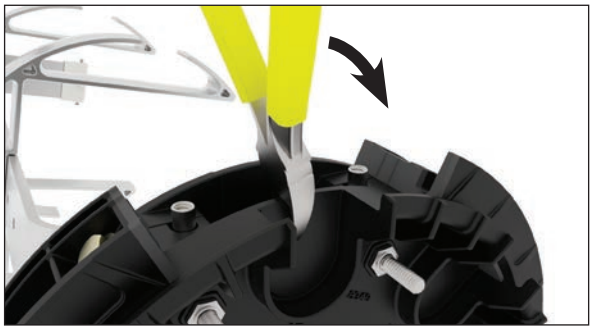
END PLATE PREPARATION

Step #1 Determine which cable ports will be used and mark the respective breakout tabs of the end plate.

NOTE: For expressed buffer tube ribbon cables, use cable ports 3 and 6. For expressed buffer tube single fiber cables, use cable ports 4 and 5. Use all other cable ports for branch or drop cables if required.

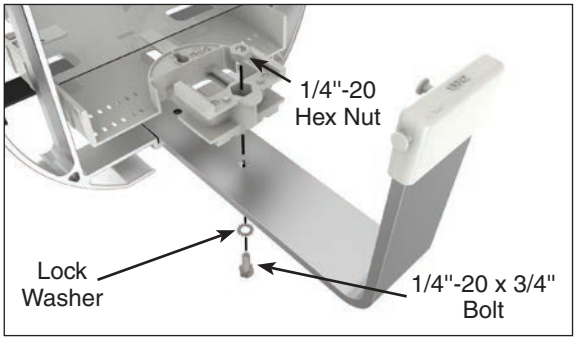
Step #2 Remove the end plate caps from the selected cable ports. Break out the outer and inner tabs of each cable port by snipping the grooves on both sides of each tab with side cutters. Once the grooves have been snipped, remove each tab by pulling the tab outwards from the end plate.





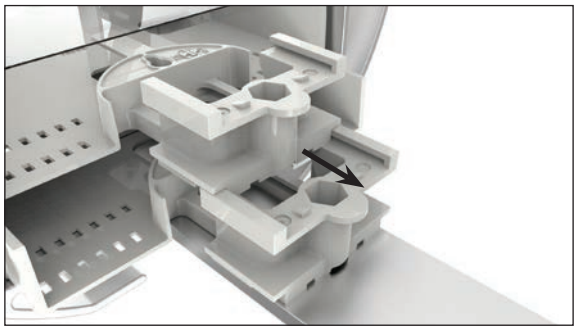
INSTALLING SPLICE TRAY TO ORGANIZER (RIBBON ORGANIZERS ONLY)

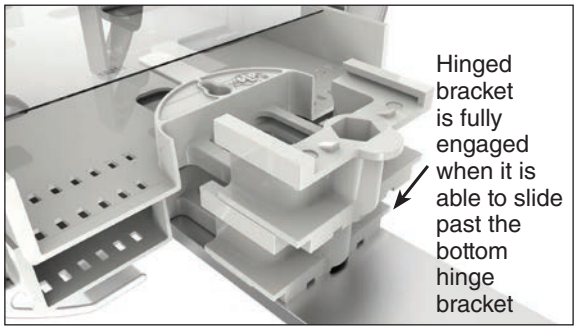
Step #3 Install the hinge bracket to the organizer bar with the 1/4"-20 x 3/4" bolt, lock washer, and 1/4"-20 hex nut that are provided in the HD closure small parts bag.



INSTALLATION OF THE SPLICE TRAYS

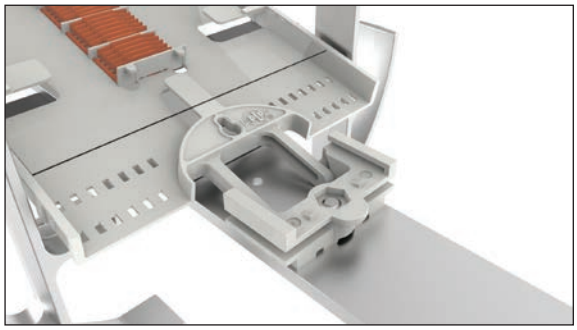
Step #4a Slide the hinge bracket of the splice tray into the slots of the hinge bracket of the previous splice tray until it is fully engaged.



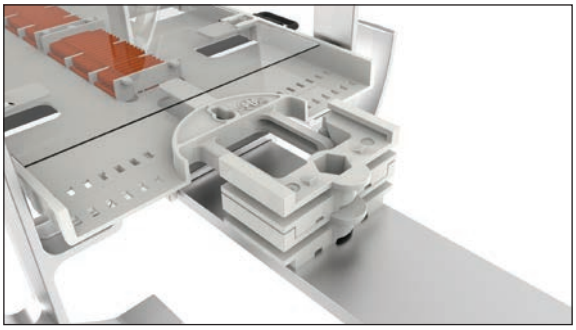


Step #4b **IMPORTANT NOTE:** For buffer tube organizers, do NOT install a splice tray in the hinge bracket mounted to the organizer bar. This bracket is used as a spacer.

INCORRECT INSTALLATION

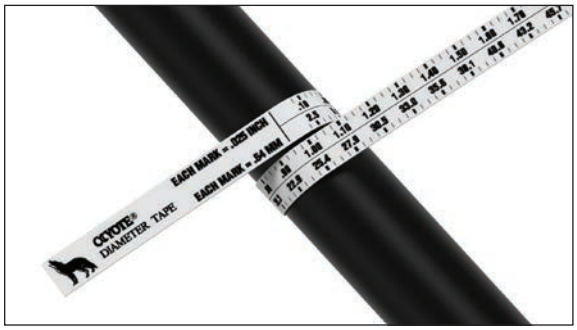


CORRECT INSTALLATION

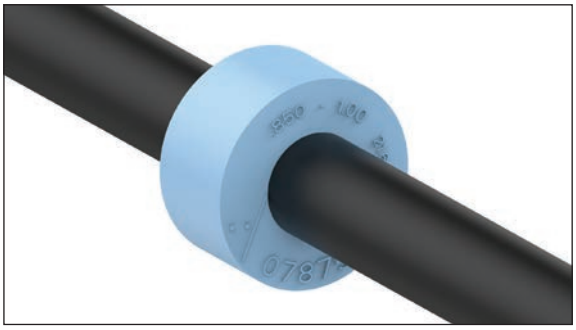


GENERAL CABLE PREPARATION

Step #5 Measure the cable to determine the diameter and hole location to use in the grommet.



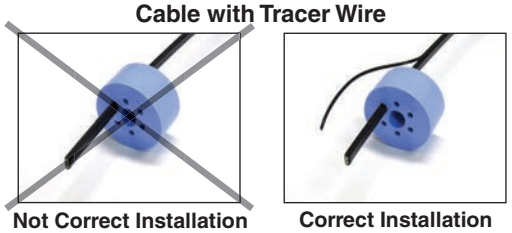
Step #6 If using cut cable, insert the cable through the grommet. If your application requires express/balloon/ring cut cables, **see Step 8 for the grommet slitting procedure.**



Step #7 **Installing Figure 8 Style Cables and Cables with Tracer Wires**

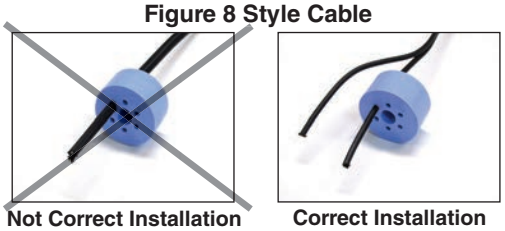
Remove tracer wire or ground wire from the portion of the cable that will be positioned in the grommet and insert cable into the grommet. Remove any burrs left on the cable caused by separating the tracer wire from the sheath.

Cable with Tracer Wire



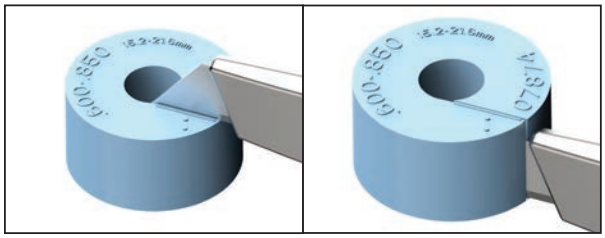
Not Correct Installation — Correct Installation

Figure 8 Style Cable

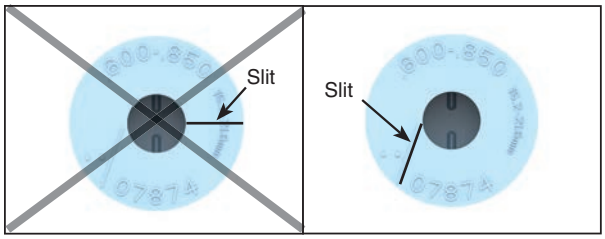


Not Correct Installation — Correct Installation

Step #8 **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.**

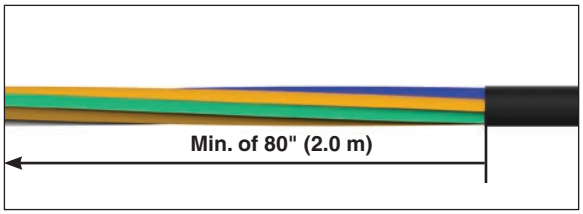


PLP Tip: Use a pen to sketch slitting lines on top surface of grommet prior to cutting.



Not Correct Slitting Angle **Correct Slitting Angle**

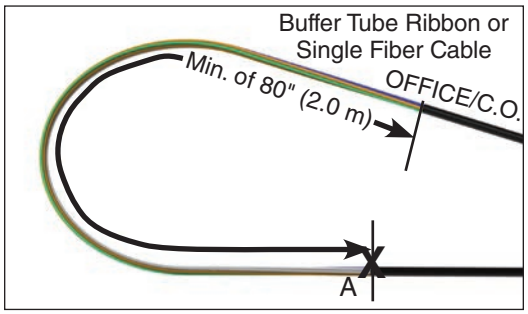
Step #9 Prepare buffer tube ribbon or single fiber cable(s) and unitube ribbon cable(s) for cut applications.



Minimum Sheath Opening for Cut Cable Applications	
80"	2.0 m

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

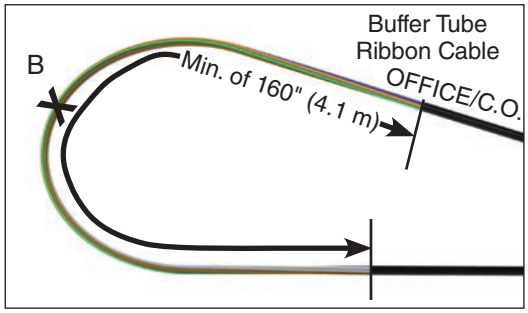
Step #10a Prepare buffer tube ribbon or single fiber cable(s) for mid sheath applications (Express/Balloon/Ring Cut).

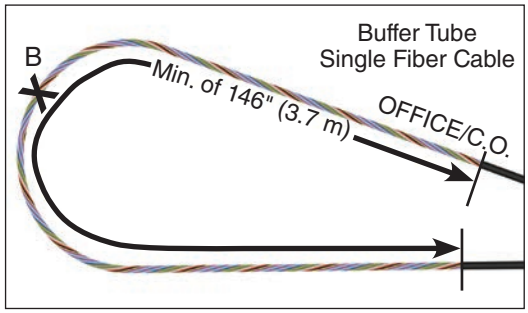


For Applications Where Fiber is Dedicated to the Splice Point		
Configuration	Cut Location	Sheath Opening
Buffer Tube Ribbon or Single Fusion Expressed (Mid-Sheath)	A	Min of 80" (2.0 m)

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

Step #10b Prepare buffer tube ribbon or single fiber cable(s) for mid sheath applications (Express/Balloon/Ring Cut).



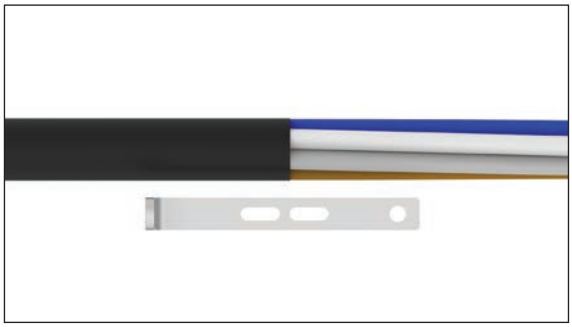


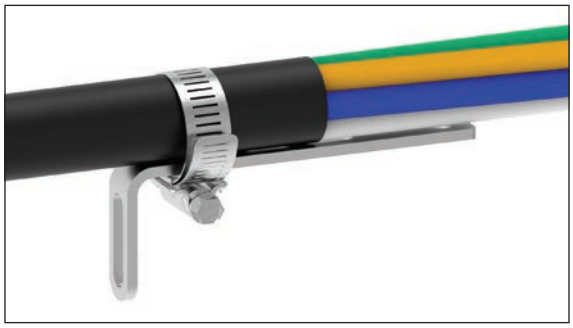
For Applications Where Fiber is NOT Dedicated to the Splice Point		
Configuration	Cut Location	Sheath Opening
Buffer Tube Ribbon Expressed (Mid-Sheath)	B	Min of 160" (4.1 m)
Buffer Tube Single Fiber Expressed (Mid-Sheath)	B	Min of 146" (3.7 m)

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

BUFFER TUBE RIBBON CABLE PREPARATION

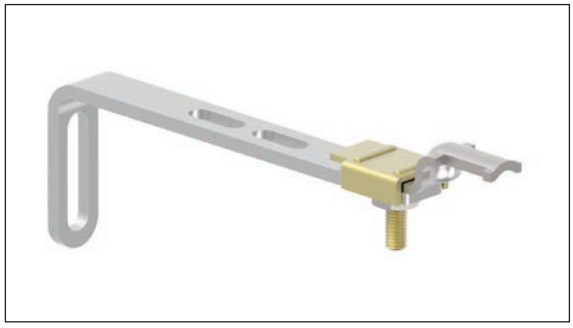
Step #11 Align the sheath opening with the end of the slot of the strength member bracket as shown below and secure the cable to the bracket with the hose clamp provided.



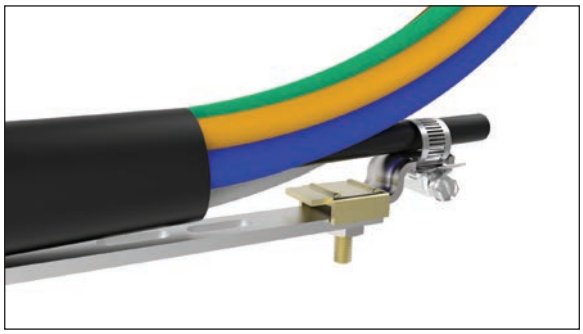


OPTIONAL - Securing Cable Strength Member to Strength Member Bracket

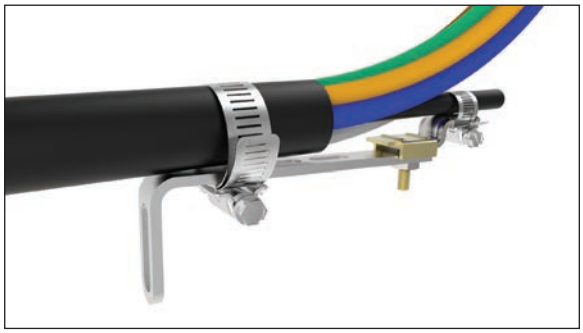
Step #12 Assemble the adapter to the bracket as shown below.



Step #13 Trim the large strength member 1/2" (12.7 mm) past the end of the adapter. Secure the cable strength member to the adapter with the small hose clamp provided.

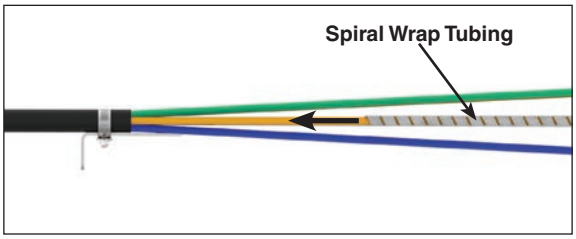


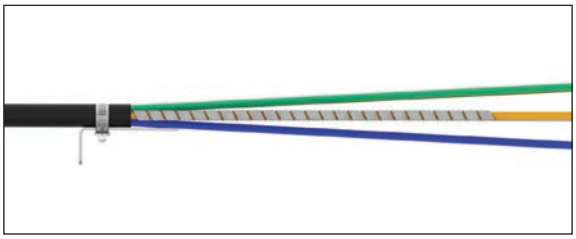
Step #14 Secure the cable to the strength member bracket with the hose clamp provided.



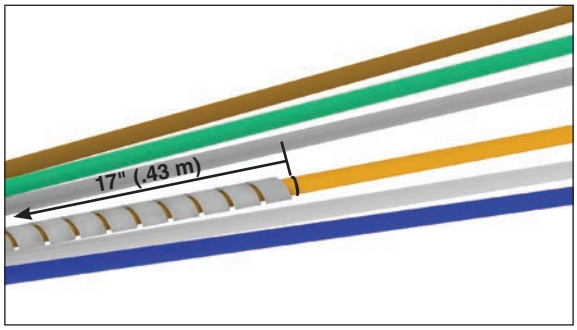
INSTALLATION OF SPIRAL WRAP TUBING

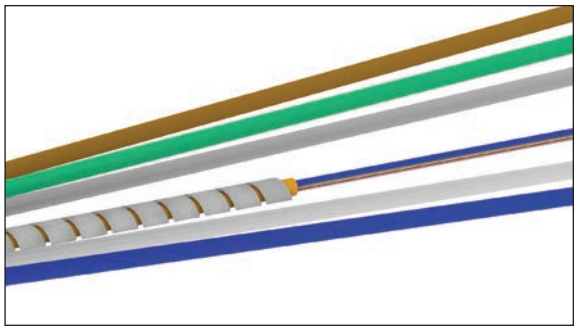
Step #15 Install a piece of spiral wrap tubing onto each buffer tube and slide it to the sheath opening of the cable.



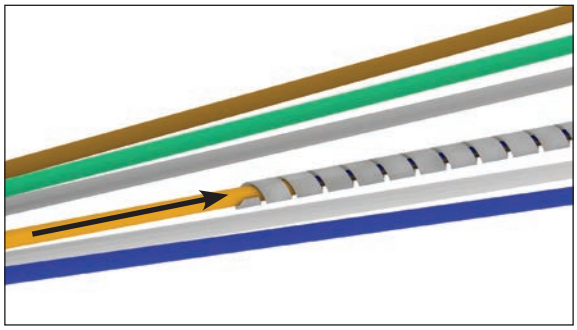


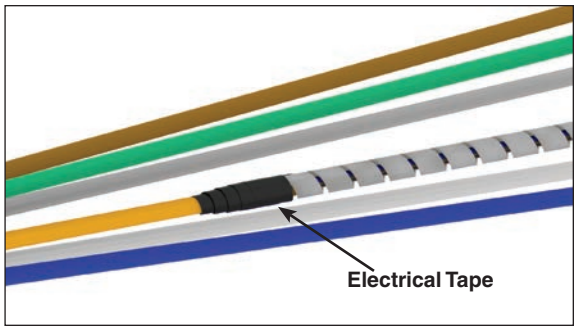
Step #16 Mark each buffer tube 17" (.43 m) away from the sheath opening and remove each buffer tube beyond the mark.





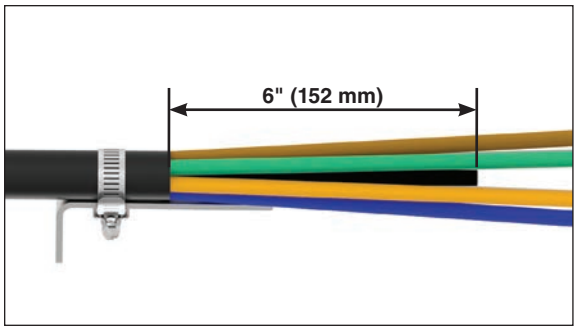
Step #17 Slide each piece of spiral wrap tubing over the ribbon fibers of the buffer tubes. Secure the spiral wrap tubing to each buffer tube with a piece of electrical tape as shown below.



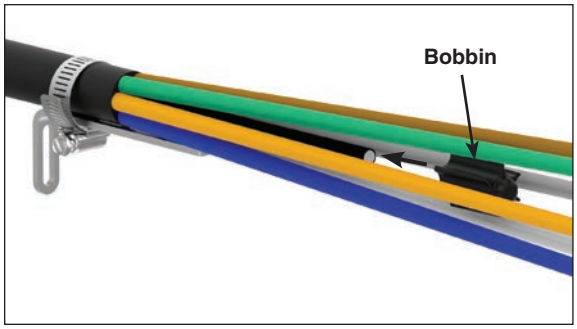


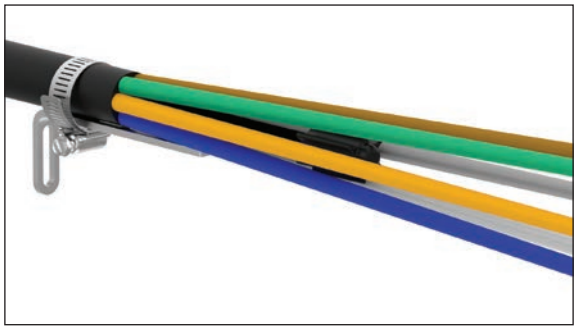
Securing the Cable Strength Member with Strength Member Bobbin (Only for use with the Rollable/Spider Web Ribbon Cables)

Step #18 Trim the strength member 6" (152 mm) away from the sheath opening.

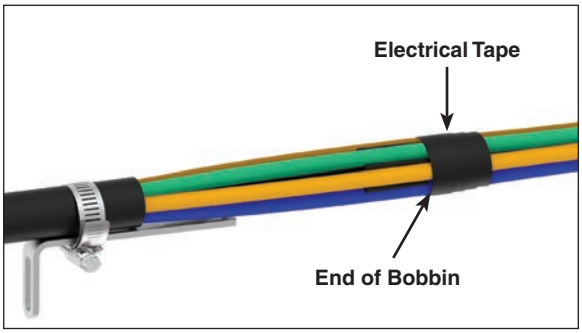


Step #19 Install the bobbin on the end of the strength member as shown below.



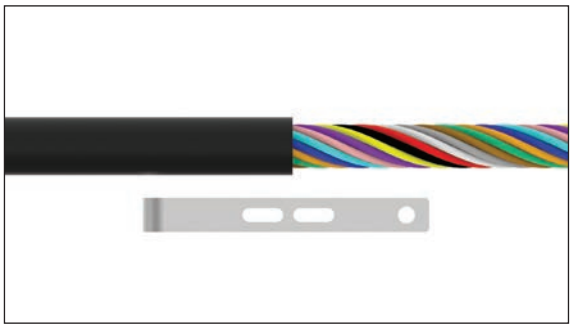


Step #20 Bundle the buffer tubes tightly just past the end of the bobbin and wrap the tubes with electrical tape.

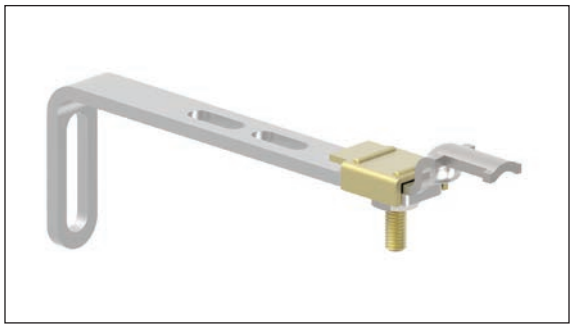


BUFFER TUBE SINGLE FIBER CABLE PREPARATION

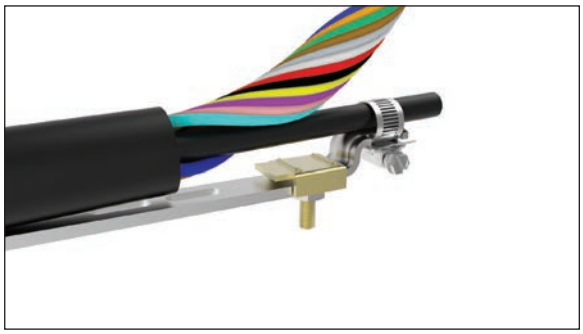
Step #21 Align the sheath opening with the end of the slot of the strength member bracket as shown below.



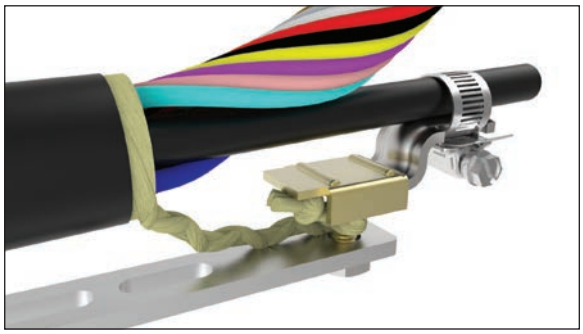
Step #22 Assemble the adapter to the bracket as shown below.

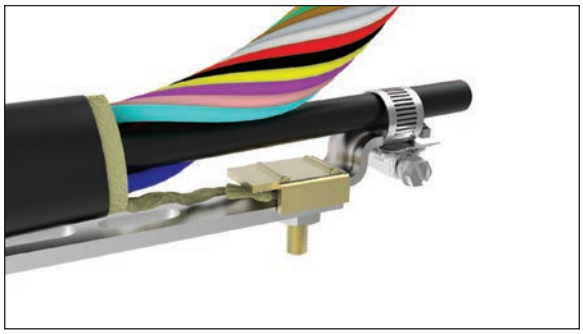


Step #23 Trim the large strength member 1/2" (12.7 mm) past the end of the adapter. Secure the cable strength member to the adapter with the small hose clamp provided.

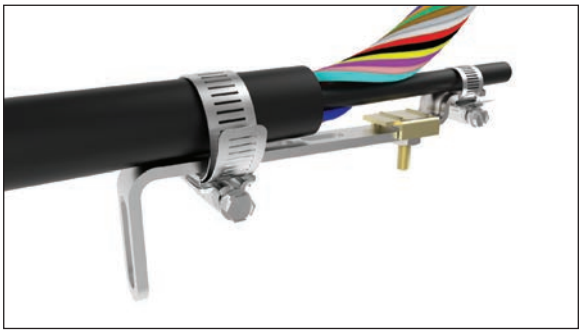


Step #24 If the cable contains aramid yarn, braid roughly 3" (76 mm) of it and wrap it around the stud of the cap as shown below. Tighten the nut of the cap to secure the the yarn under the cap.



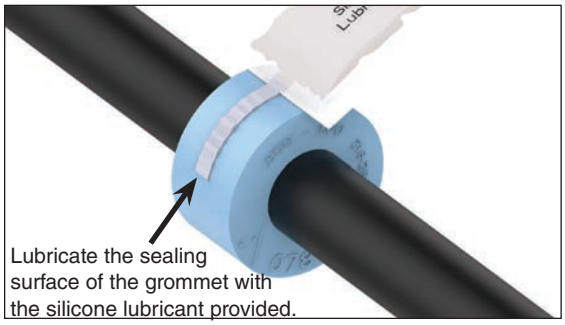


Step #25 Secure the cable to the strength member bracket with the hose clamp provided.

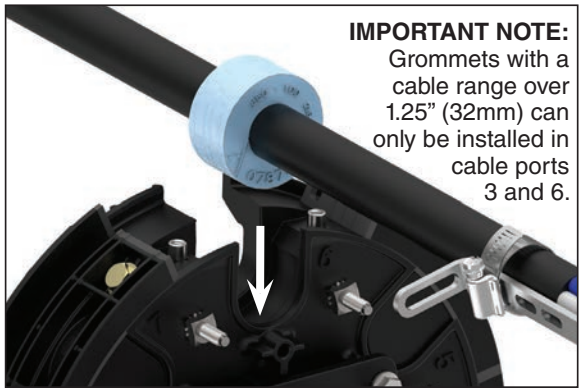


CABLE INSTALLATION AND ROUTING

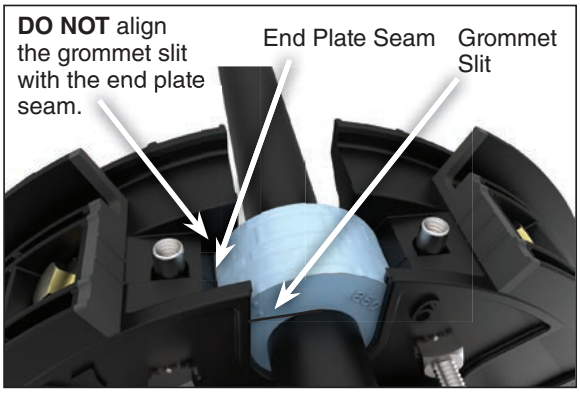
Step #26 Lubricate the sealing surface of the grommet with the silicone lubricant that is provided.



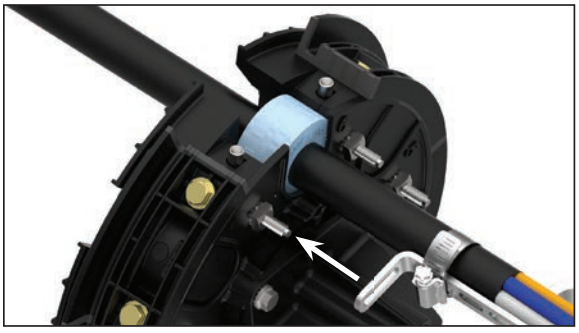
Step #27 Position the grommets in the end plate slots.



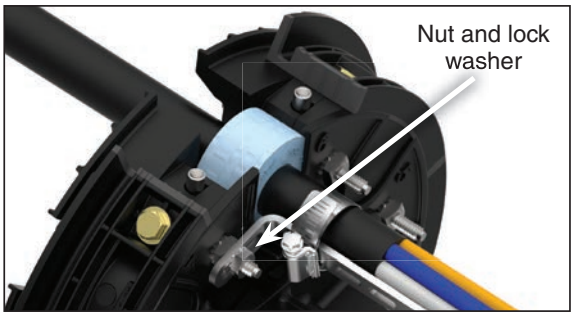
IMPORTANT NOTE: Grommets with a cable range over 1.25” (32mm) can only be installed in cable ports 3 and 6.



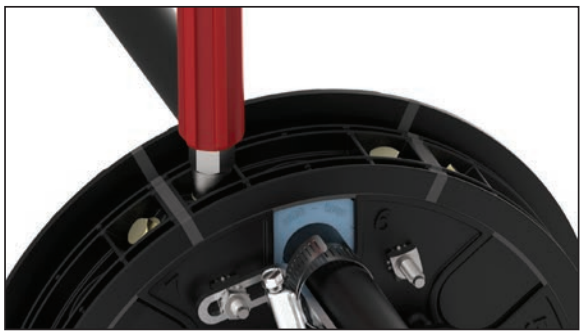
Step #28 Position the slot of the strength member bracket leg over the stud and pull back the cable.



Step #29 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 compressed by the cable cap.



Step #30 Install the cable caps and secure with hex bolts.



NOTES:

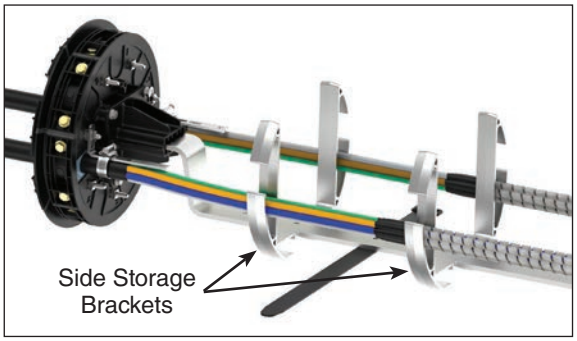
- **Tighten bolts by hand evenly until cable cap is fully seated (DO NOT USE POWER TOOLS TO TIGHTEN BOLTS).**
- **When using a can wrench or nut driver, the installed torque is 35 to 40 in-lbs.**
- **TIGHTEN ALL UNUSED CABLE CAPS.**

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

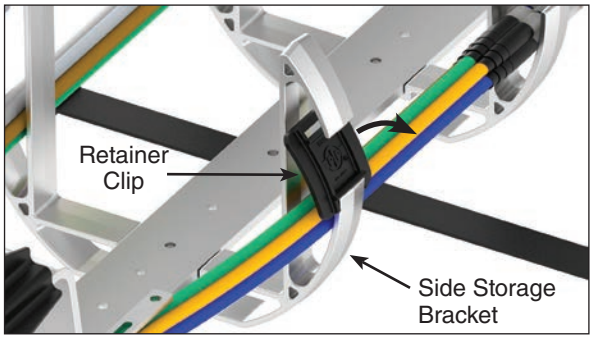
Step #31 Complete end plate assembly.

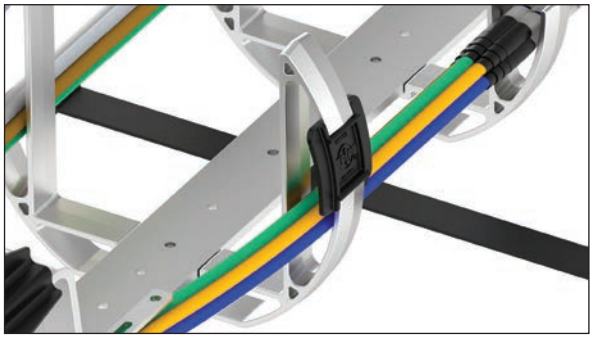
ROUTING BUFFER TUBE RIBBON CABLE

Step #32 Route the buffer tubes through the side storage brackets.



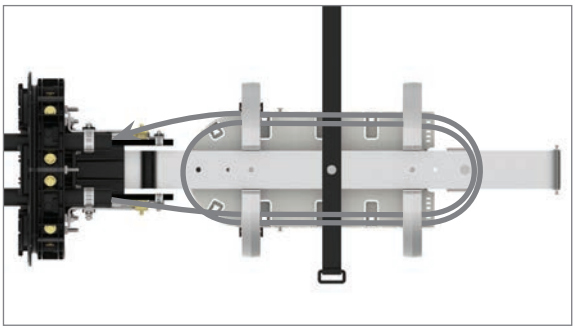
Step #33 Secure the buffer tube(s) in the side storage brackets with the retainer clips. To install the retainer clip, position the bottom slot of the retainer clip onto the bottom portion of the side storage bracket. Tilt the retainer clip forward until the top portion of the side storage bracket snaps into the top slot of the retainer clip.



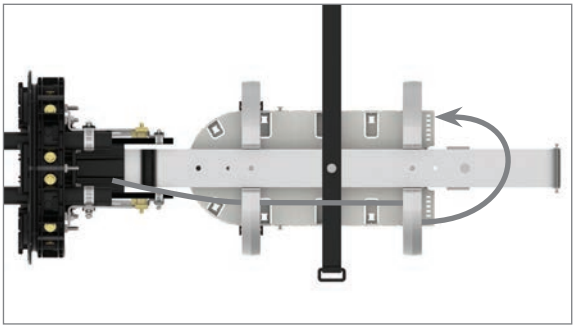


ROUTING BUFFER TUBE SINGLE FIBER CABLE

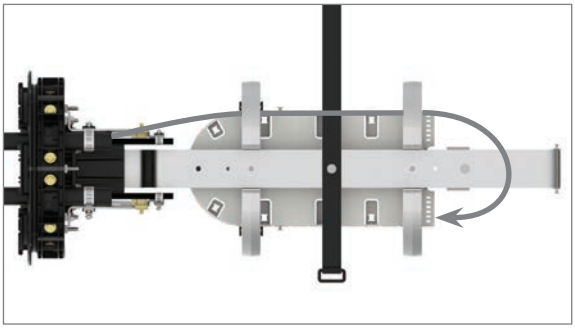
Step #34 Route the expressed buffer tubes in the bottom storage brackets.



Step #35 Route the incoming buffer tube(s) with fibers to be spliced through the storage brackets and up to the splice tray(s). If the buffer tube(s) are routed in the side storage brackets, see Step #33 on how to install the retainer clips.

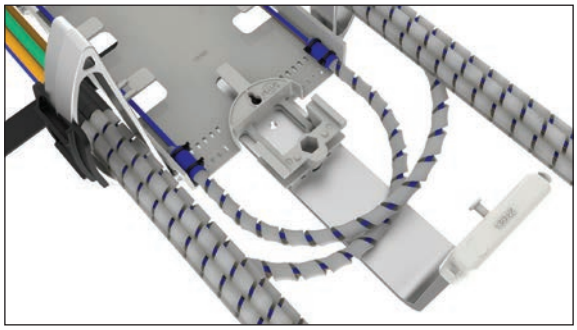


Step #36 Route the outgoing buffer tube(s) with fibers to be spliced through the storage brackets and up to the splice tray(s). If the buffer tube(s) are routed in the side storage brackets, see Step #33 on how to install the retainer clips.



SECURING SPIRAL WRAP TUBING OR BUFFER TUBES TO THE SPLICE TRAYS

Step #37 Wrap the ends of each spiral wrap tube or buffer tube with a piece of felt and secure the tubes to the splice trays with tie wraps.

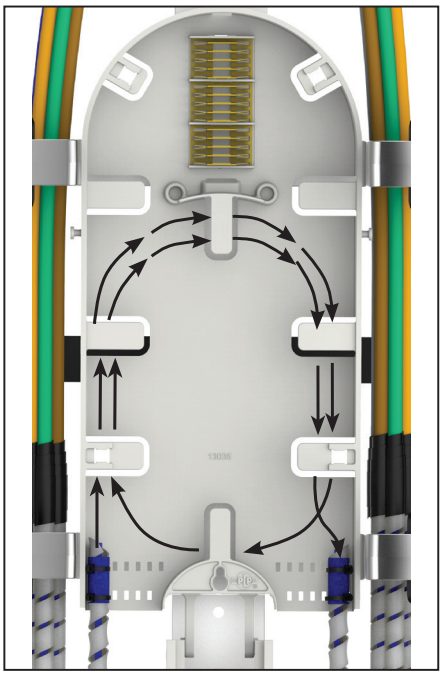


IMPORTANT NOTE FOR RIBBON APPLICATIONS: If fibers are being expressed, route the spiral wrap tubes that contain the expressed fibers to the bottom splice tray. Use the remaining splice trays for storing spliced fibers.

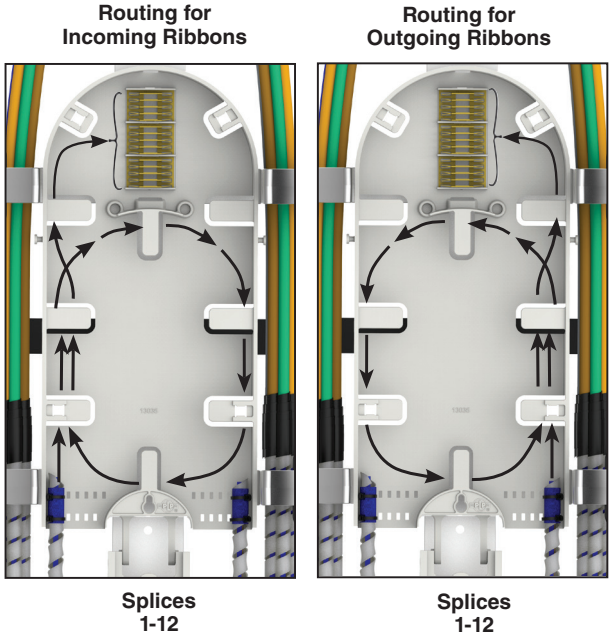
SPLICE TRAY MANAGEMENT

Deep Profile Ribbon Splice Trays (288ct)

Step #38 Route expressed fibers in the bottom splice tray as shown below.

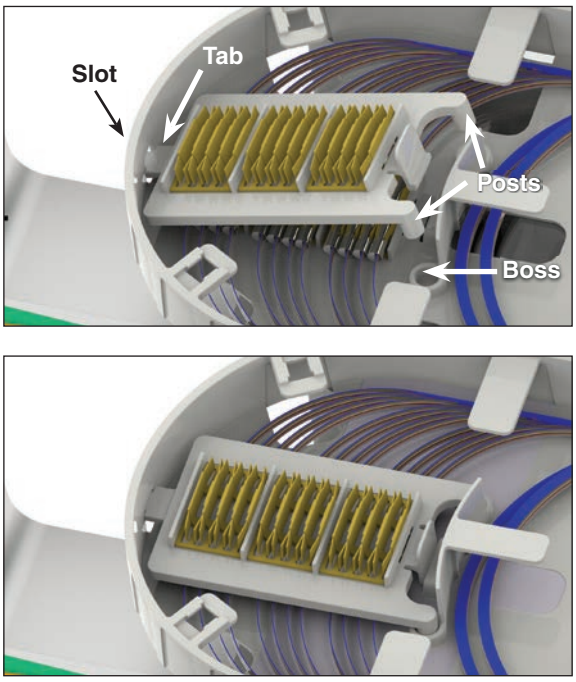


Step #39 Route the first 12 incoming and outgoing ribbons in each splice tray as shown below.

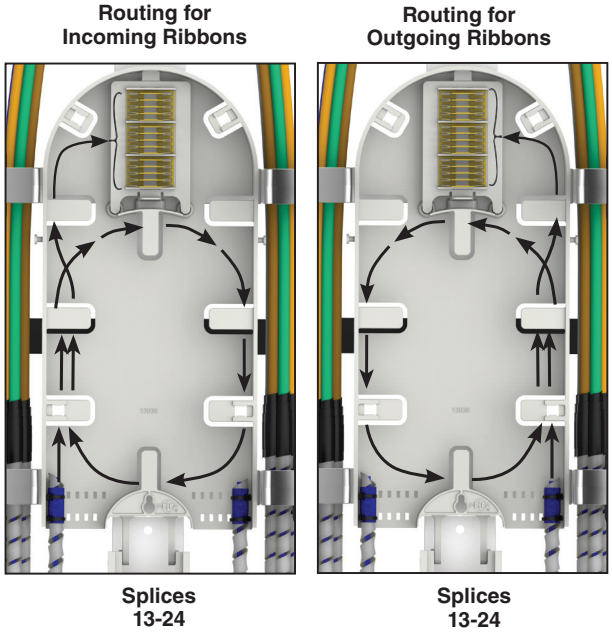


Step #40 Splice the first 12 incoming ribbons to first 12 outgoing ribbons per your accepted company practices.

Step #41 Install the platform into the splice tray by inserting the tab of the platform into the slot of the splice tray and then pushing the posts of the platform into the bosses of the splice tray.



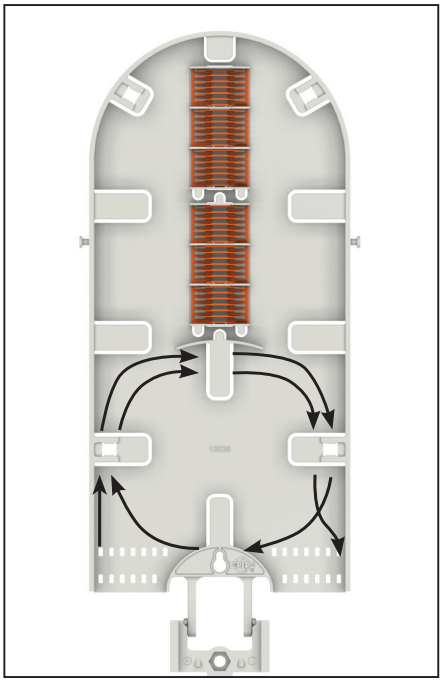
Step #42 Route the last 12 incoming and outgoing ribbons in each splice tray as shown below.



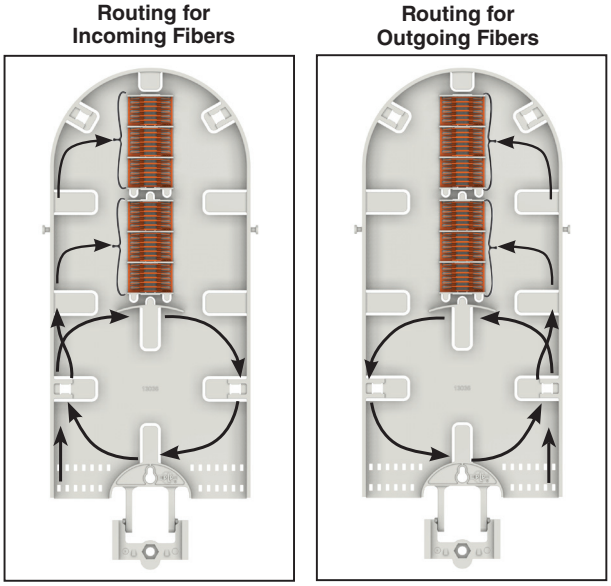
Step #43 Splice the last 12 incoming ribbons to last 12 outgoing ribbons per your accepted company practices.

Thin Profile Single Fusion Splice Trays (72ct)

Step #44 Route expressed fibers in the splice tray as shown below.



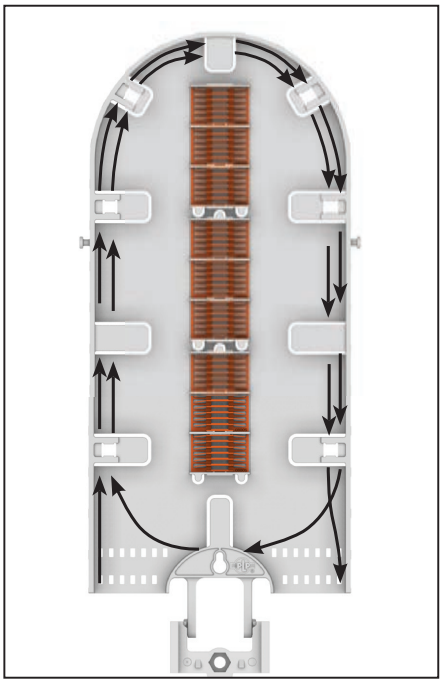
Step #45 Route the incoming and outgoing fibers in each splice tray as shown below.



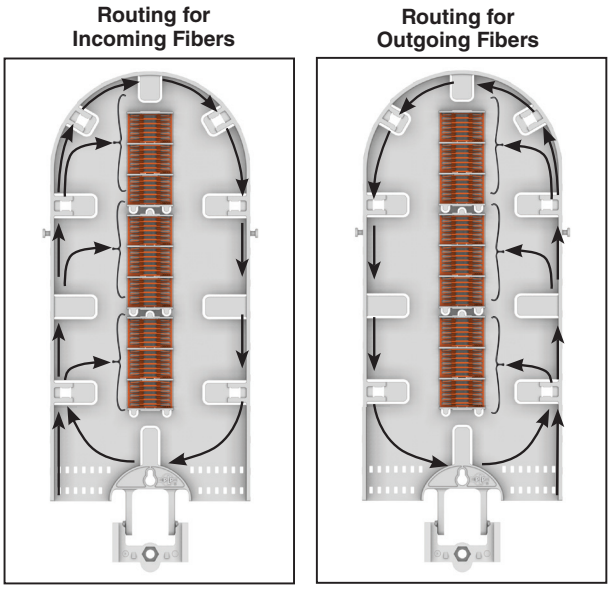
Step #46 Splice the incoming fibers to outgoing fibers per your accepted company practices.

Thin Profile Single Fusion Splice Trays (108ct)

Step #47 Route expressed fibers in the splice tray as shown below.



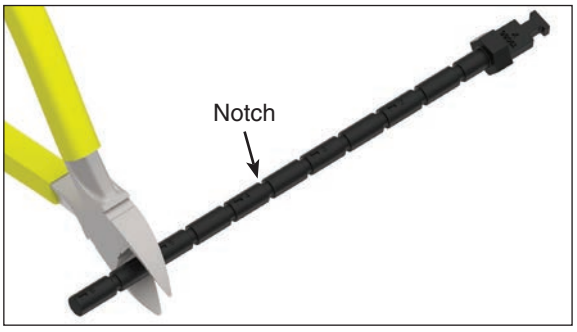
Step #48 Route the incoming and outgoing fibers in each splice tray as shown below.



Step #49 Splice the incoming fibers to outgoing fibers per your accepted company practices.

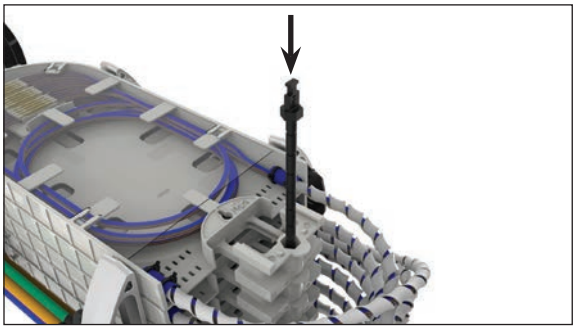
SECURING SPLICE TRAYS

Step #50 Determine the number of splice trays that are installed in the organizer and locate the corresponding number on the lock pin. Trim the lock pin at the notched location just below the number.

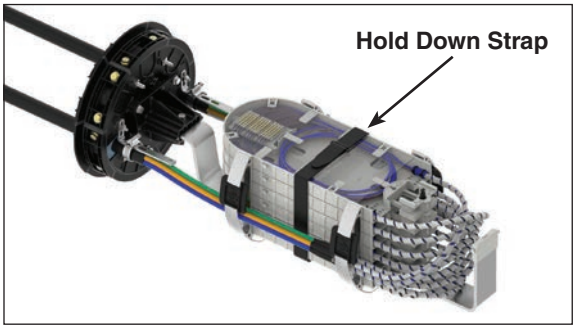


Note: One side of the lock pin is numbered 1-12 for thin profile splice trays and the other side of the lock pin is numbered 1-6 for deep profile splice trays.

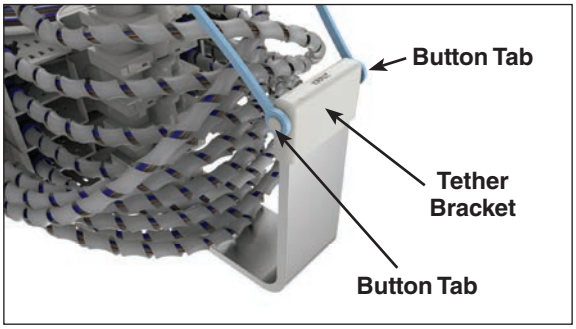
Step #51 Install the lock pin into the hinge brackets as shown below.

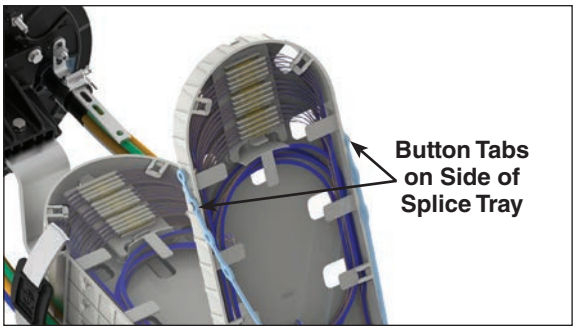


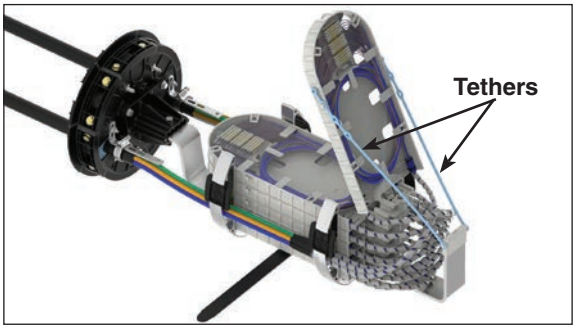
Step #52 Secure the splice tray(s) with the hold down strap.



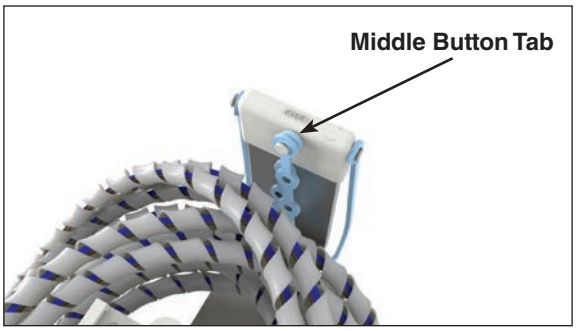
Step #53 To secure the splice trays while they are flipped up, attach the tethers from the button tabs of the tether bracket to the button tabs of the bottom splice tray that is flipped up.







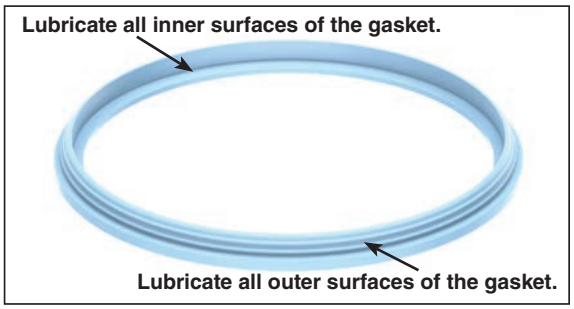
Step #54 When the tethers are not being used they can be stored on the tether bracket by securing the loose ends of the tethers to the middle button tab as shown below.



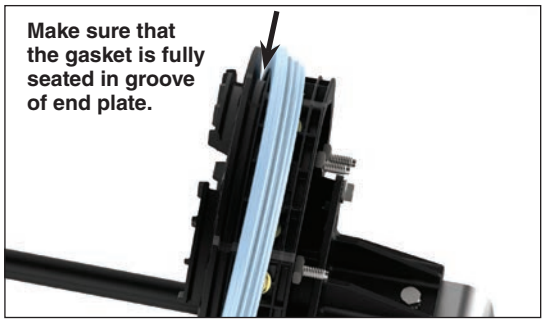
DOME PREPARATION & INSTALLATION

Step #55 Re-tighten all cable cap bolts (Step #30) 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.

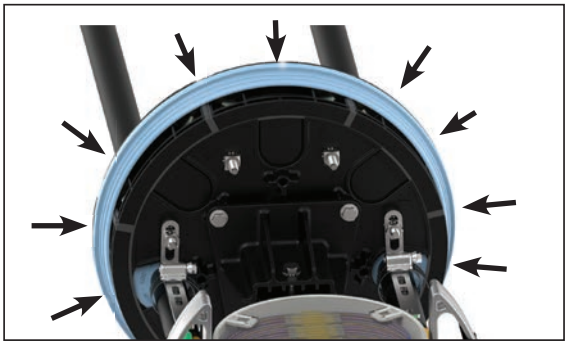
Step #56 Lubricate all surfaces around gasket with silicone lubricant to assure easy assembly and closure re-entry.



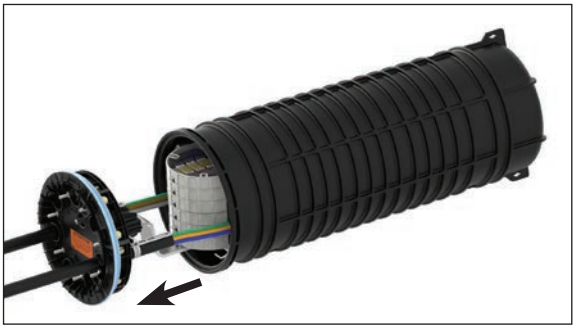
Step #57 Slide the end plate gasket onto the end plate and press into the groove.



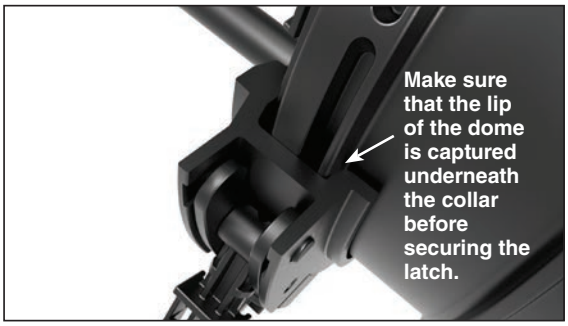
Step #58 Work the gasket into the groove.



Step #59 Position the dome over the end plate.



Step #60 Install the dome collar.



Step #61 Fasten the latch and 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 latch may occur.

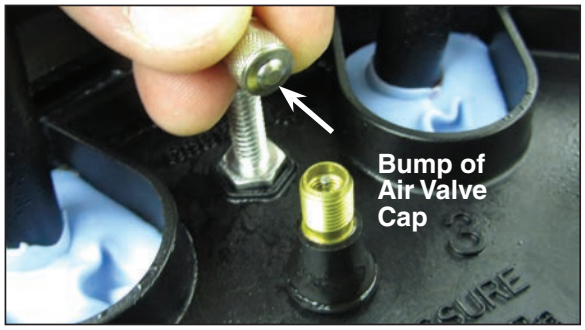
FLASH TEST PROCEDURE

Step #62 Remove the cap from the air valve of the end plate.

Step #63 Pressurize the closure up to a max of 10psi.

Step #64 Spray all sealing surfaces of the dome end plate with a soap/water solution to determine if the end plate has been assembled properly.

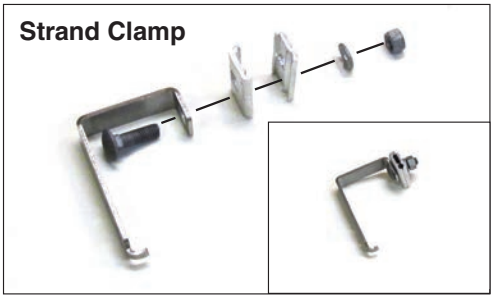
Step #65 Release all pressure in the closure by pressing against the valve stem with the bump on the top of the air valve cap.



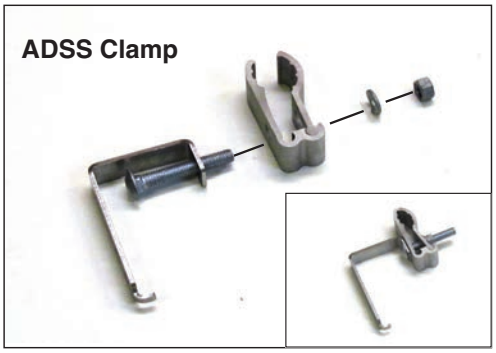
AERIAL MOUNTING OPTIONS

Step #66a **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

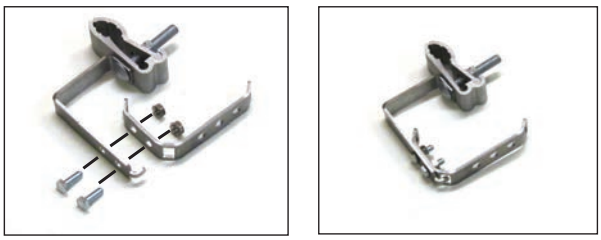


ADSS Clamp

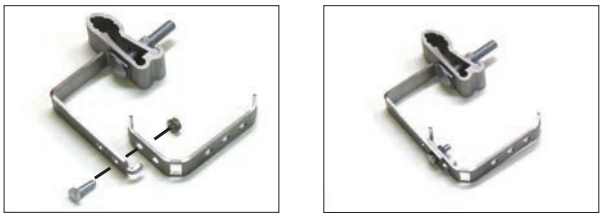


Step #66b

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.

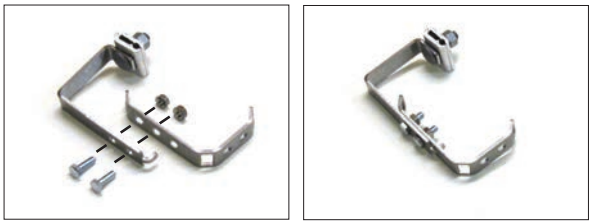


Position 1 – ADSS Clamp Shown

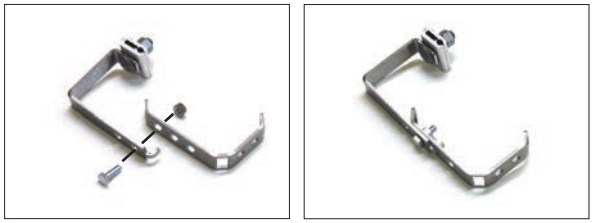


Position 2 – ADSS Clamp Shown

Step #66c **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.

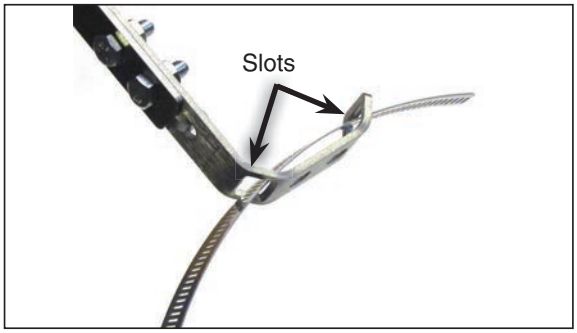


Position 1 – Strand Clamp Shown



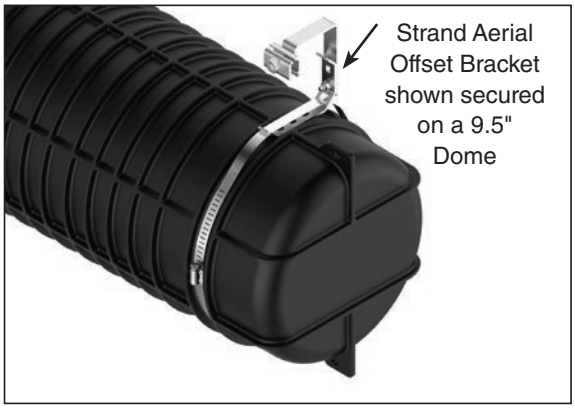
Position 2 – Strand Clamp Shown

Step #67 Insert hose clamp through the slots in each of the bottom aerial offset brackets.



Step #68 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.

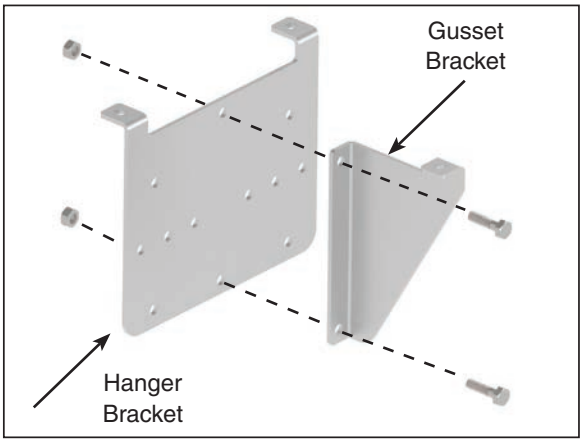
Step #69 Bracket installed on the dome closure.



POLE/WALL MOUNTING OPTION

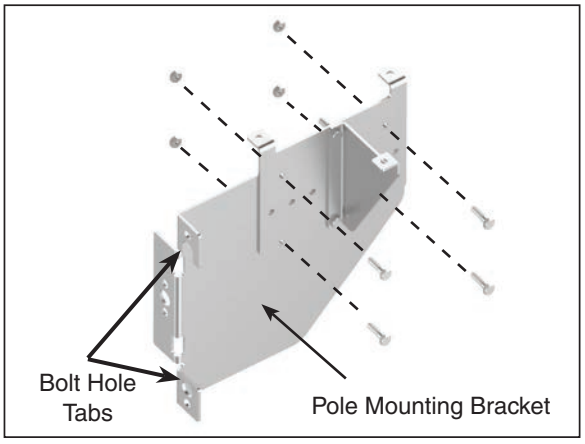
Step #70 **The COYOTE® 9.5" Dome Pole/ Wall Mount Bracket (PLP Cat. #: 8003942).**

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



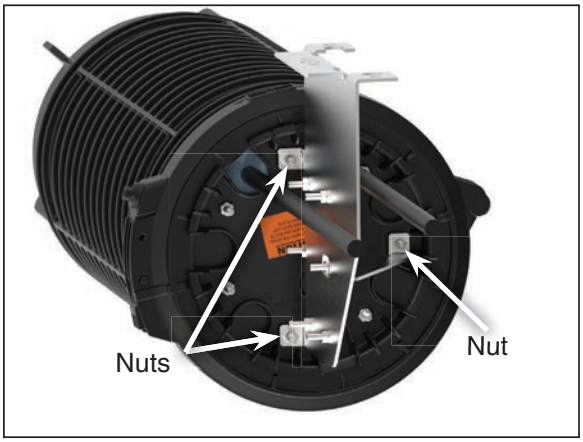
Step #71 **The COYOTE 9.5" Dome Pole/ Wall Mount Bracket (PLP Cat. #: 8003942).**

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.

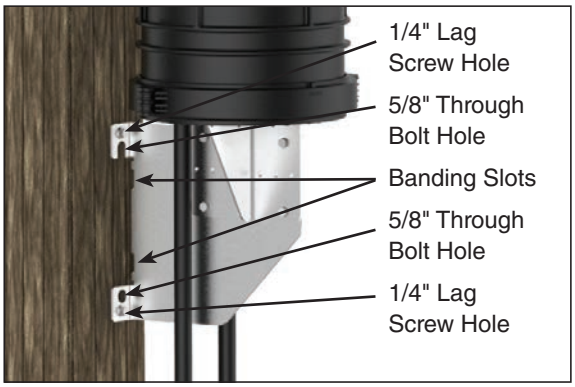


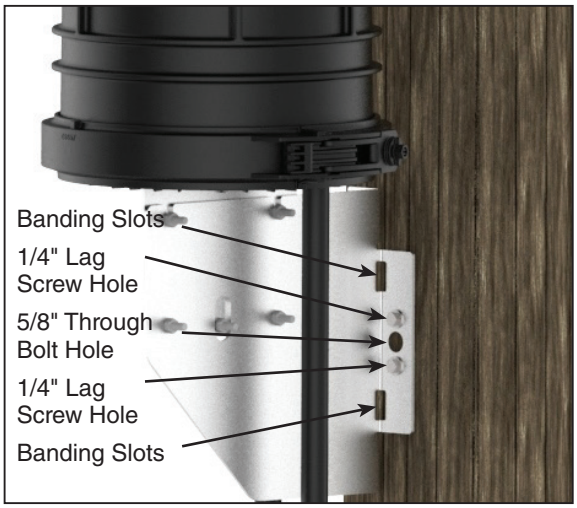
Step #72 **The COYOTE® 9.5" Dome Pole/ Wall Mount Bracket (PLP Cat. #: 8003942).**

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 #73 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. Be sure to wear proper safety equipment per your company protocol.

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

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

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