COYOTE® Dome Closure 6.5" x 22"

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

NOMENCLATURE

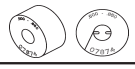
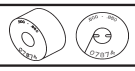
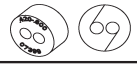
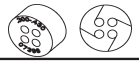
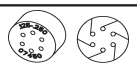
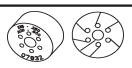
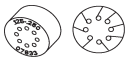
1. Dome cover (1)
2. Organizer with 4-Port End Plate Assembly
3. Transport Tubing Kit (1) (In Dome Kits for Unitube/Ribbon Applications)
4. Dome Gasket (1)
5. Dome Collar (1)
6. Silicone Lubricant (4 five gram packets)
7. Hose Clamp (4)
8. Cable Grommet (2)
9. Short Strength Member Bracket (2)
10. Long Strength Member Bracket (2)
11. Disposable Glove (1)

TOOLS REQUIRED

- 3/8" (9.5 mm) & 7/16" (11 mm) Can wrench or socket
- 1/4" (6.3 mm) Nut driver or screwdriver
- Snips
- Fiber optic cable opening tools

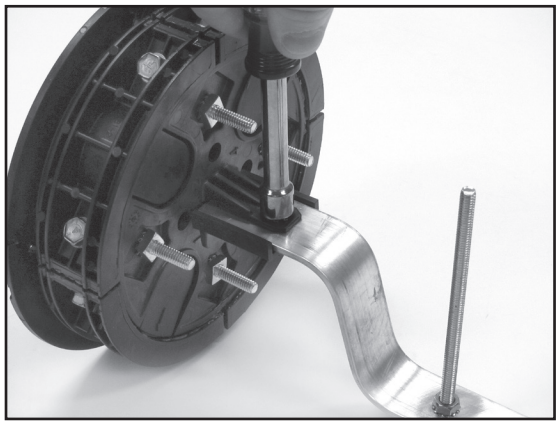
COYOTE Dome Closure 6.5" x 22" Kits	
Catalog Number	**Description**
8006877	**COYOTE Dome Closure 6.5" x 22" for Buffer Tube Applications.** Includes: (2) Grommets, (1) Buffer Tube Organizer Assembly with 4-Port End Plate Assembly, (1) Dome, (1) Collar Assembly, (1) Gasket, (1) Small Parts Bag
8006878	**COYOTE Dome Closure 6.5" x 22" for Unitube/Ribbon Applications.** Includes: (2) Grommets, (1) Transition Tray Organizer Assembly with 4-Port End Plate Assembly, (1) Dome, (1) Collar Assembly, (1) Gasket, (1) Transition Tubing Kit, (2) Transport Tubing Kits, (1) Small Parts Bag
Accessory Kits	
COYEPFIX1	**COYOTE Dome End Plate Fixture**
Mounting Brackets	
8003831	**Aerial Mounting Bracket (Dome Mount) - Strand Applications**
8004035	**Aerial Adjustable Offset Mounting Bracket (Dome Mount) - Strand Applications**
8003833	**Aerial Mounting Bracket (Dome Mount) - ADSS Applications**
8004036	**Aerial Adjustable Offset Mounting Bracket (Dome Mount) - ADSS Applications**
8003702	**Pole/Wall Mounting Bracket**
8003835	**Universal Mounting Bracket Kit for Hand Hole Applications**
8003707	**Swing Arm for Hand Hole Applications**
8004003	**Manhole Support**

Splice Tray/Closure Capacities for 6.5" x 22" COYOTE® Dome Closures				
Splice Tray	**Catalog #**	**Splice Type**	**Trays per Closure**	**Closure Splice Capacity**
LITE-GRIP® (36 ct)	80810086	Single Fusion	4	144
LITE-GRIP (72 ct)	LGSTS72	Single Fusion	3	216
LITE-GRIP (216 ct)	LGSTR216	Mass Fusion/ Ribbon	3	648

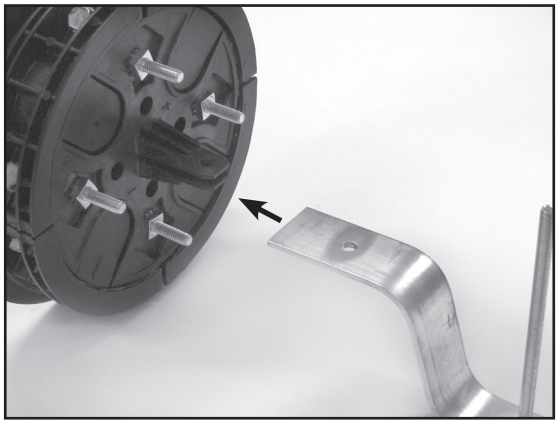
COYOTE Grommet Chart For use in COYOTE GLC, Aerial, LCC, Dome, In-Line RUNT, Taut & Terminal Closures			
PLP Catalog Number	**Cable Range Inches (mm)**	**Description**	**Splitting Location**
8003691	.40 - .60 (10.2 - 15 mm)	1-entry grommet	
8003692	.60 - .85 (15 - 22 mm)	1-entry grommet	
8003693	.85 - 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	
8003664	.30 - .43 (8 - 11 mm)	4-entry grommet	
8004065	.250 - .312 (6.4 - 7.9 mm)	4-entry grommet	
8003990	.50 - .60 (12.7 - 15.2 mm) .125 - .25 (3.2 - 6.4 mm) and flat drop	4-entry grommet	
8003665	.125 - .25 (3 - 6 mm)	6-entry grommet	
8003676	.42 - .60 (11 - 15 mm) .125 - .25 (3 - 6 mm)	7-entry grommet	
8003677	.125 - .25 (3 - 6 mm)	8-entry grommet	
NOTE: Grommet Kit contains: (1) Grommet, (1) Cable Measure Tape, and (1) Silicone Lubricant Pack. Multi-entry grommets have plugs			

End Plate Preparation

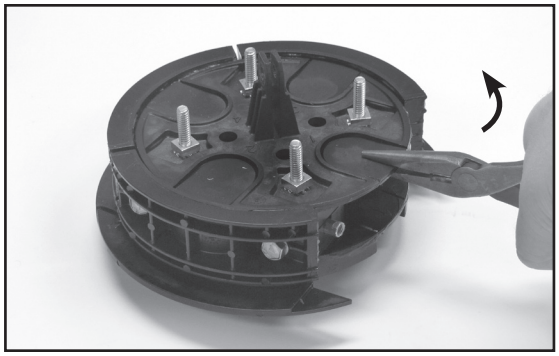
Step #1 Remove the support bar mounting clip from the organizer assembly.



Step #2 Remove the end plate from the organizer assembly.

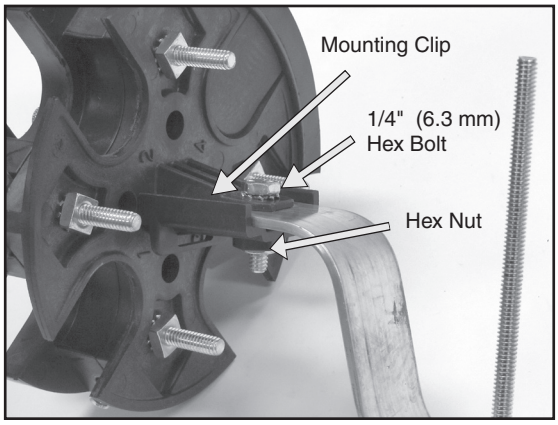


Step #3 Remove the end plate caps from the selected ports and break out the tabs.



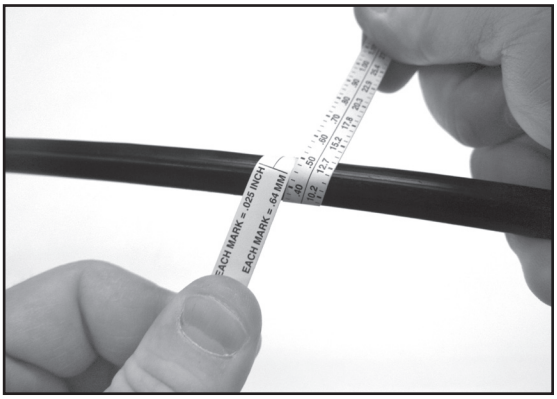
PLP TIP: Scoring edges of tabs with a knife makes them break out easier.

Step #4 Reassemble the organizer assembly to the end plate with the mounting clip and 1/4" (6.3 mm) hex bolt and nut.

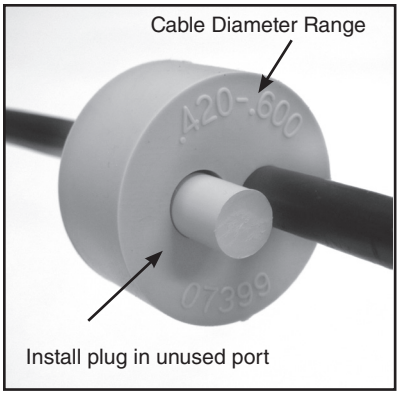


Cable Preparation

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

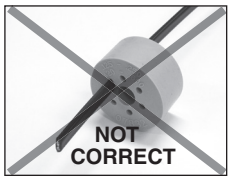


Step #6a If using cut cable, insert cable through grommet. If your application requires express/balloon/ring cut cables, **see Step 7 for grommet slitting procedure.**

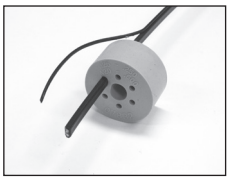


Step #6b **Installing Figure 8 Style Cables and Cables with Tracer Wires -** Remove the tracer wire or ground wire from the portion of the cable that will be positioned in the grommet and insert the cable into grommet.

Cable with Tracer Wire

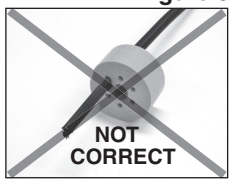


Not Correct Installation

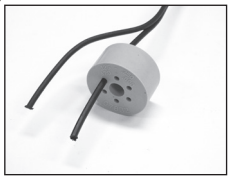


Correct Installation

Figure 8 Style Cable

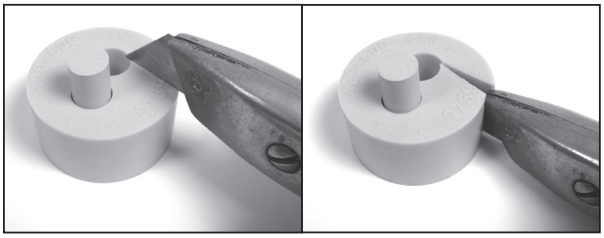


Not Correct Installation

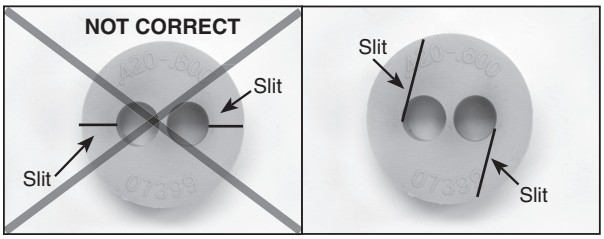


Correct Installation

Step #7 **Grommet Slitting** – If slitting is required, lay the grommet on a stable flat surface. Position a 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.**

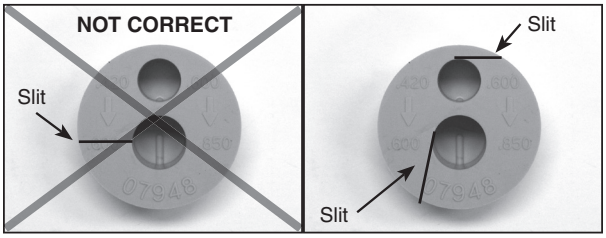


PLP Tip: Use a pen to sketch slitting lines on the top surface of the grommet prior to cutting.



Not Correct Slitting Angle

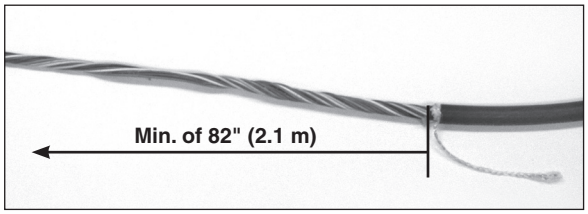
Correct Slitting Angle



Not Correct Slitting Angle

Correct Slitting Angle

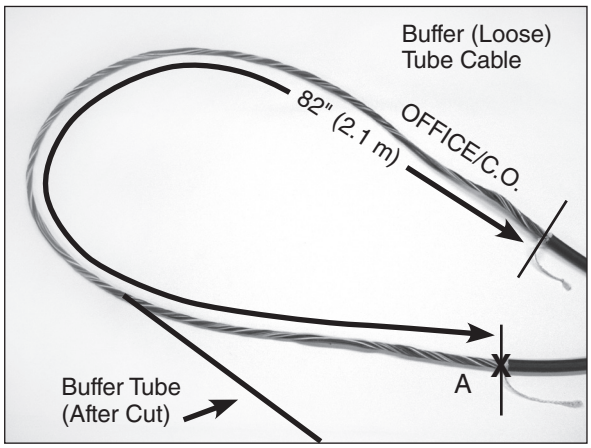
Step #8 Prepare loose tube/buffer tube or unitube/ ribbon cable(s) for cut applications.

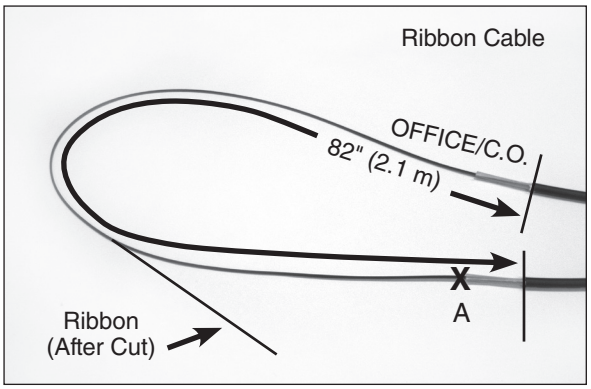


Minimum Sheath Opening for Cut Cable Applications	
Min. of 82"	2.1 m

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

Step #9a Prepare loose tube/buffer tube or unitube/ ribbon cable(s) for mid sheath applications (Express/Balloon/Ring Cut).



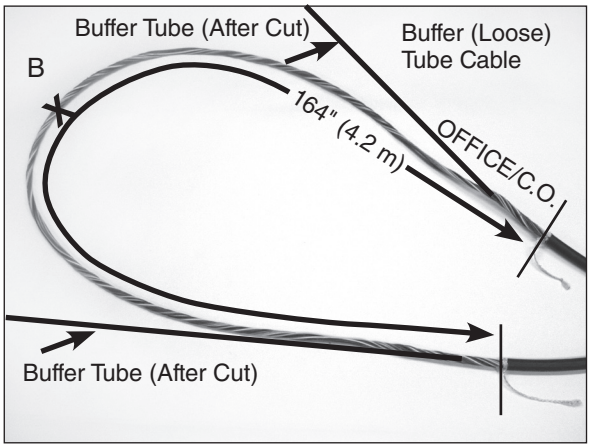


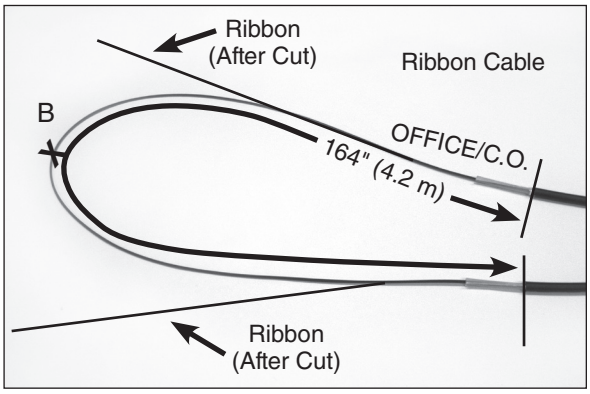
NOTE: When expressing ribbons in the transition tray of the closure at this measurement, the maximum number of ribbons that can be expressed is 36 ribbons (432 fibers).

For Applications Where Fiber is Dedicated to the Splice Point	
Sheath Opening	Min. of 82" (2.1 m)
Fiber/Buffer Tube Cut Location	A (see image above)

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

Step #9b Prepare loose tube/buffer tube or unitube/ ribbon cable(s) for mid sheath applications (Express/Balloon/Ring Cut).





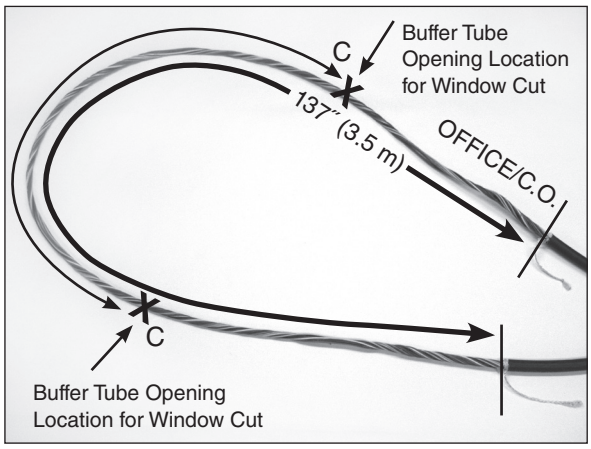
NOTE: When expressing ribbons in the transition tray of the closure at this measurement, the maximum number of ribbons that can be expressed is 36 ribbons (432 fibers).

For Applications Where Fiber is NOT Dedicated to the Splice Point	
Sheath Opening	Max. of 164" (4.2 m)
Fiber/Buffer Tube Cut Location	B (see image above)

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

Cable Sheath Opening for Applications Where Fiber is Expressed through the Buffer Tube

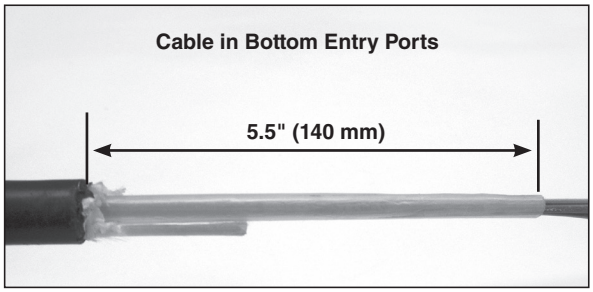
Step #9c Prepare loose tube/buffer tube cable(s) for expressed fiber (buffer tube window cut).

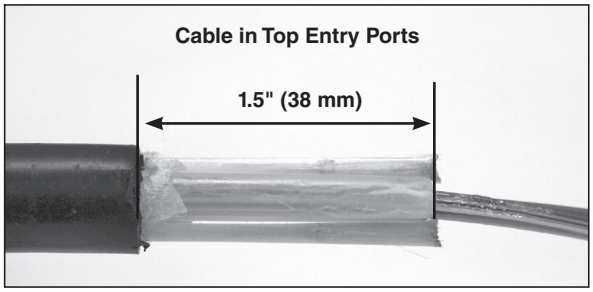


For Applications Where Fiber is Expressed through the Buffer Tube	
Sheath Opening	137" (3.5 m)
Buffer Tube Opening Location	C (see image above)

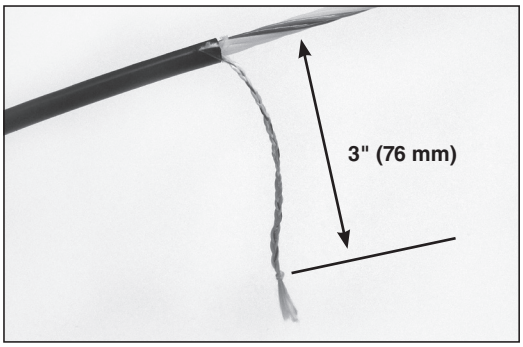
PLP Tip: Leave about 8" (203 mm) of the strength member to trim later.

Step #10 Prepare Central/Buffer Tube(s) for Unitube/ Ribbon Cable Applications.

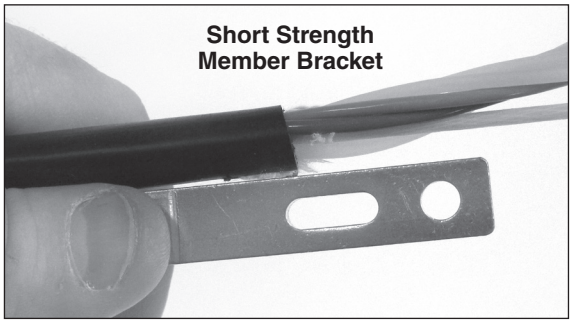


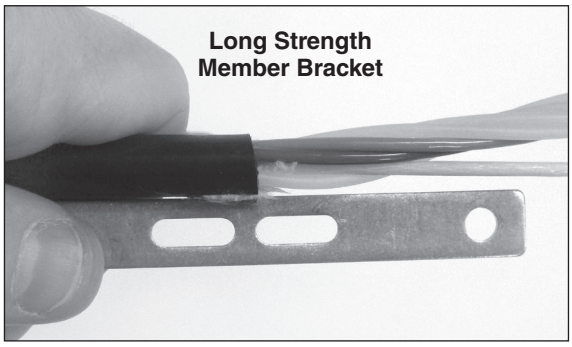


Step #11 If the cable contains Kevlar®, braid roughly 3" (76 mm) of the Kevlar.

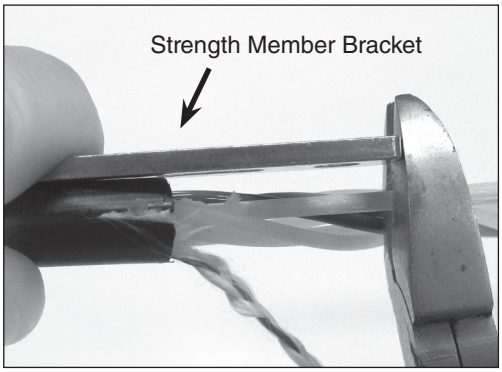


Step #12 Align the sheath opening with the end of the slot of the strength member bracket as shown.

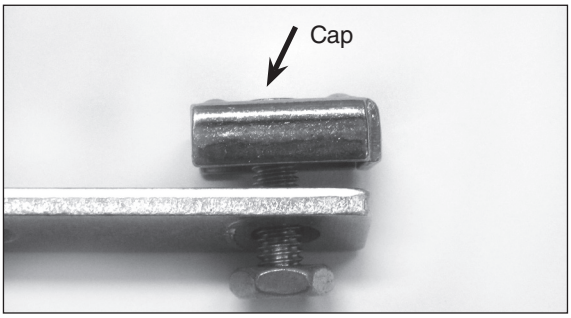




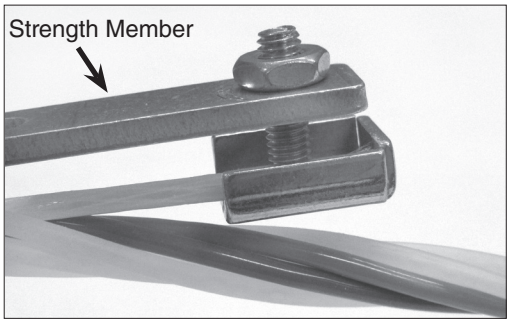
Step #13 Trim the strength member(s) flush with the end of the strength member bracket(s).



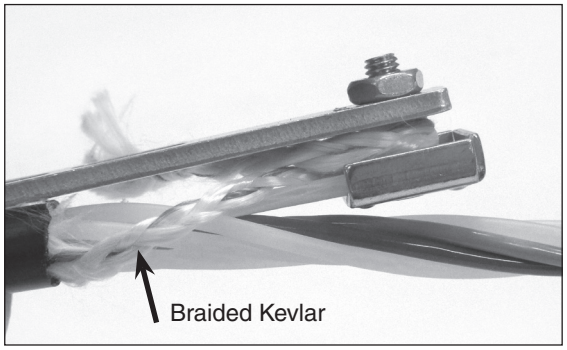
Step #14 Install the cap on strength member bracket.



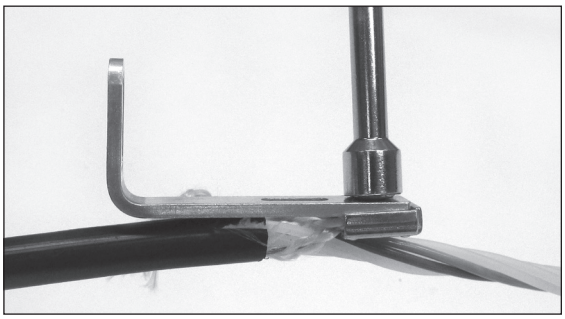
Step #15 Position the strength member under the cap of the strength member bracket.



Step #16 If the cable contains Kevlar®, wrap the braided Kevlar around the stud of the cap as shown.

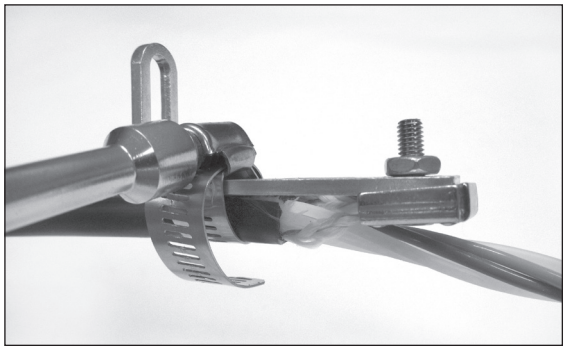


Step #17 Tighten the nut of the cap to secure the strength member and braid under the cap.



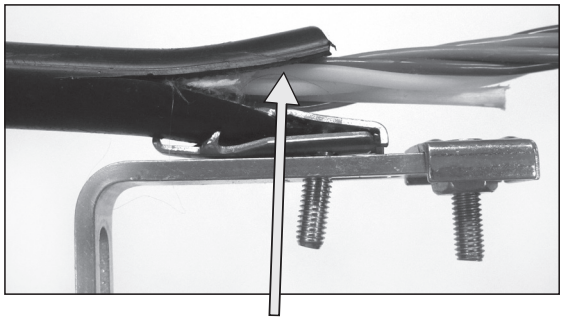
Kevlar® is a registered trademark of DuPont.

Step #18 Secure the cable to the strength member bracket with the hose clamp.



Attaching the Shielded Cable to the Strength Member Bracket

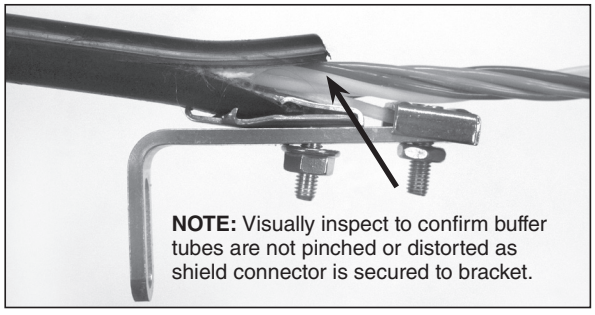
Step #19 For shielded cable applications, PLP recommends using a 3M 4460-D/FO Fiber Optic Shield Connector (PN: 80803989). Install shield connector on cable and insert stud of shield connector through slot of strength member bracket.



NOTE: Visually inspect to confirm the buffer tubes are not pinched or distorted as the shield connector is secured to the bracket.

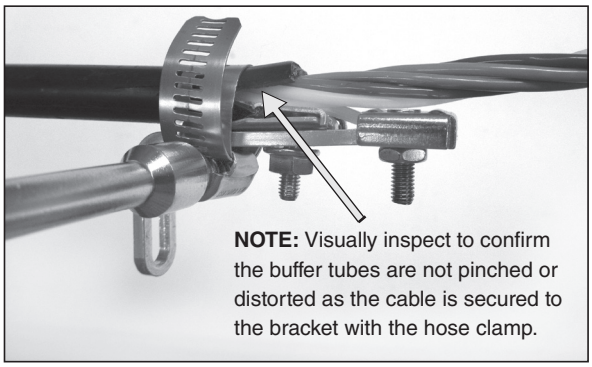
Follow standard company practices when applying the shield connector to the cable.

Step #20 Secure the shield connector to the strength member bracket with the nut and secure the cable strength member under cap of the strength member bracket.



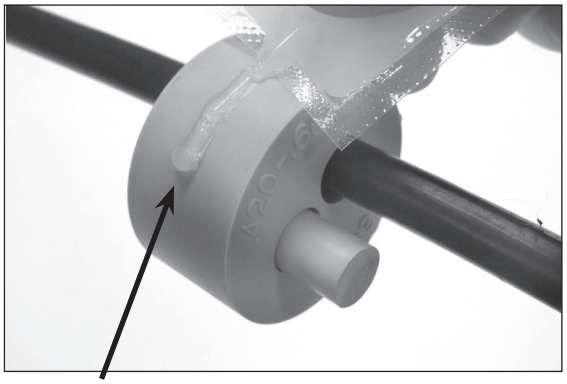
NOTE: Visually inspect to confirm buffer tubes are not pinched or distorted as shield connector is secured to bracket.

Step #21 Secure the shielded cable to the strength member bracket with the hose clamp.



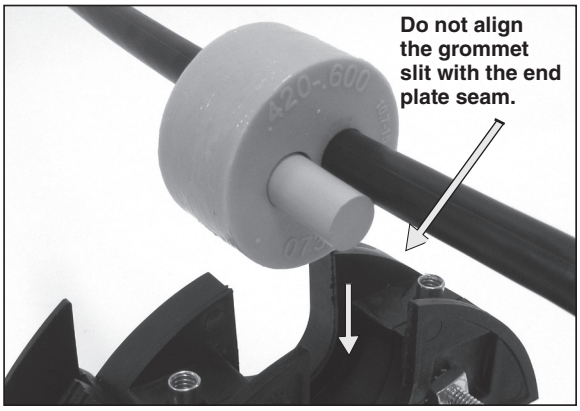
NOTE: Visually inspect to confirm the buffer tubes are not pinched or distorted as the cable is secured to the bracket with the hose clamp.

Step #22 Lubricate the outer surface of the grommet.

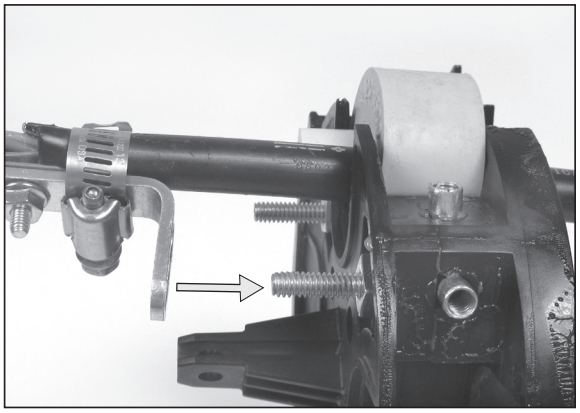


Lubricate the sealing surface of grommet with the silicone lubricant provided.

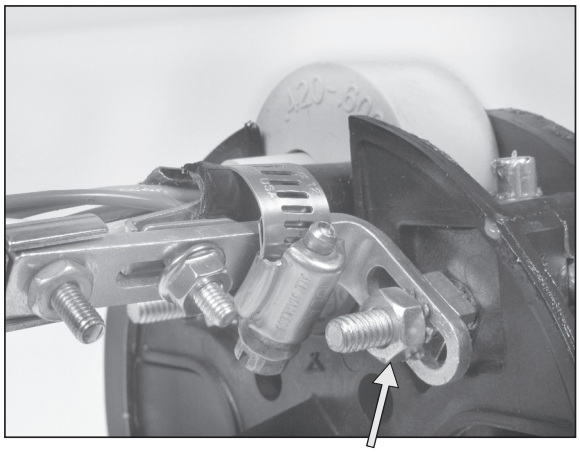
Step #23 Position the grommets in the end plate slots.



Step #24 Position the slot of the strength member bracket leg over the stud and pull back the cable.

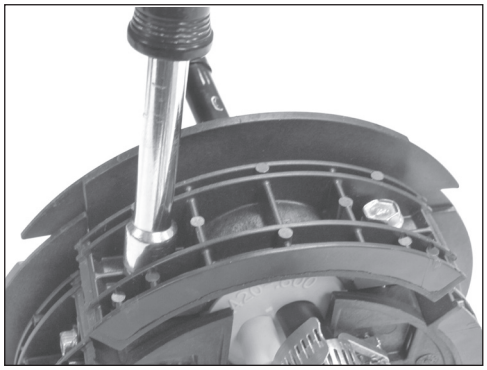


Step #25 Install the strength member bracket on the stud. Install the lock washer and the nut against the bracket. **Do not tighten fully** so the bracket can slide as the grommet is inserted.



Lock Washer & Nut

Step #26 Install the cable caps and secure with the hex bolts.



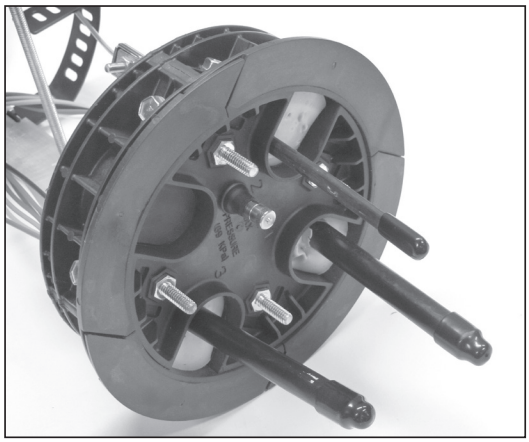
NOTE: Tighten bolts by hand evenly until cable cap is fully seated (DO NOT USE POWER TOOLS TO TIGHTEN BOLTS).

When using a can wrench or nut driver, the installed torque is 35 to 40 in-lbs.

NOTE: TIGHTEN ALL UNUSED CABLE CAPS.

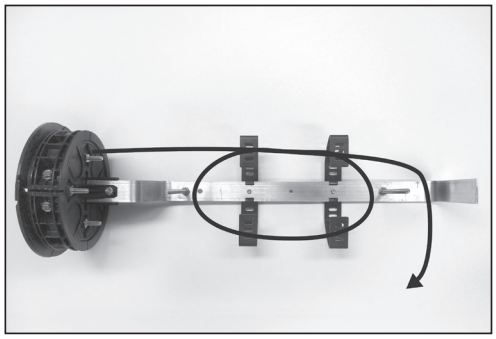
IMPORTANT: TIGHTEN DOWN THE STRENGTH MEMBER BRACKET AFTER THE CAPS ARE TIGHTENED.

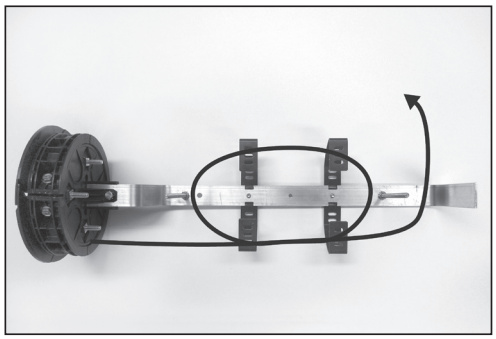
Step #27 Completed end plate assembly.



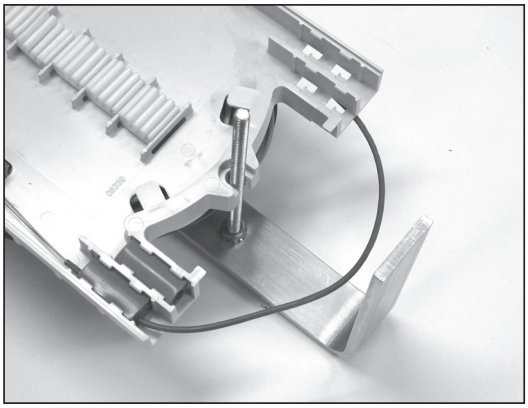
Buffer Tube Applications

Step #28 Route and store the buffer tubes in the storage brackets.



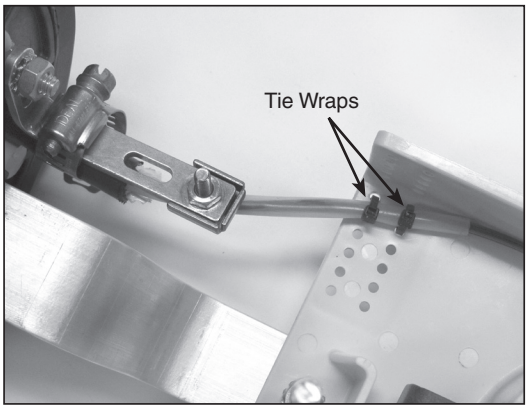


Step #29 Route the buffer tube(s) to the splice tray(s) and secure.

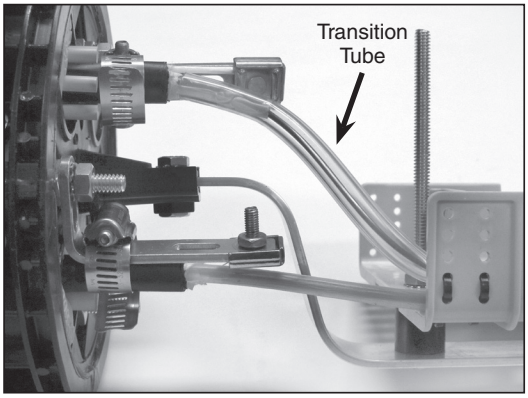


Unitube Applications

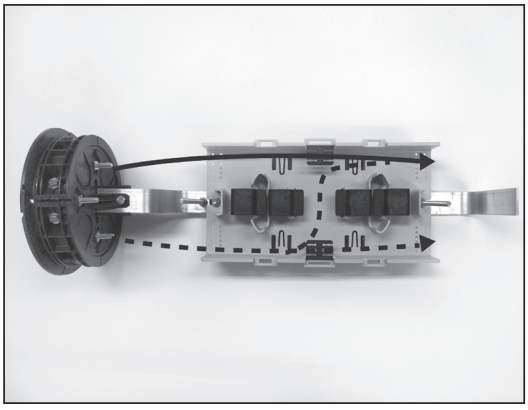
Step #30 Route and secure the central tube of the unitube cables to the transition tray.



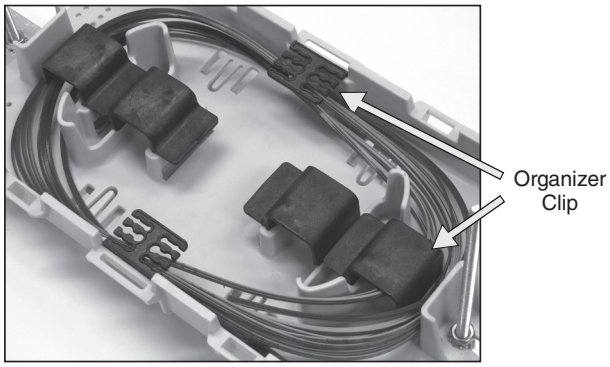
Step #31 Use the transition tubes to route the fibers or ribbons from the upper cable ports.



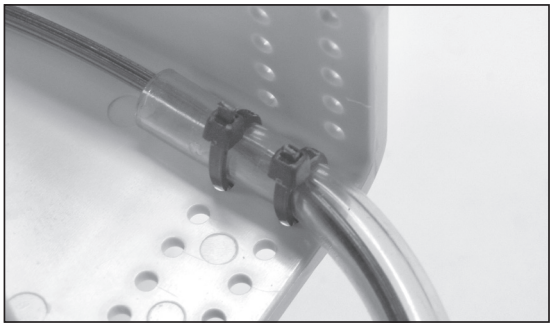
Step #32 Route the feeder fibers or ribbons within the transition tray.



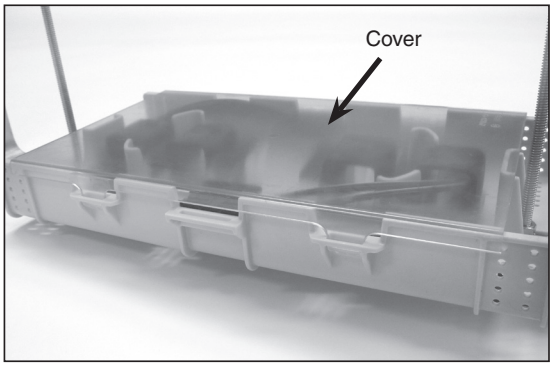
Step #33 Route the express fibers or the ribbons under the clips.



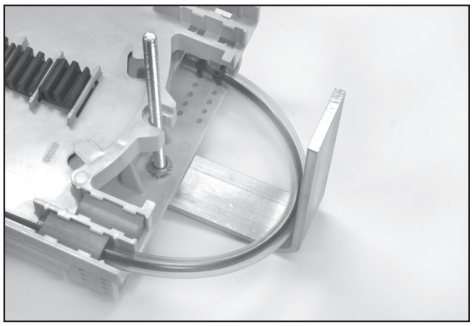
Step #34 Insert fibers or ribbons to be routed to the splice tray(s) into the transport tube(s) and secure the tubes to transition tray.



Step #35 Install the cover on the transition tray.



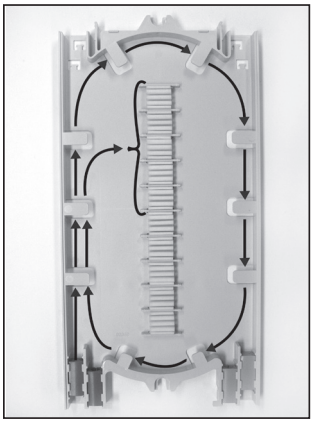
Step #36 Route tthe ransport tube(s) to the splice tray(s) and secure.



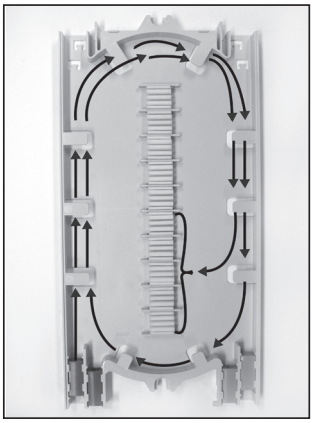
Splice Tray Management

Step #37 Route the **INCOMING** fibers in splice tray.

Splices
1-20
41-60

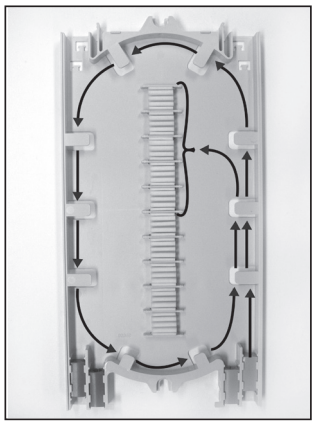


Splices
21-40
61-80

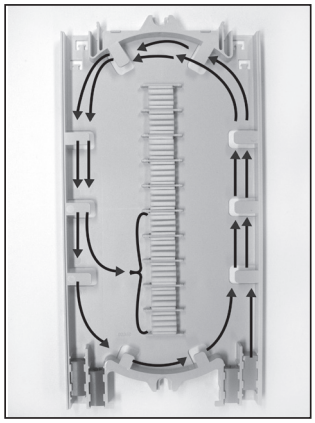


Step #38 Route **OUTGOING** fibers in splice tray.

Splices 1-20 41-60



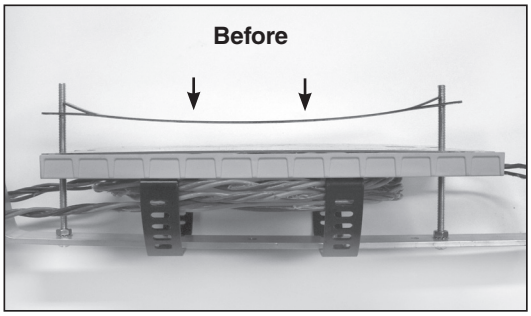
Splices 21-40 61-80



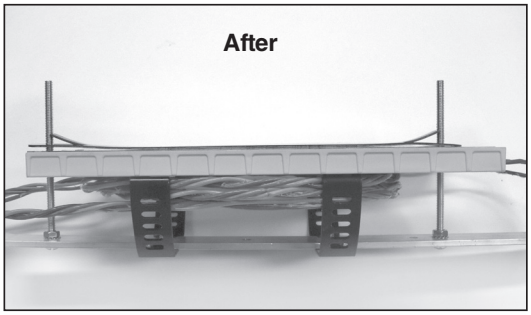
Step #39 Splice **INCOMING** fibers to outgoing pigtail fibers per your accepted company practices.

Step #40 Secure the splice tray(s) with the hold down strap.

Before



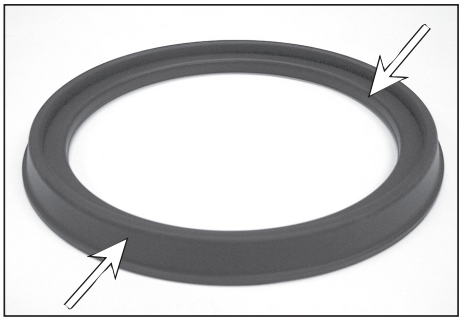
After



Dome & Collar Installation

Step #41 Lubricate all surfaces around the gasket with the silicone lubricant to assure easy assembly and closure re-entry.

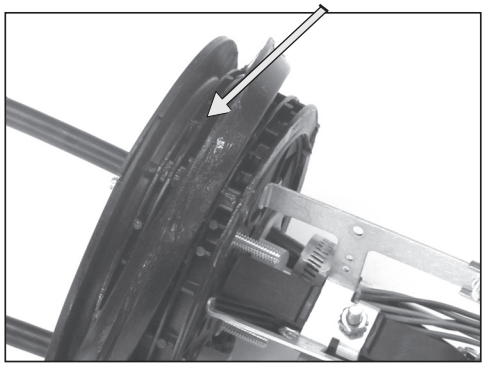
Lubricate all inner surfaces of the gasket.



Lubricate all outer surfaces of the gasket.

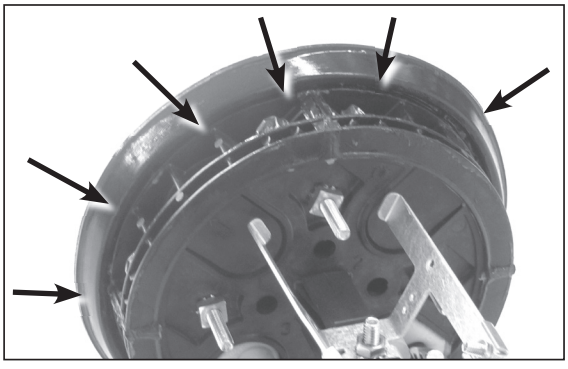
Step #42 Slide the end plate gasket onto the end plate and press into the groove.

Make sure the gasket is seated in groove of the end plate

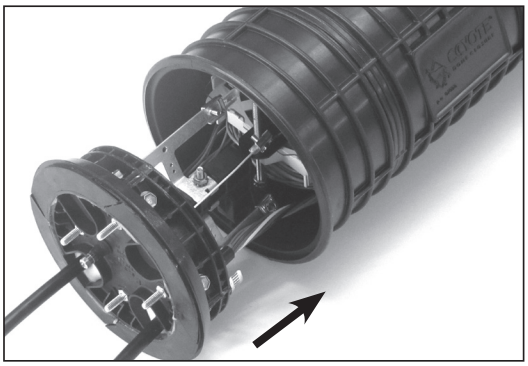


Step #43 Re-tighten all cable cap bolts (step #26) to assure that the cable caps are fully seated. When using a can wrench or nut driver, the installed torque is 35 to 40 in-lbs.

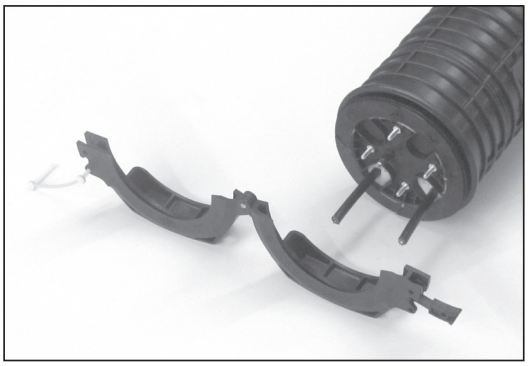
Step #44 Work the gasket into the groove.



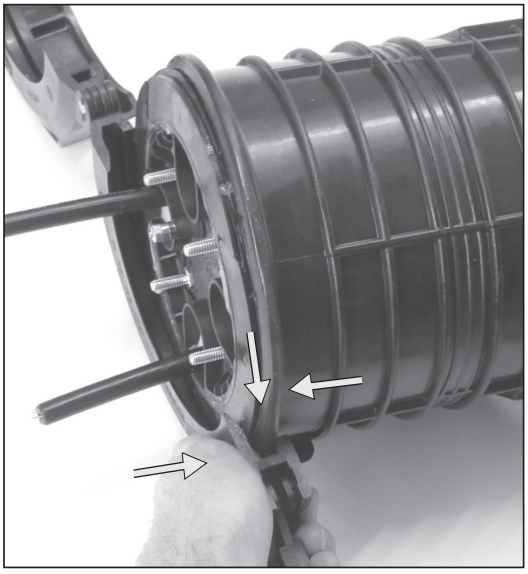
Step #45 Position the dome over the end plate.



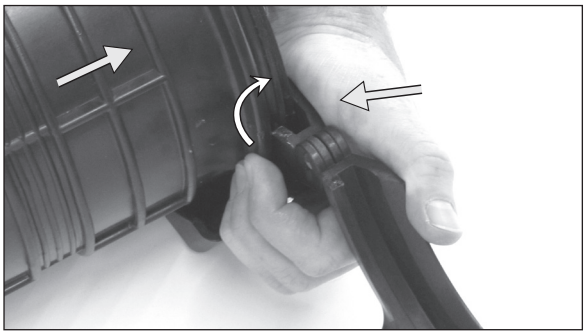
Step #46 Position the collar flat on the work surface in front of the closure as shown below.



Step #47 While holding the collar in place, compress a portion of the end plate into the dome and insert them in the groove of the collar near the latch, as shown below.

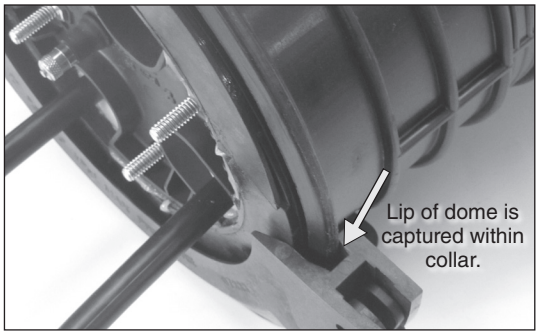


Step #48 While holding the collar in place, push against the end of the dome and slightly lift and push the other half of the dome up and over the lip of the collar with your fingers to fully install the dome in the collar half.

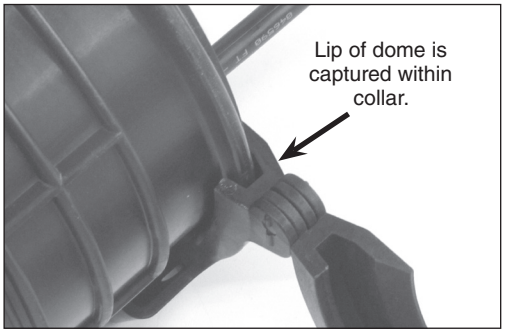


Step #49 Check to make sure the lip of the dome is captured within the collar half

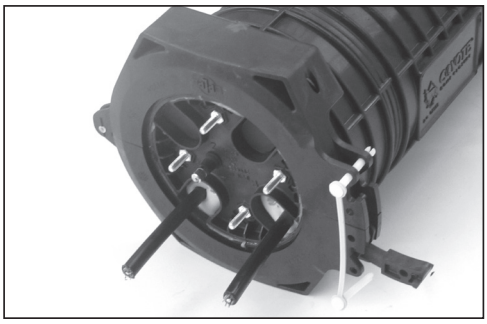
Front Side



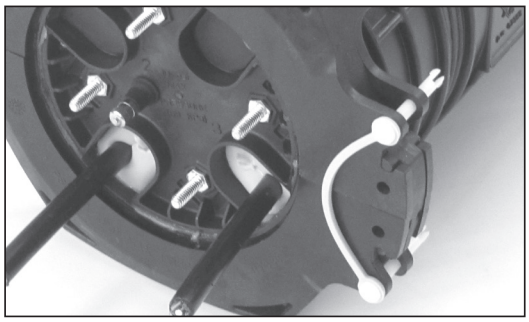
Back Side



Step #50 Install the other collar half onto the closure.

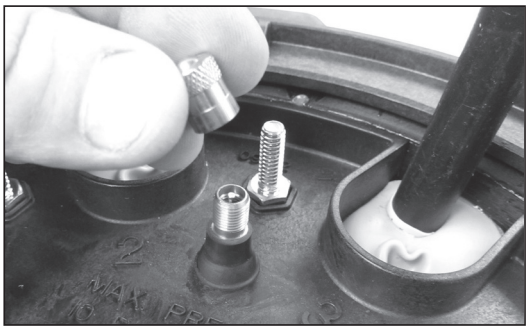


Step #51 Secure the collar with the latch and pin.

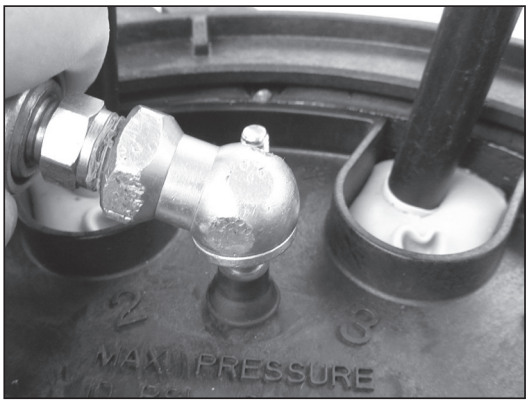


Flash Test Procedure

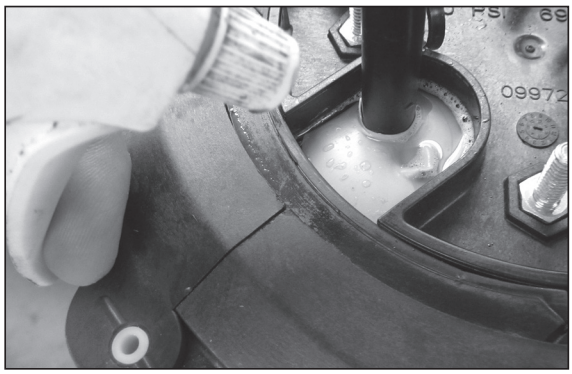
Step #52 Remove the cap from the air valve of the end plate.



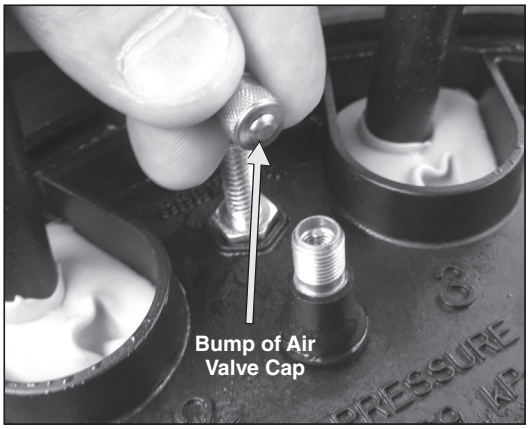
Step #53 Pressurize the closure up to a max of 10 psi.



Step #54 Spray all sealing surfaces of the dome end-plate with soapy water to determine if there are any leaks.

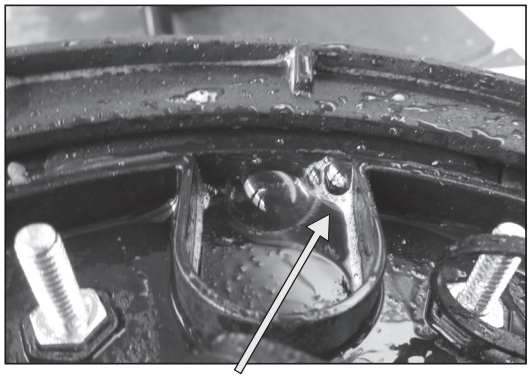


Step #55 Release the pressure in the closure using the bump on the top of the air valve cap.



Common End Plate Leaks During Flash Testing

Leak occurring at the corner of the cable port due to the cap of the cable port not being fully tightened.



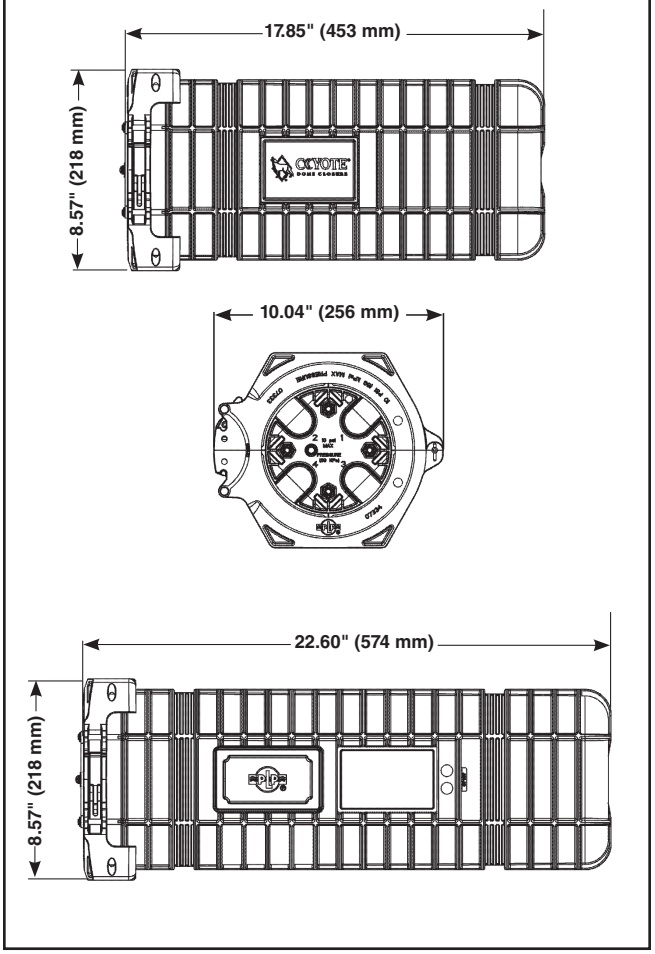
Leak occurring at the corner of the cable port

To resolve, remove collar, remove End Plate Organizer Assembly from the Dome, and tighten bolts on end cap where leak occurred. Reassemble and flash test to confirm that the leak has stopped.

Leak occurring at the cable entry of the grommet due to the cable not being within the stated cable diameter range of the grommet

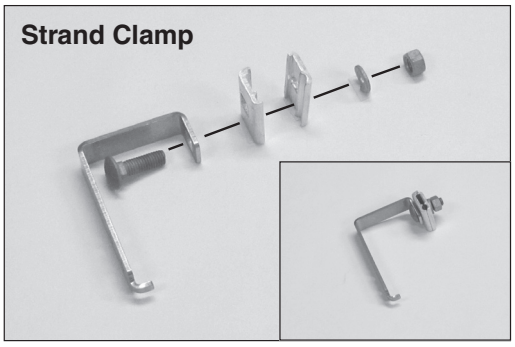
Leak occurring at the cable entry of the grommet

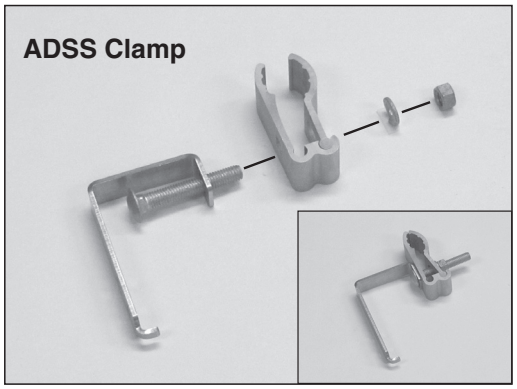
To resolve, remove collar and remove End Plate/ Organizer Assembly from the Dome. Remove end cap where leak occurred, remove grommet, remeasure cable with measure tape provided and select proper grommet. Reassemble the components and flash test the closure to confirm that the leak has stopped.



Aerial Mounting Options

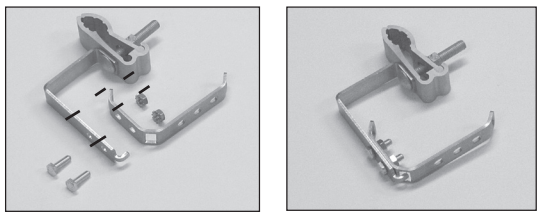
Step #56a **For 6.5" Dome Strand Mount Aerial Offset Bracket Kit (P/N: 8004035) and 6.5" Dome ADSS Mount Aerial Offset Bracket Kit (P/N: 8004036)**. Assemble each bug nut or ADSS clamp to each top aerial offset bracket as shown below.



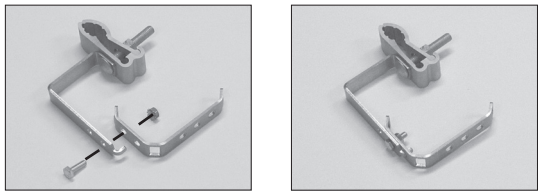


Step #56b **For 6.5" Dome Strand Mount Aerial Offset Bracket Kit (P/N: 8004035) and 6.5" Dome ADSS Mount Aerial Offset Bracket Kit (P/N: 8004036)**.

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.



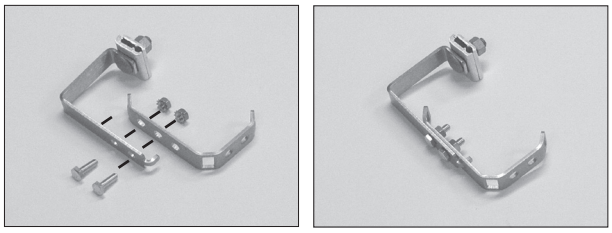
Position 1 – ADSS Clamp Shown



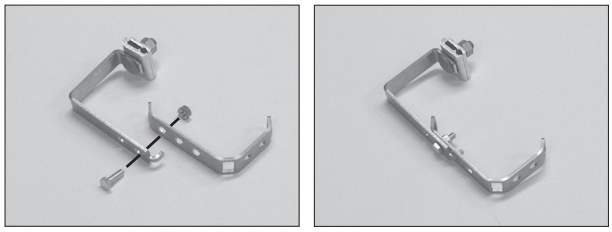
Position 2 – ADSS Clamp Shown

Step #56c **For 6.5" Dome Strand Mount Aerial Offset Bracket Kit (P/N: 8004035) and 6.5" Dome ADSS Mount Aerial Offset Bracket Kit (P/N: 8004036)**.

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.

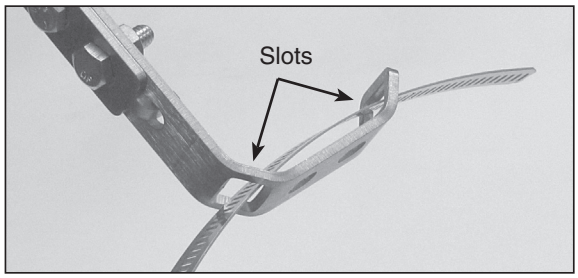


Position 1 – Strand Clamp Shown

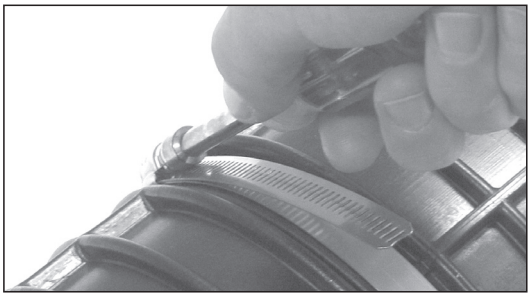


Position 2 – Strand Clamp Shown

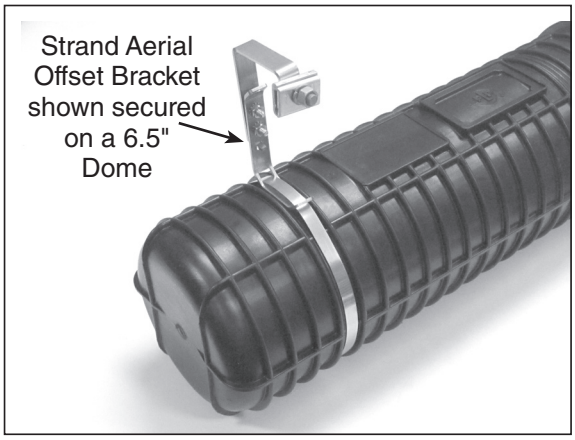
Step #57 **6.5" Dome Strand Mount Aerial Offset Bracket Kit (P/N: 8004035) and 6.5" Dome ADSS Mount Aerial Offset Bracket Kit (P/N: 8004036)**. Insert hose clamp through slots in each of the bottom aerial offset brackets.



Step #58 **6.5" Dome Strand Mount Aerial Offset Bracket Kit (P/N: 8004035) and 6.5" Dome ADSS Mount Aerial Offset Bracket Kit (P/N: 8004036)**. Tighten each hose clamp around the dome.

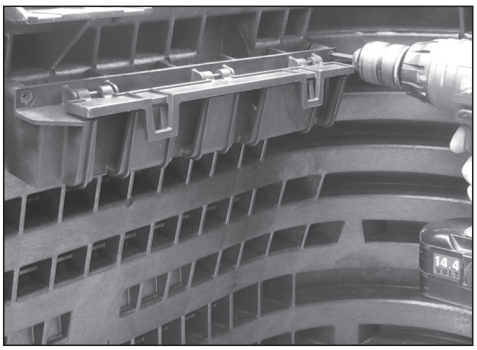


Step #59 **6.5" Dome Strand Mount Aerial Offset Bracket Kit (P/N: 8004035) and 6.5" Dome ADSS Mount Aerial Offset Bracket Kit (P/N: 8004036).**
Bracket installed on dome closure.

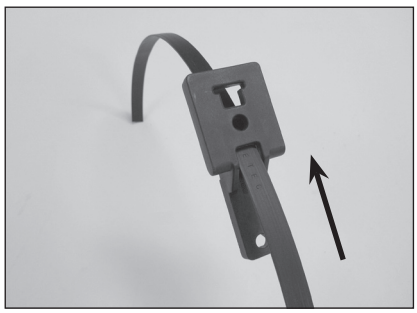


Hand Hole Mounting Option

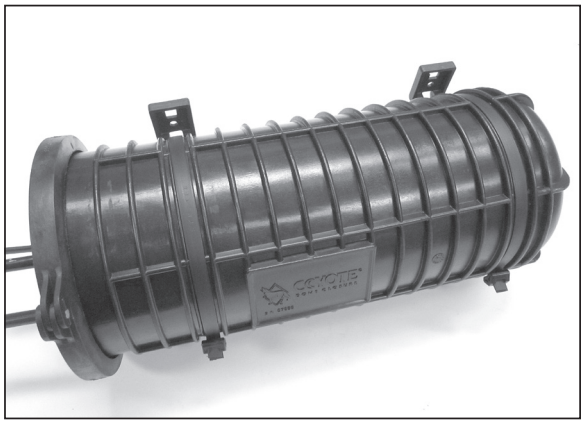
Step #60 **COYOTE Universal Mounting Bracket for Hand Hole Applications (P/N: 8003835).**
Secure the Universal Mounting Bracket to the inner wall of the hand hole using 2 screws.



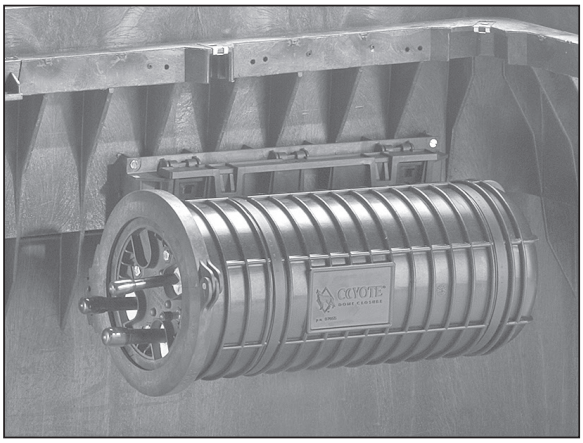
Step #61 **COYOTE Universal Mounting Bracket for Hand Hole Applications (P/N: 8003835).**
Insert banding (plastic or metal) through the slots of the hanger brackets.



Step #62 **COYOTE Universal Mounting Bracket for Hand Hole Applications (P/N: 8003835).**
Position the brackets in the banding channels of the dome. Tighten the banding until the brackets are secure.



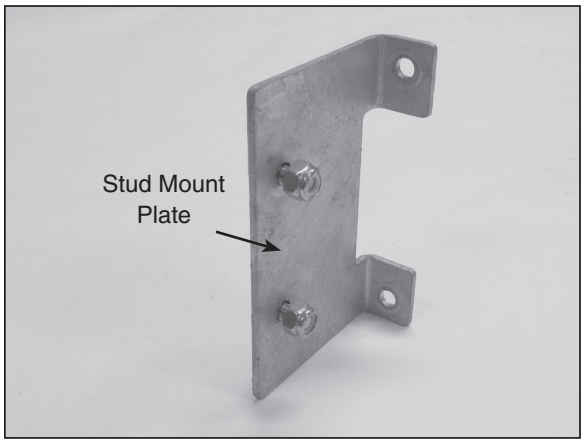
Step #63 **COYOTE Universal Mounting Bracket for Hand Hole Applications (P/N: 8003835).**
Slide the hanger brackets into the proper slots of the Universal Mounting Bracket and snap the hinged lid into place to secure the hanger brackets.

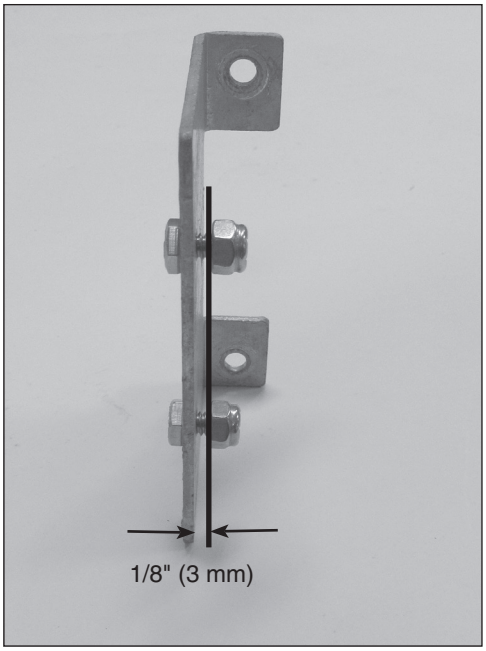


Pole/Wall Mounting Option

Step #64 The 6.5" COYOTE Dome Pole/Wall Mount Bracket (P/N: 8003702).

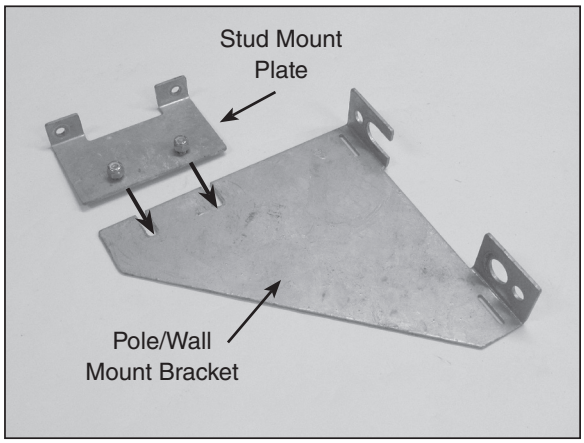
Position the bolts through the stud mount plate as shown, and install lock nuts on bolts until there is a 1/8" (3 mm) gap between the nut and the stud mount plate.

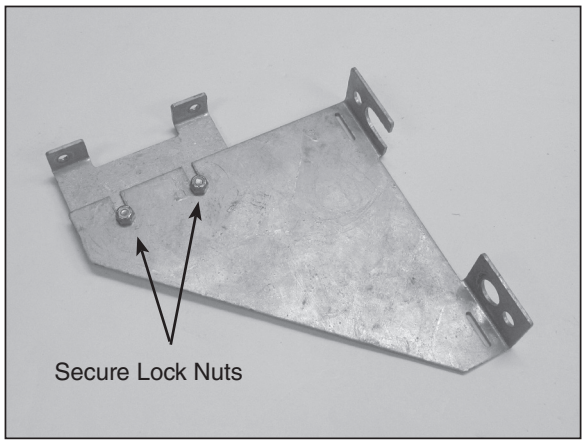




Step #65 The 6.5" COYOTE Dome Pole/Wall Mount Bracket (P/N: 8003702).

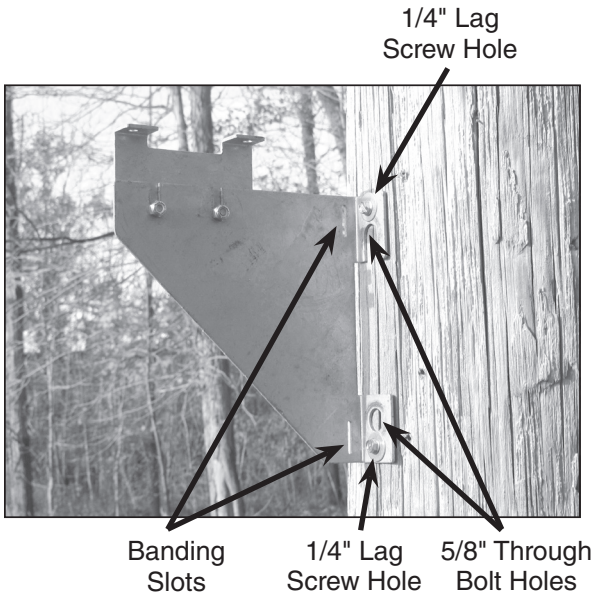
Slide the bolts of stud mount plate into the slots of the pole/wall mount bracket as shown and tighten the lock nuts until the plates are secure.





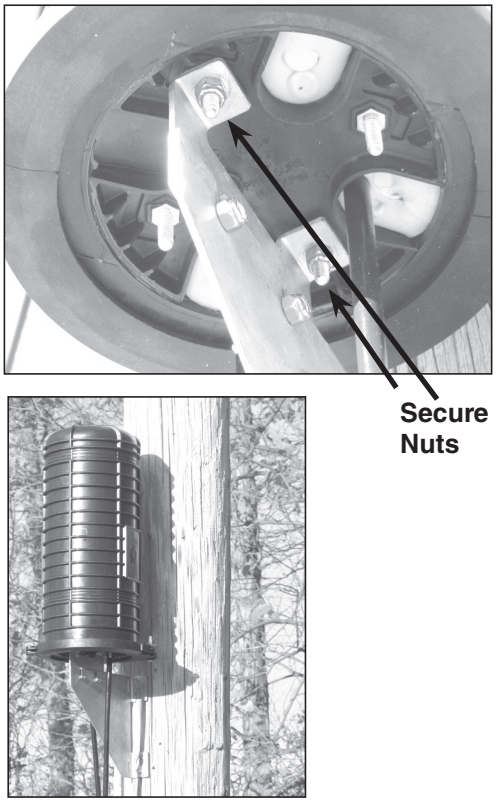
Step #66 **The 6.5" COYOTE Dome Pole/Wall Mount Bracket (P/N: 8003702).**

Attach the dome pole/wall mount bracket to a pole or wall with either 5/8" through bolts, 1/4" lag screws, or banding straps.



Step #67 **The 6.5" COYOTE Dome Pole/Wall Mount Bracket (P/N: 8003702).**

Attach the COYOTE Dome closure to the pole/wall mount bracket by inserting the studs of the dome closure end plate through the stud holes of the stud mount plate and securing with the lock nuts provided.



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

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

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