INSTALLATION INSTRUCTIONS

Dome Closure 6-1/2” x 17”

Be sure to read and completely understand this procedure before applying product. Be sure to purchase the proper Panduit Splice Tray before application.

NOMENCLATURE

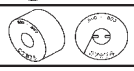
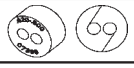
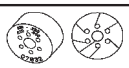
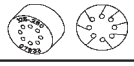
1. Dome cover (1)
2. Organizer with 4-Port End Plate Assembly
3. Dome Gasket (1)
4. Dome Collar (1)
5. Silicone Lubricant (4 five gram packets)
6. Cable Grommet (2)
7. Hose Clamp (4)
8. Strength Member Bracket (2)
9. Disposable Glove (1)

TOOLS REQUIRED

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

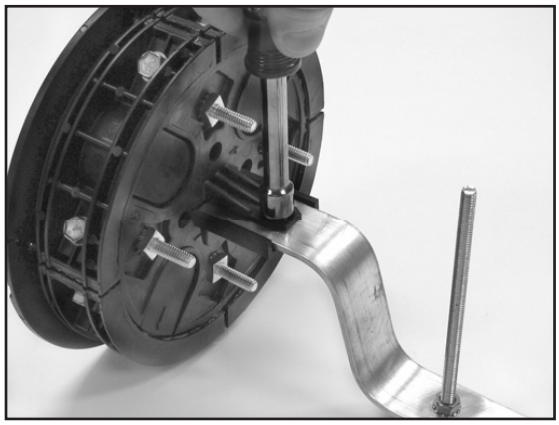
6.5” x 17” Dome Closure Kits	
Catalog Number	Description
OFCD6517BF	6.5” x 17” Dome Closure for Buffer Tube Applications. Includes: (2) Grommets, (1) Buffer Tube Organizer Assembly with 4-Port End Plate Assembly, (1) Dome, (1) Collar Assembly, (1) Gasket, (1) Small Parts Bag

Splice Tray/Closure Capacities for 6.5”x17” Dome Closures				
Splice Tray	Part #	Splice Type	Trays per Closure	Closure Splice Capacity
Low Profile (24 ct)	OFC24SST	Single Fusion	6	144
(40 ct)	OFC40SST	Single Fusion	3	120

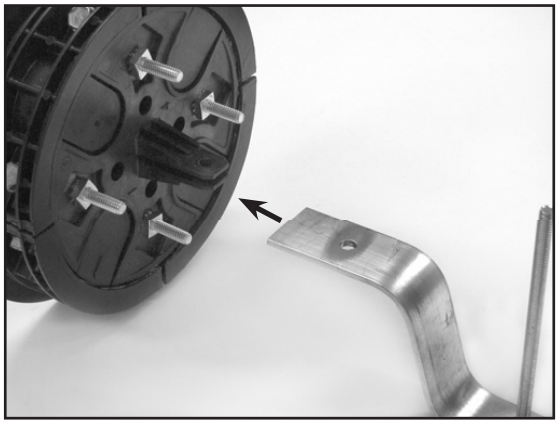
Pedestal Grommet Chart For use in Dome & In-Line Closures		
Cable Range Inches (mm)	Description	Splitting Location
.42 - .60 (11 - 15 mm)	1-entry grommet	
.60 - .85 (15 - 22 mm)	1-entry grommet	
.85 - 1.0 (22 - 25 mm)	1-entry grommet	
1.0 - 1.25 (25 - 32 mm)	1-entry grommet	
.42 - .60 (11 - 15 mm)	2-entry grommet	
.30 - .43 (8 - 11mm)	4-entry grommet	
.250 - .312 (6.4 - 7.9 mm)	4-entry grommet	
.50 - .60 (12.7 - 15.2 mm) .125 - .25 (3.2 - 6.4 mm) and flat drop	4-entry grommet	
.125 - .25 (3 - 6 mm)	6-entry grommet	
.42 - .60 (11 - 15 mm) .125 - .25 (3 - 6 mm)	7-entry grommet	
.125 - .25 (3 - 6 mm)	8-entry grommet	
NOTE: Grommet Kit contains (1) Grommet, (1) Cable Measure Tape, (2) Silicone Lubricant Packs, (1) Set of Plugs & (1) Glove		

End Plate Preparation

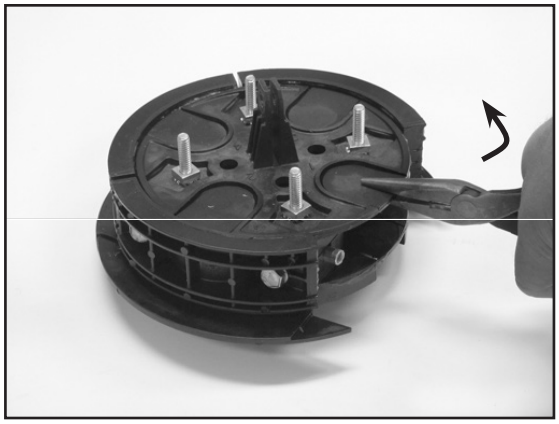
Step #1 Remove support bar mounting clip from organizer assembly.



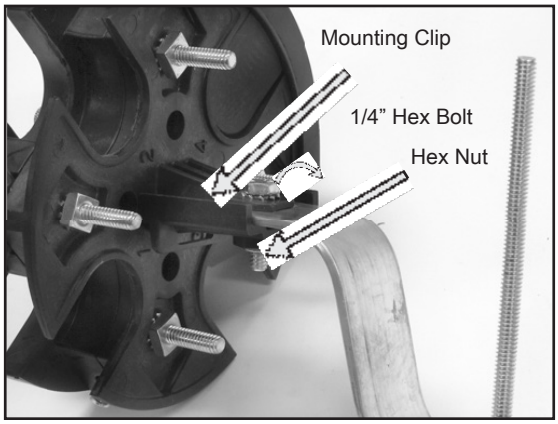
Step #2 Remove end plate from organizer assembly.



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



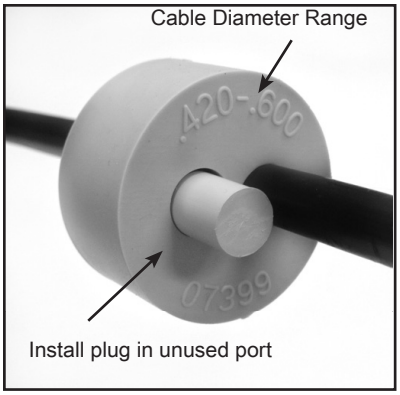
Step #4 Reassemble organizer assembly to end plate with mounting clip and 1/4" hex bolt and nut.



Cable Preparation

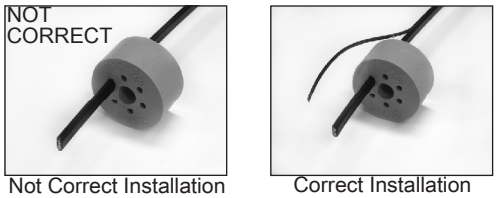
Step #5 Measure cable to determine diameter and hole location to use in grommet.

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.



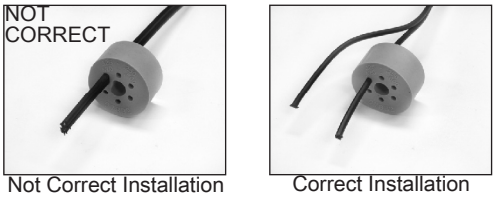
Step #6b Installing Figure 8 Style Cables and Cables with Tracer Wires - Remove tracer wire or ground wire from the portion of the cable that will be positioned in the grommet and insert cable into grommet.

Cable with Tracer Wire



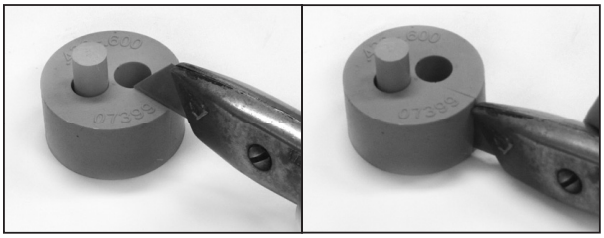
Not Correct Installation | Correct Installation

Figure 8 Style Cable

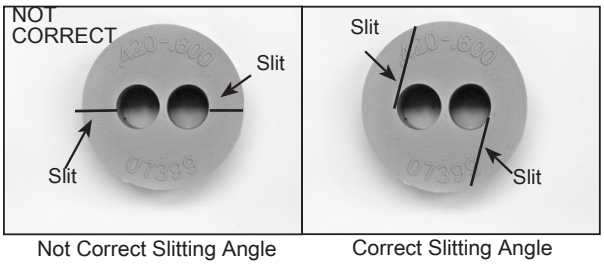


Not Correct Installation | Correct Installation

Step #7 Grommet Slitting – If slitting is required, lay grommet on a stable flat surface. Position utility knife with the cutting edge against the top surface and cut through grommet. Consult grommet chart on page 2 for slitting locations of all grommets.

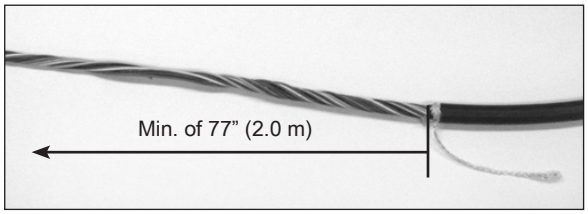


Tip: Use a pen to sketch slitting lines on top surface of grommet prior to cutting.



Not Correct Slitting Angle | Correct Slitting Angle

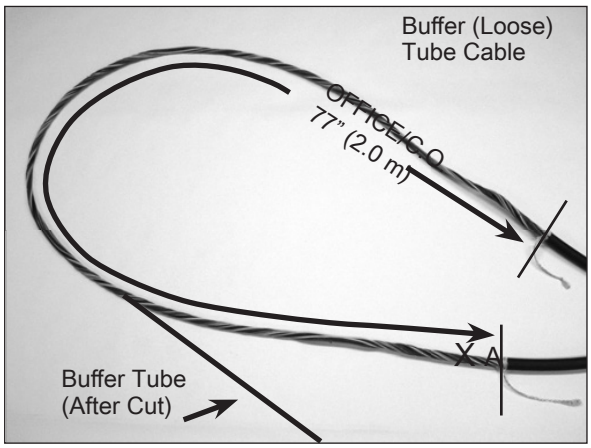
Step #8 Prepare loose tube/buffer tube cable(s) for cut applications.



Minimum Sheath Opening for Cut Cable Applications	
Min. of 77”	2.0 m

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

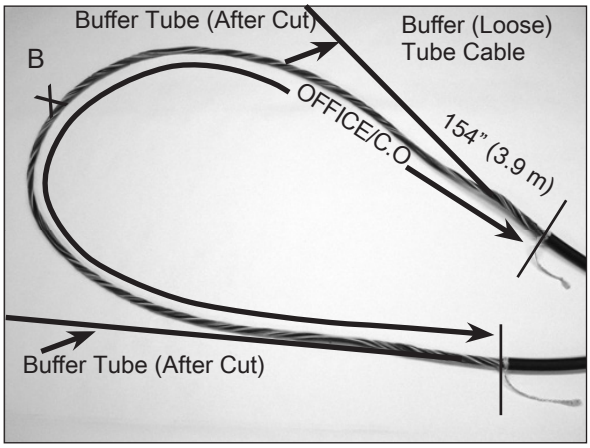
Step #9a Prepare loose tube/buffer tube cable(s) for mid sheath applications (Express/Balloon/Ring Cut).



For Applications Where Fiber is Dedicated to the Splice Point	
Sheath Opening	Min. of 77” (2.0 m)
Fiber/Buffer Tube Cut Location	A (see image above)

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

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

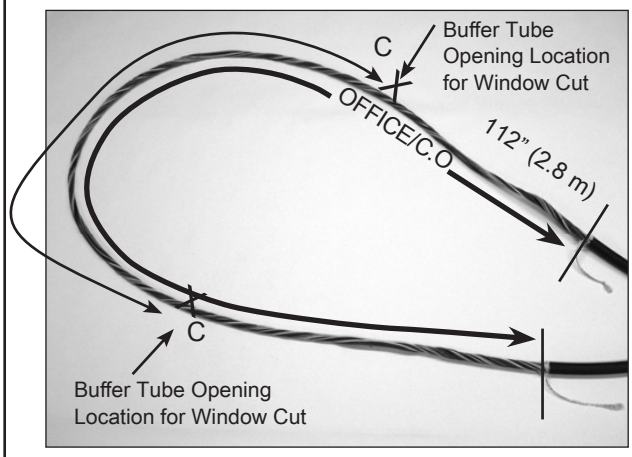


For Applications Where Fiber is NOT Dedicated to the Splice Point	
Sheath Opening	Max. of 154” (3.9 m)
Fiber/Buffer Tube Cut Location	B (see image above)

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

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

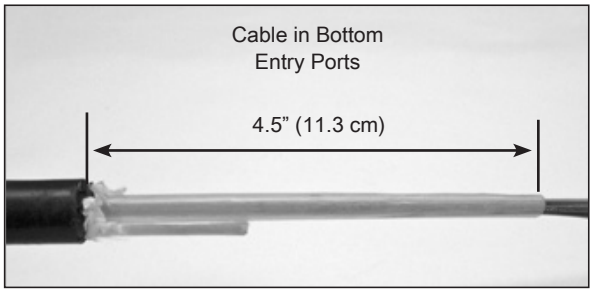
Step #9c Prepare loose tube/buffer tube cable(s) for expressed fiber (buffer tube window cut).

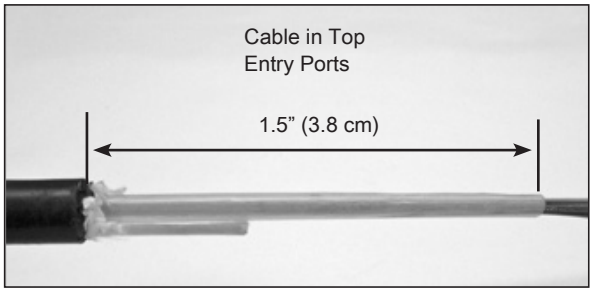


For Applications Where Fiber is Expressed through the Buffer Tube	
Sheath Opening	112” (2.8 m)
Buffer Tube Opening Location	C (see image above)

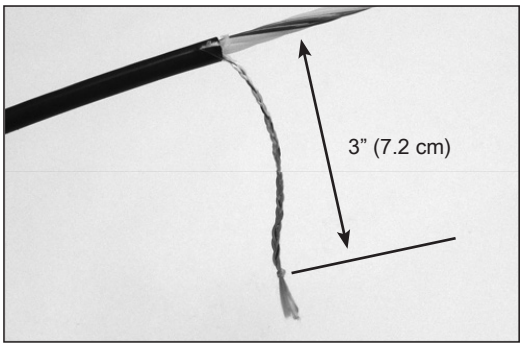
Tip: Leave about 8” (203 mm) of strength member to trim later.

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

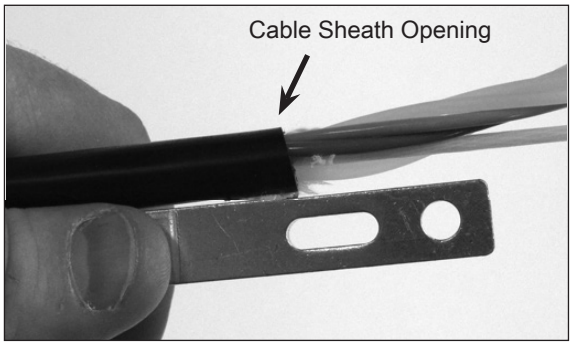




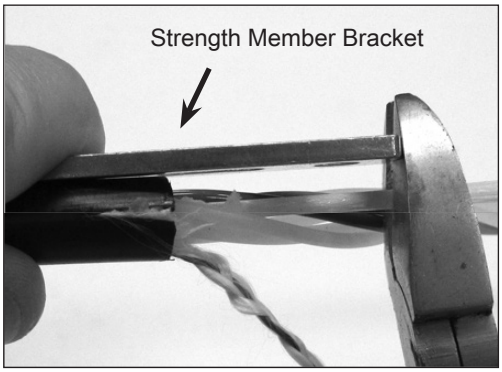
Step #11 If the cable contains Kevlar®, braid roughly 3" (7.2 cm) of the Kevlar.



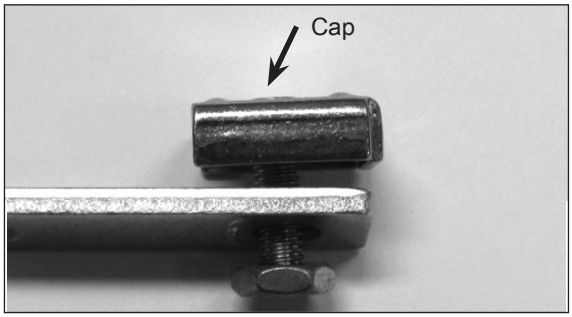
Step #12 Align sheath opening with end of slot of the strength member bracket as shown.



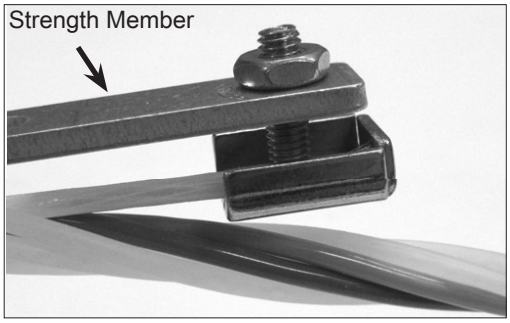
Step #13 Trim strength member(s) flush with end of the strength member bracket(s).



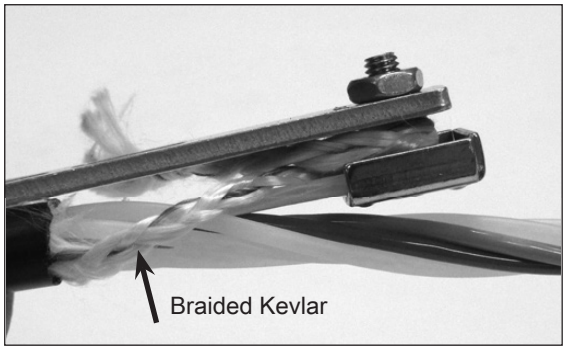
Step #14 Install cap on strength member bracket.



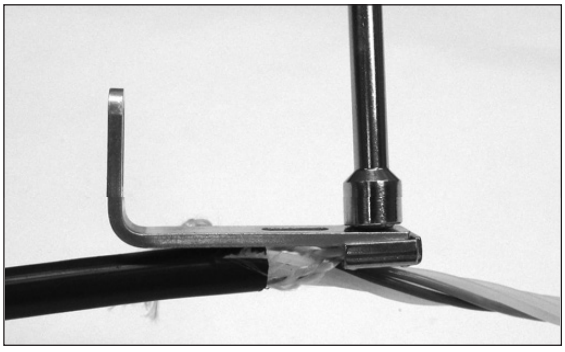
Step #15 Position strength member under cap of strength member bracket.



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

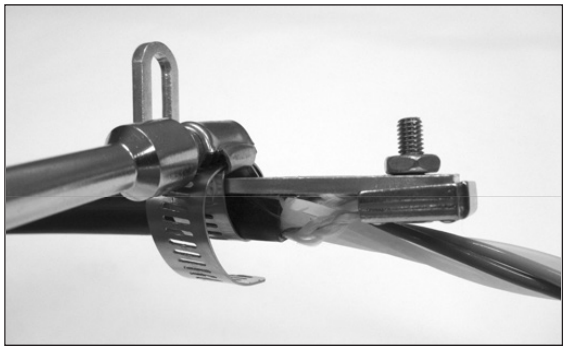


Step #17 Tighten nut of cap to secure strength member and braid under the cap.



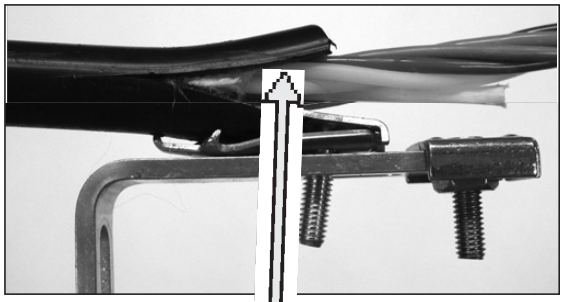
Kevlar® is a registered trademark of DuPont.

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



Attaching Shielded Cable to Strength Member Bracket

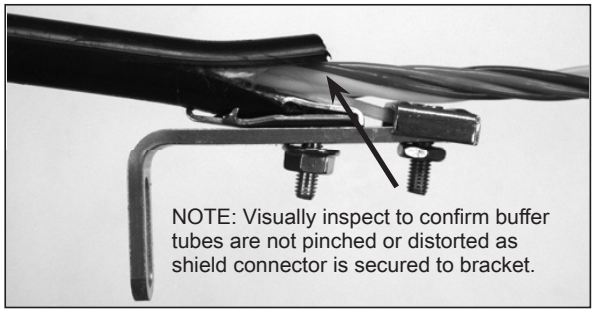
Step #19 For shielded cable applications, Panduit recommends using a 3M 4460-D/FO Fiber Optic Shield Connector (PN: 80803989). Install shield connector on cable and insert stud of shield connector through slot of strength member bracket.



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

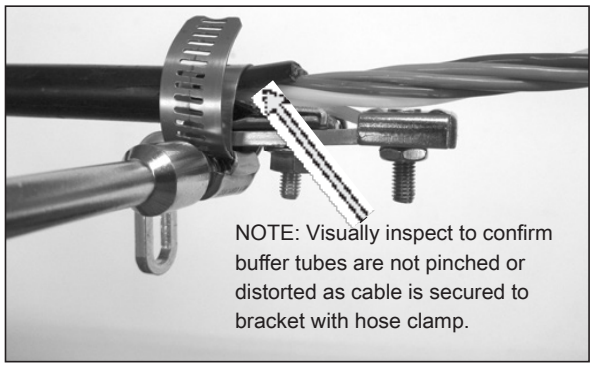
Follow standard company practices when applying shield connector to cable.

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



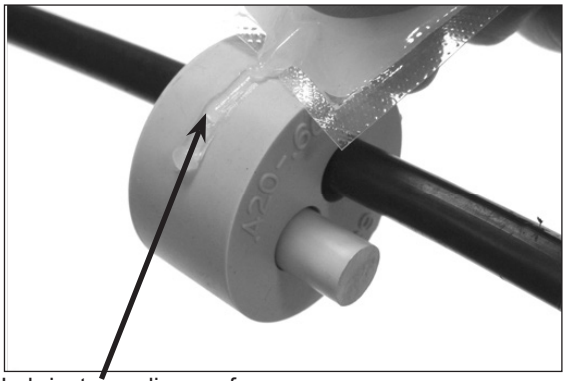
NOTE: Visually inspect to confirm buffer tubes are not pinched or distorted as shield connector is secured to bracket.

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



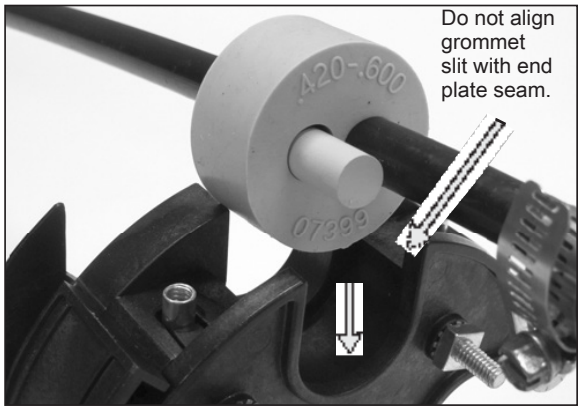
NOTE: Visually inspect to confirm buffer tubes are not pinched or distorted as cable is secured to bracket with hose clamp.

Step #22 Lubricate the outer surface of the grommet.



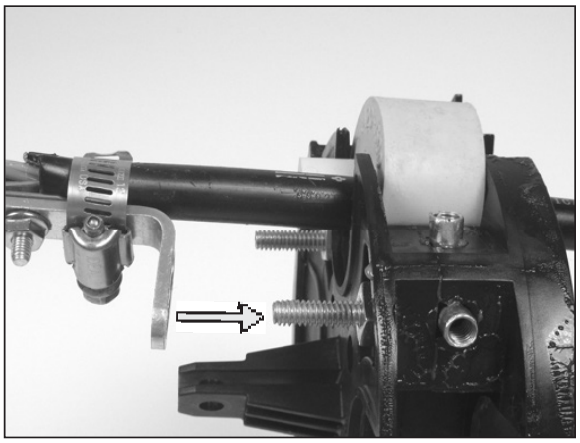
Lubricate sealing surface of grommet with silicone lubricant provided.

Step #23 Position grommets in end plate slots.

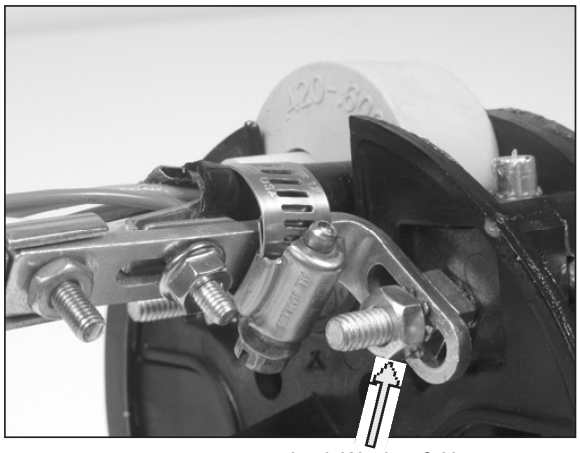


Do not align grommet slit with end plate seam.

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



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



Lock Washer & Nut

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

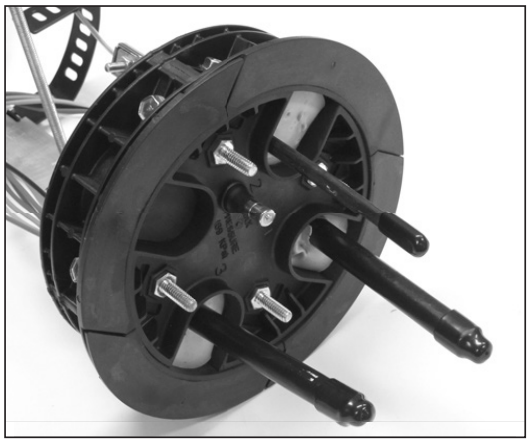
NOTE: Tighten bolts by hand evenly until cable cap is fullyseated(DONOTUSEPOWERTOOLSTOTIGHTEN BOLTS).

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

NOTE: TIGHTEN ALL UNUSED CABLE CAPS.

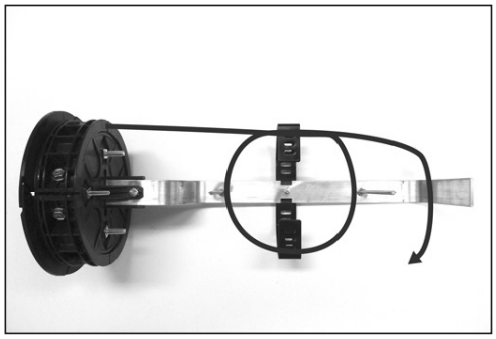
IMPORTANT:TIGHTENDOWNTHESTRENGTHMEMBER BRACKET AFTER THE CAPS ARE TIGHTENED.

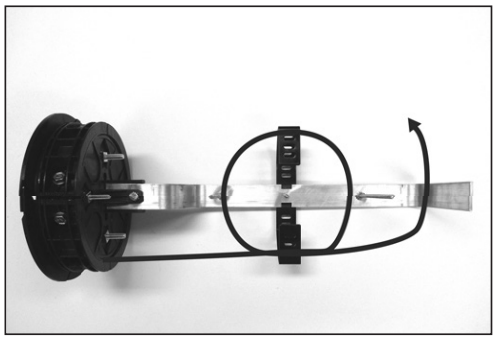
Step #27 Complete end plate assembly.



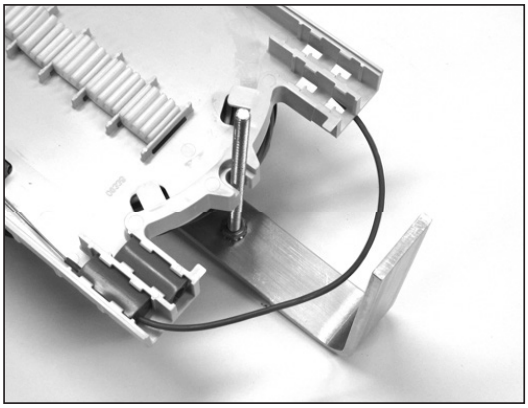
Buffer Tube Applications

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



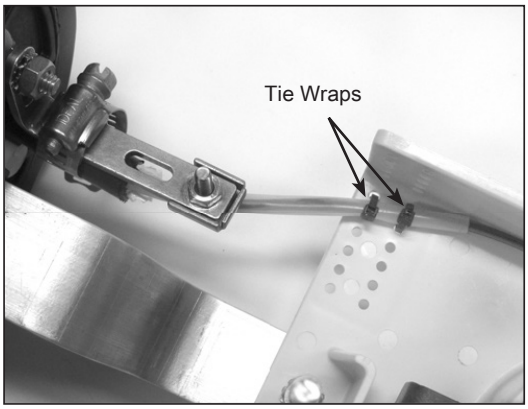


Step #29 Route buffer tube(s) to splice tray(s) and secure.

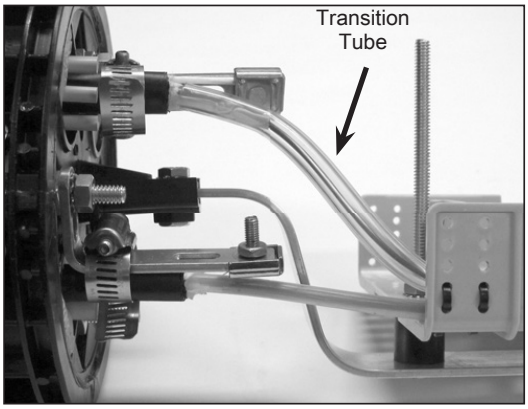


Unitube Applications

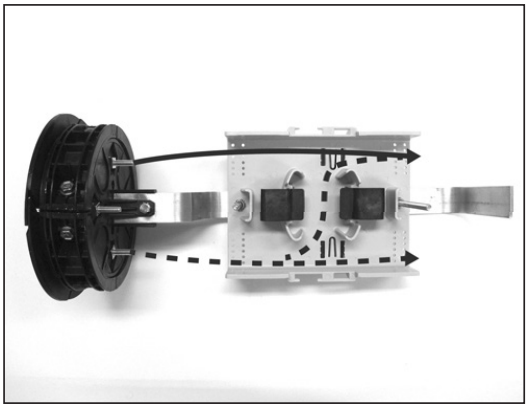
Step #30 Route and secure central tube of unitube cables to transition tray.



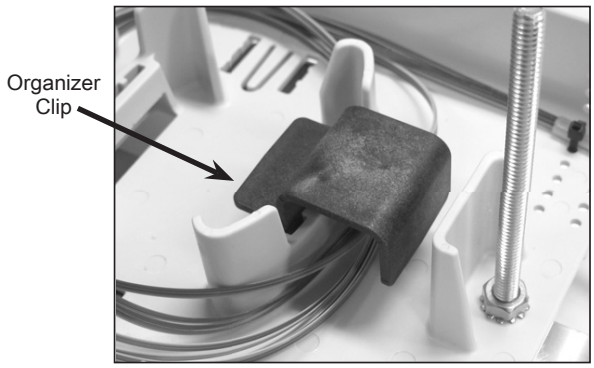
Step #31 Use transition tubes to route fibers from upper cable ports.



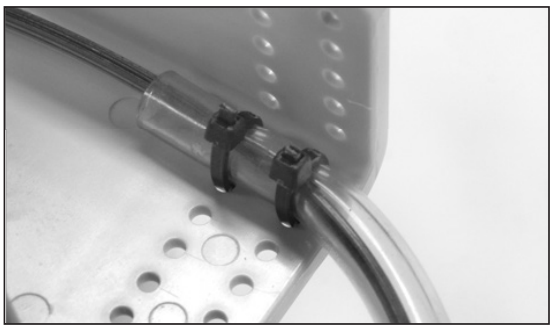
Step #32 Route feeder fibers within transition tray.



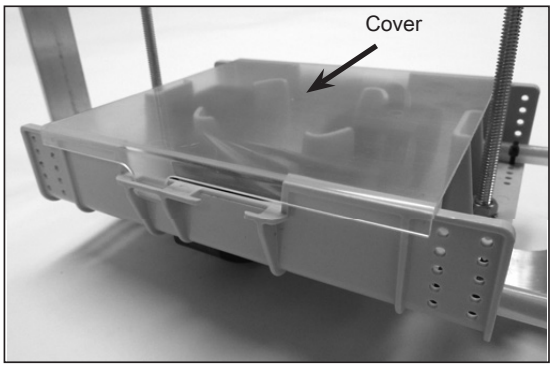
Step #33 Route express fibers under clips.



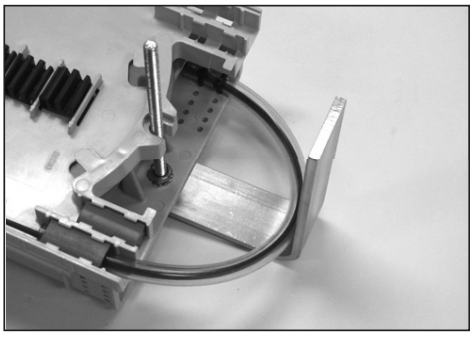
Step #34 Insert fibers to be routed to splice tray(s) into transport tube(s) and secure tubes to transition tray.



Step #35 Install cover on transition tray.



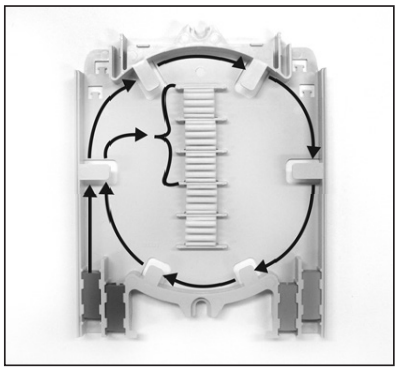
Step #36 Route transport tube(s) to splice tray(s) and secure.



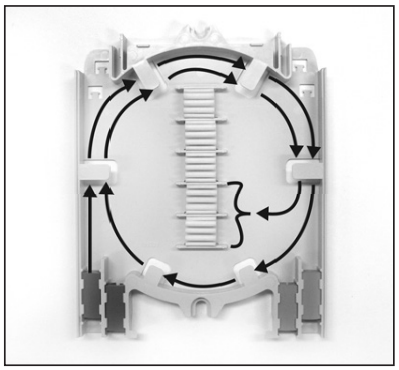
Splice Tray Management

Step #37 Route incoming fibers in splice tray.

Splices
1-12
21-32

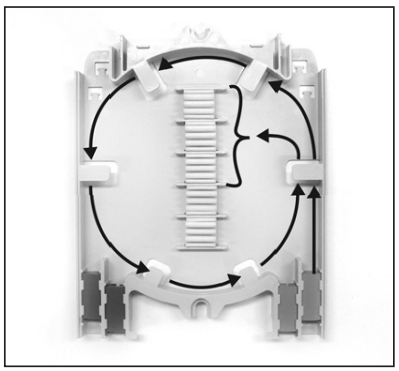


Splices
13-20
33-40

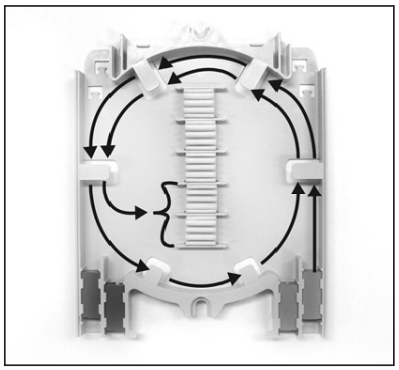


Step #38 Route outgoing fibers in splice tray.

Splices
1-12
21-32

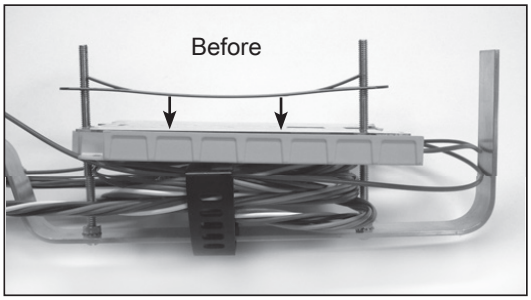


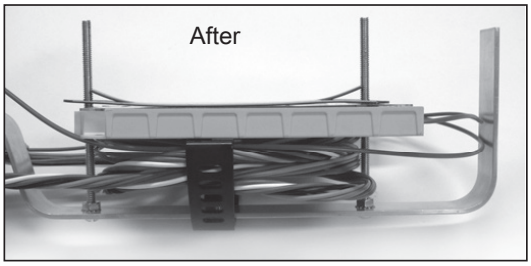
Splices
13-20
33-40



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

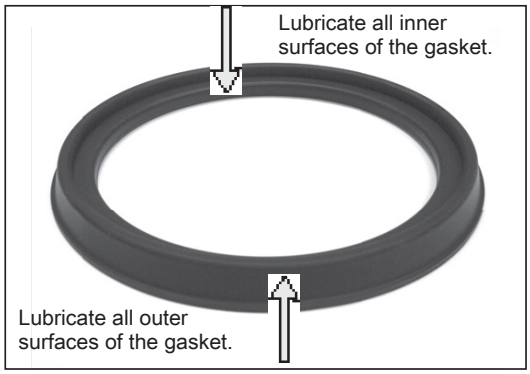
Step #40 Secure splice tray(s) with hold down strap.



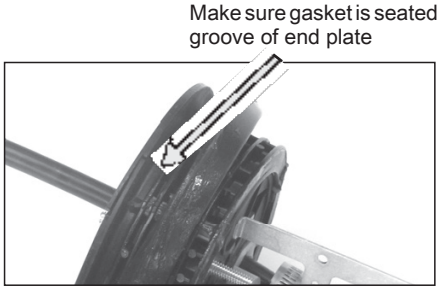


Dome & Collar Installation

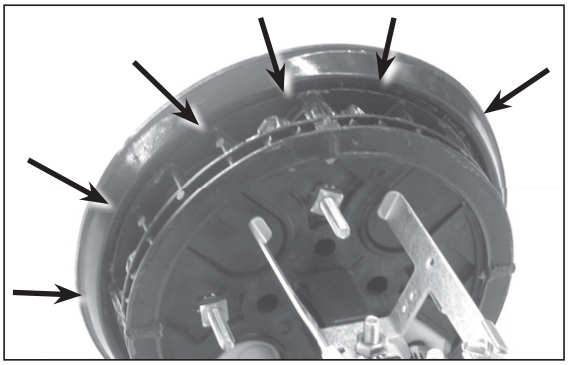
Step #41 Lubricate all surfaces around gasket with silicone lubricant to assure easy assembly and closure re-entry.



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

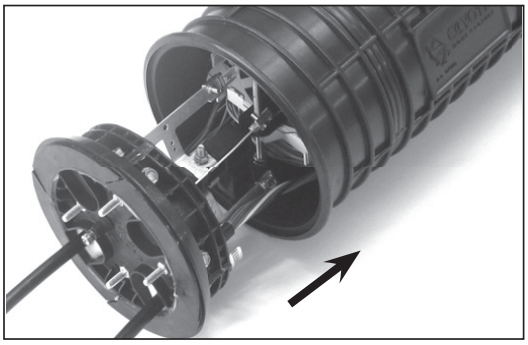


Step #43 Work the gasket into the groove.

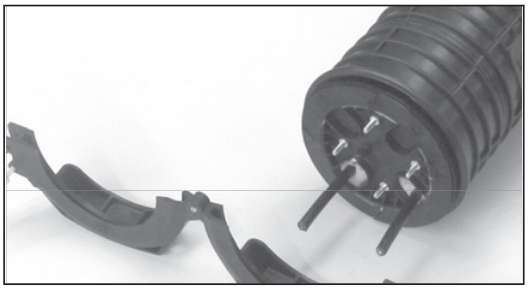


Step #44 Re-tighten all cable cap bolts (step #26) to assure that the cable caps are fully seated. When using a can wrench or nut driver, the installed torque is 35 to 40 in-lbs.

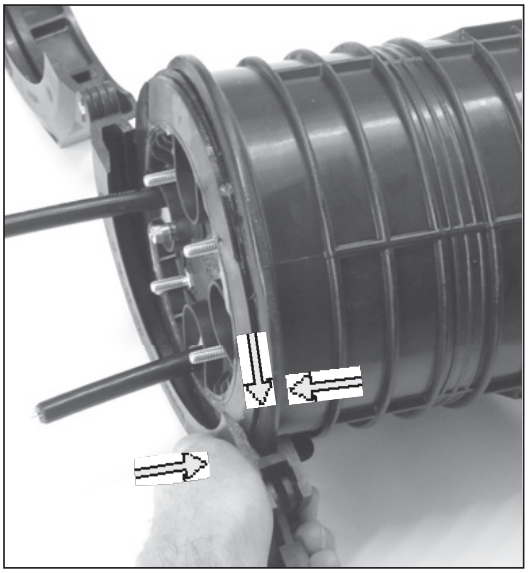
Step #45 Position the dome over end plate.



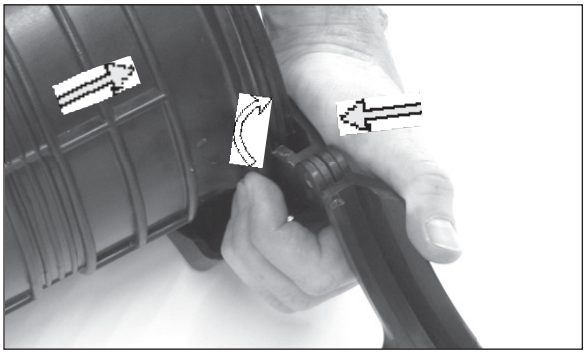
Step #46 Position the collar flat on the work surface in front of the closure as shown below.



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.

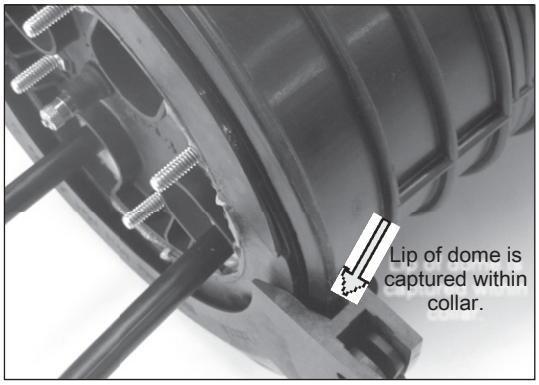


Step #48 While holding the collar in place, push against the end of the dome and slightly lift and push the other half of the dome up and over the lip of the collar with your fingers to fully install the dome in the collar half.

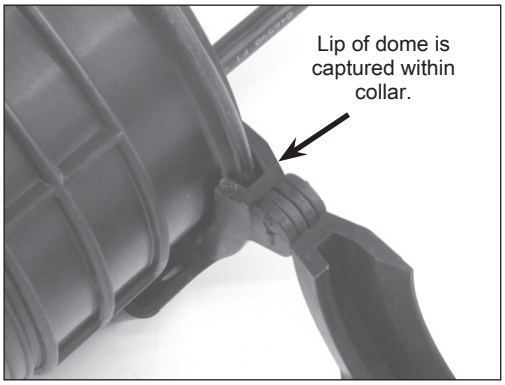


Step #49 Check to make sure the lip of the dome is captured within the collar half

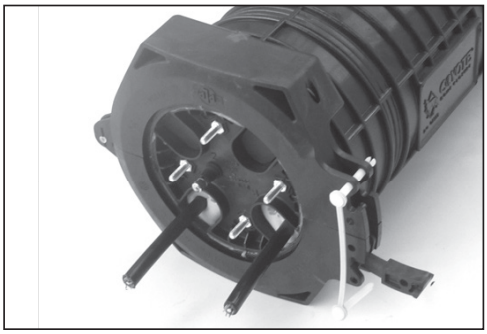
Front Side



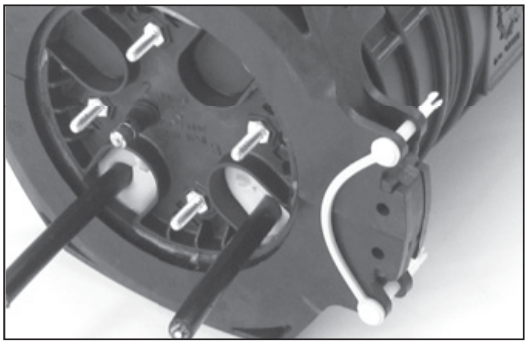
Back Side



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 cap from air valve of end plate.

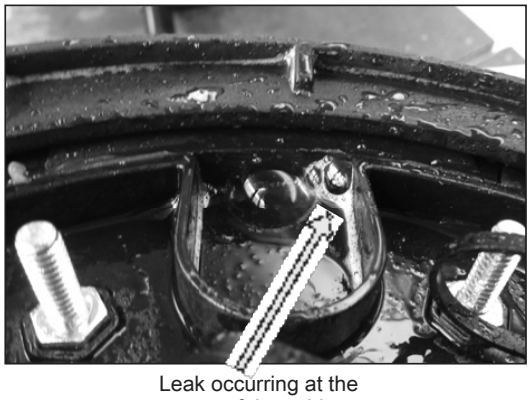
Step #53 Pressurize closure up to a max of 10 psi.

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

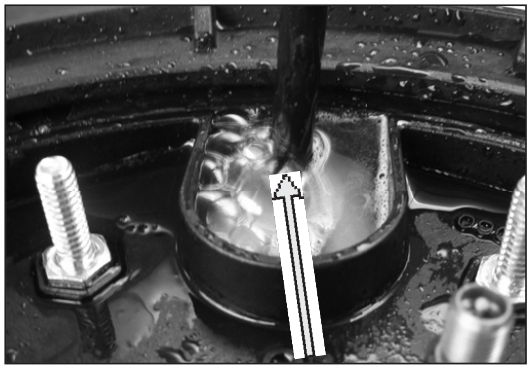
Leak occurring at the corner of the cable port due to the cap of the cable port not being fully tightened.



Leak occurring at the corner of the cable port

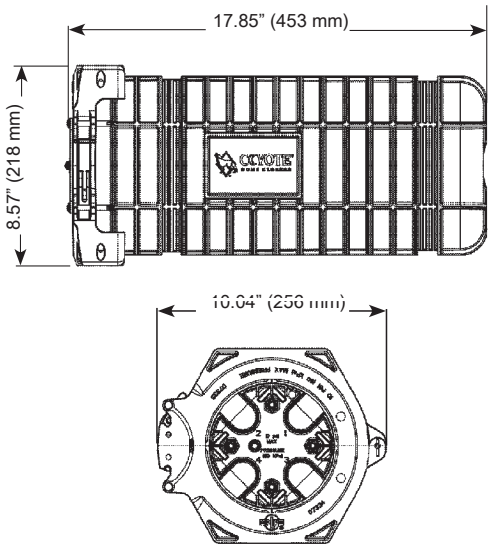
To resolve, remove collar, remove End Plate/ Organizer Assembly from the Dome, and tighten bolts on end cap where leak occurred. Reassemble and flash test to confirm that the leak has stopped.

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.



SAFETY CONSIDERATIONS

This application procedure is not intended to supersede any company construction or safety standards. This procedure is offeredonlytoillustratesafeapplicationfortheindividual.FAILURETOFOLLOWTHESEPROCEDURESMAYRESULTINPERSONAL 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 product before application.

To insure proper performance, the products should be stored in cartons under cover and handled carefully.