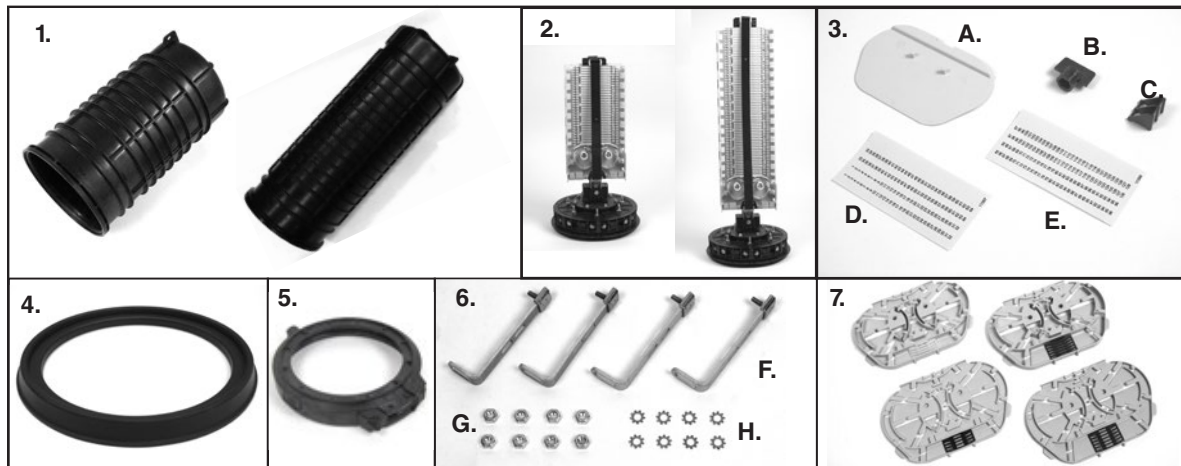




COYOTE® 9.5" (292 mm) Dome Closure with SFMS (Single Fiber Management System)

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



NOMENCLATURE

- | | |
|---|--|
| <ul style="list-style-type: none"> 1. Dome Cover – 19" (292 mm) or 28" (749 mm) (1) 2. SFMS Organizer with 7-Port End Plate – 19" (292 mm) or 28" (749 mm) Assembly (1) 3. SFMS Small Parts Bag (2) <ul style="list-style-type: none"> A. Splice Tray Cover (1) B. Nut Driver (1) C. Splice Tray Support Bracket (1) D. Splice Tray ID Label for Trays 1-64 (1) E. Splice Tray ID Label for Trays 65-128 (1) 4. Dome Gasket (1) 5. Dome Collar (1) | <ul style="list-style-type: none"> 6. Long Strength Member Bracket Kit (1) <ul style="list-style-type: none"> F. Long Strength Member Bracket Assemblies (4) G. 1/4" - 20 Nuts (8) H. External Tooth Lock Washers (8) 7. SFMS Splice Trays (Not included with kit) |
|---|--|

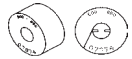









TOOLS REQUIRED

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

COYOTE® 9.5" Dome Closure Single Fiber Management System Closure Kits	
Catalog Number	Description
COYSFMS-919-001	COYOTE 9.5" x 19" (292 x 509 mm) Dome Closure SFMS with Dark Fiber Storage. Includes: (1) SFMS Organizer Assembly with Dark Fiber Storage, (1) 7-Port End Plate Assembly, (1) Dome, (1) Collar Assembly, (1) Gasket, (1) SFMS Small Parts Bag, and (1) Strength Member Bracket Kit
COYSFMS-919-002	COYOTE 9.5" x 19" (292 x 509 mm) Dome Closure SFMS without Dark Fiber Storage. Includes: (1) SFMS Organizer Assembly without Dark Fiber Storage, (1) 7-Port End Plate Assembly, (1) Dome, (1) Collar Assembly, (1) Gasket, (1) SFMS Small Parts Bag, and (1) Strength Member Bracket Kit
COYSFMS-928-001	COYOTE 9.5" x 28" (292 x 749 mm) Dome Closure SFMS with Dark Fiber Storage. Includes: (1) SFMS Organizer Assembly with Dark Fiber Storage, (1) 7-Port End Plate Assembly, (1) Dome, (1) Collar Assembly, (1) Gasket, (1) SFMS Small Parts Bag, and (1) Strength Member Bracket Kit
COYSFMS-928-002	COYOTE 9.5" x 28" (292 x 749 mm) Dome Closure SFMS without Dark Fiber Storage. Includes: (1) SFMS Organizer Assembly without Dark Fiber Storage, (1) 7-Port End Plate Assembly, (1) Dome, (1) Collar Assembly, (1) Gasket, (1) SFMS Small Parts Bag, and (1) Strength Member Bracket Kit
Accessory Kits	
80808456	COYOTE Dome End Plate Fixture
Mounting Brackets and Accessories	
8003941	Aerial Mounting Bracket (Dome Mount) - Strand Applications
8004037	Aerial Adjustable Offset Mounting Bracket (Dome Mount) - Strand Applications
8003940	Aerial Mounting Bracket (Dome Mount) - ADSS Mounting
8004038	Aerial Adjustable Offset Mounting Bracket (Dome Mount) - ADSS Applications
8003942	Pole/Wall Mounting Bracket
8003835	Universal Mounting Bracket Kit for Hand Hole Applications
8004003	Manhole Support

Splice Trays for COYOTE® 9.5" x 19" (292 x 509 mm) Dome Closure Single Fiber Management System							
Catalog Number	Tray Description	Tray Splice Count	Trays per Module	Closure Max Tray Capacity		Closure Max Splice Capacity	
				001	002	001	002
80811409	Single Circuit	4	8	64	64	256	256
80811933	Single Circuit	6	8	64	64	384	384
80811934	Single Element	8	4	32	32	256	256
80811935	Single Element	12	4	32	32	384	384

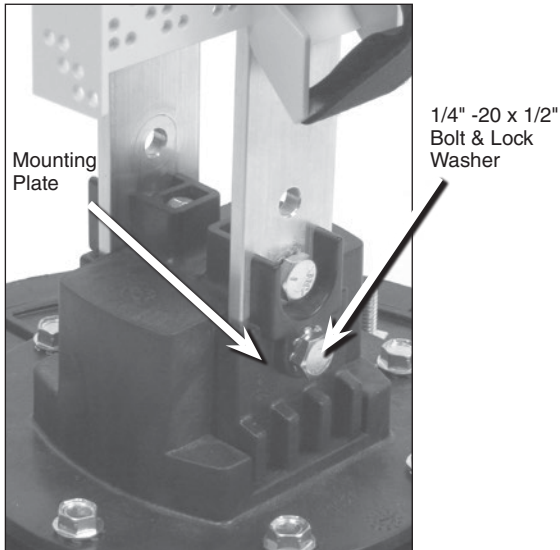
Splice Trays for COYOTE® 9.5" x 28" (292 x 749 mm) Dome Closure Single Fiber Management System							
Catalog Number	Tray Description	Tray Splice Count	Trays per Module	Closure Max Tray Capacity		Closure Max Splice Capacity	
				001	002	001	002
80811409	Single Circuit	4	8	128	128	512	512
80811933	Single Circuit	6	8	128	128	768	768
80811934	Single Element	8	4	64	64	512	512
80811935	Single Element	12	4	64	64	768	768

COYOTE® Dome Closure 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	.42 - .60 (11 - 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	
8003989	Flat Drop Only	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	

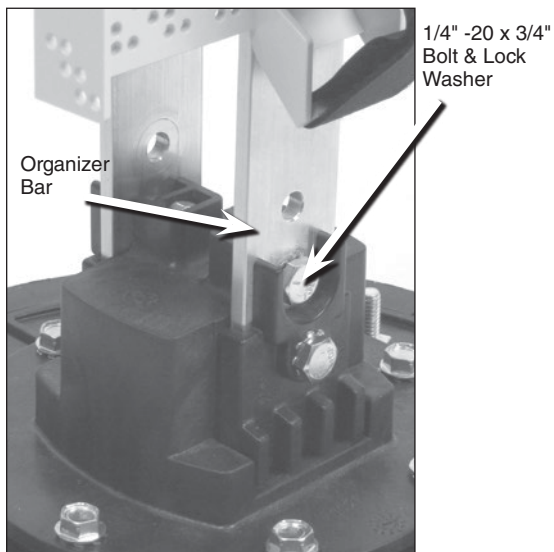
NOTE: Grommet Kit contains (1) Grommet, (1) Cable Measure Tape, (2) Silicone Lubricant Packs, (1) Set of Plugs & (1) Glove

End Plate Preparation

Step #1 Remove 1/4"-20 x 1/2" bolts and lock washers from mounting plates.



Step #2 Remove 1/4"-20 x 3/4" bolts and lock washers from organizer bars.



Step #3 Select cable ports to be used.

For buffer tube feed cables, use cable ports 3 and 6.



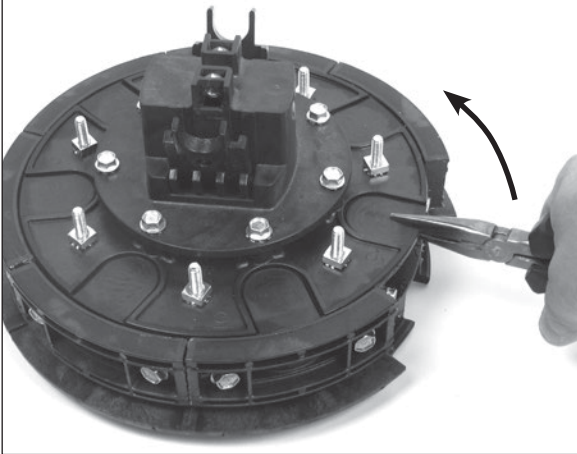
For unitube feed cables, use cable ports 4 and 5 or 2 and 7.



OR



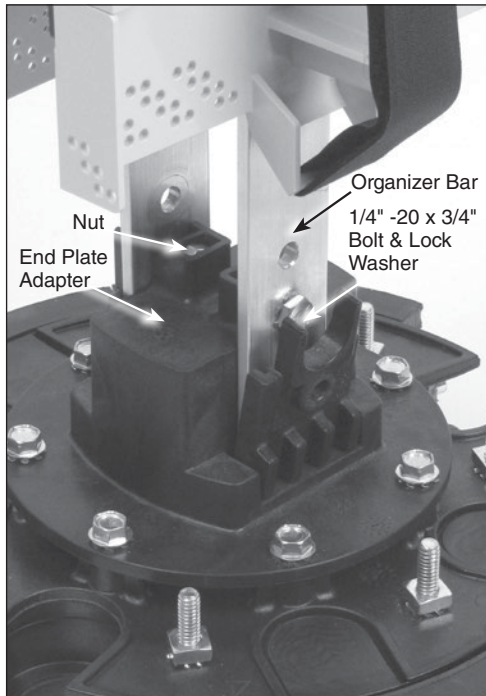
Step #4 Remove the end plate caps from the selected cable ports and break out the tabs.



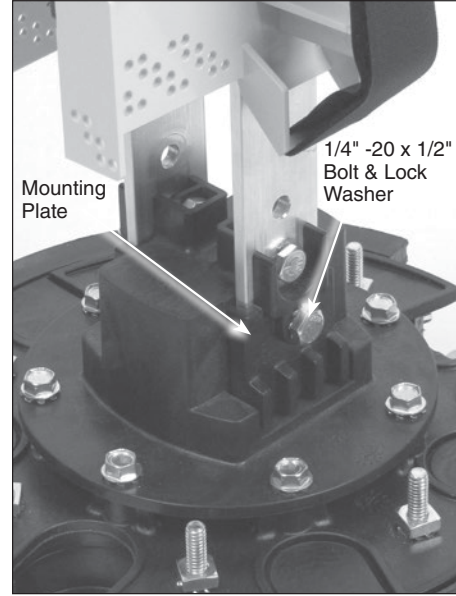
PLP Tip: Scoring edges of tabs with knife makes them break out easier.

Step #5 Secure organizer bars to end plate adapter with 1/4"-20 x 3/4" bolts and lock washers.

NOTE: Make sure that the nuts are in the nut pockets of the end plate adapters before securing the organizer bars.



Step #6 Secure mounting plates to organizer bars with 1/4"-20 x 1/2" bolts and lock washers.

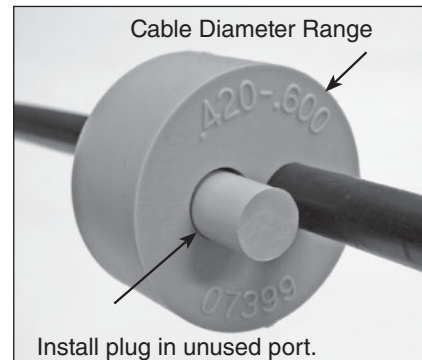


Cable Preparation

Step #7 Measure cable to determine diameter and hole location to use in grommet.



Step #8a If using cut cable, insert cable through grommet. If your application requires express/balloon/ring cut cables, see Step 9 for grommet slitting procedure.



Step #8b **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 cable into grommet.

Cable with Tracer Wire



Not Correct Installation



Correct Installation

Figure 8 Style Cable

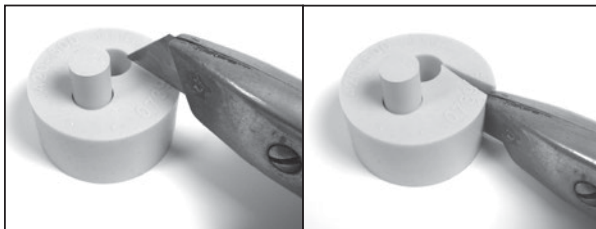


Not Correct Installation

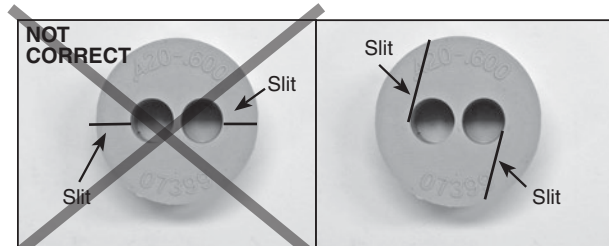


Correct Installation

Step #9 **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.**



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



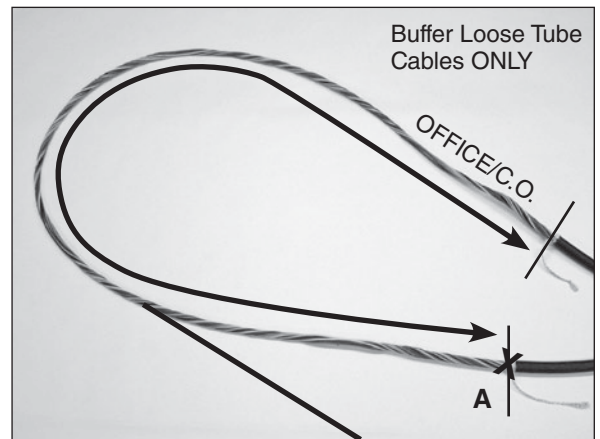
Minimum Sheath Opening for Cut Cable Applications

9.5" x 19" (292 x 509 mm) Dome	Min. of 82" (2083 mm)
9.5" x 28" (292 x 749 mm) Dome	Min. of 112" (2845 mm)

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

Step #11a Prepare loose tube/buffer tube cable(s) for mid sheath applications (Express/Balloon/Ring Cut).

NOTE: Ribbon cables can not be expressed and only up to 8 buffer tubes can be expressed in the closure.

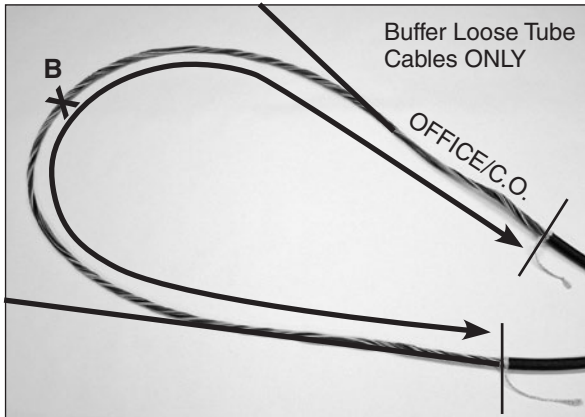


Minimum Sheath Opening for Expressed Cable Applications where Fiber is Dedicated to the Splice Point (Cut Location A)

9.5" x 19" (292 x 509 mm) Dome	Min. of 82" (2083 mm)
9.5" x 28" (292 x 749 mm) Dome	Min. of 112" (2845 mm)

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

Step #11b Prepare loose tube/buffer tube cable(s) for mid sheath applications (Express/Balloon/Ring Cut). **NOTE: Ribbon cables can not be expressed and only up to 8 buffer tubes can be expressed in the closure.**

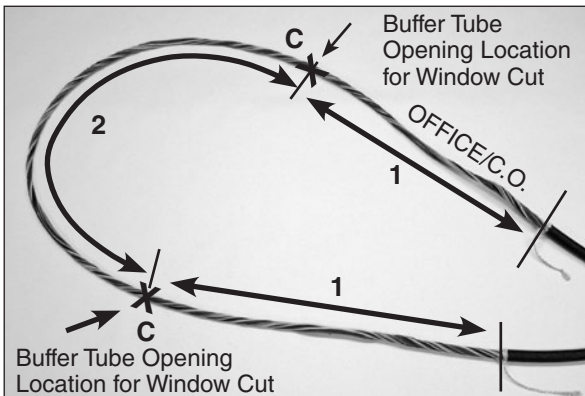


Minimum Sheath Opening for Expressed Cable Applications where Fiber is NOT Dedicated to the Splice Point (Cut Location B)

9.5" x 19" (292 x 509 mm) Dome	Min. of 164" (4166 mm)
9.5" x 28" (292 x 749 mm) Dome	Min. of 224" (5690 mm)

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

Step #11c Prepare loose tube/buffer tube cable(s) for expressed fiber (Buffer Tube window cut). **NOTE: The dark fiber storage organizer must be used for this application.** **NOTE: Ribbon cables can not be expressed and only up to 8 buffer tubes can be expressed in the closure.**

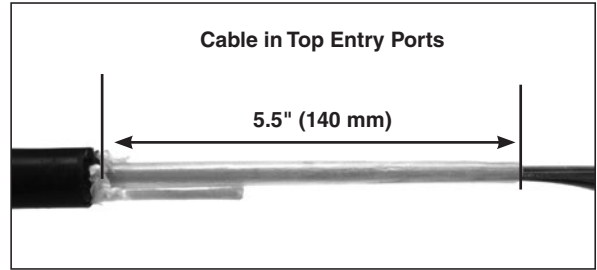


For Applications where Fiber is Expressed through the Buffer Tube (Cut Location C)

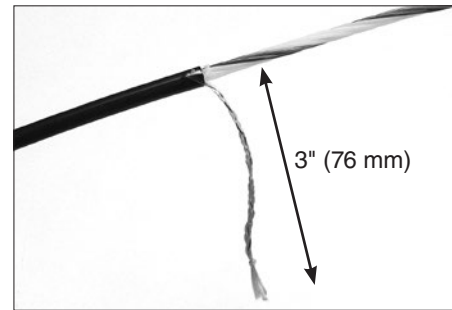
9.5" x 19" (292 x 509 mm) Dome Measurement 1	36.5" (927 mm)
9.5" x 19" (292 x 509 mm) Dome Measurement 2	52.5" (1334 mm)
9.5" x 28" Dome (292 x 749 mm) Measurement 1	57" (1448 mm)
9.5" x 28" (292 x 749 mm) Dome Measurement 2	64" (1626 mm)

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

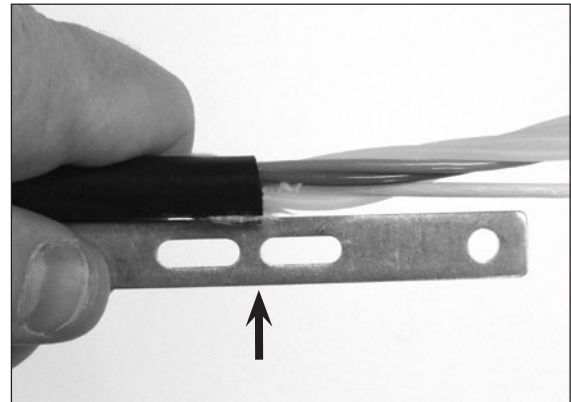
Step #12 Prepare Central/Buffer Tube(s) for Unitube/Ribbon Cable Applications



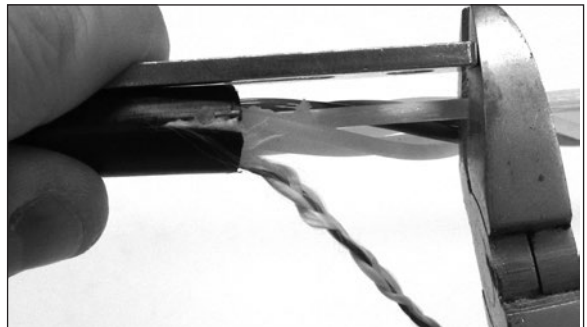
Step #13 If the cable contains Kevlar®, braid roughly 3" (7.2 cm) of the Kevlar.



Step #14 Align sheath opening with end of slot of the strength member bracket as shown.

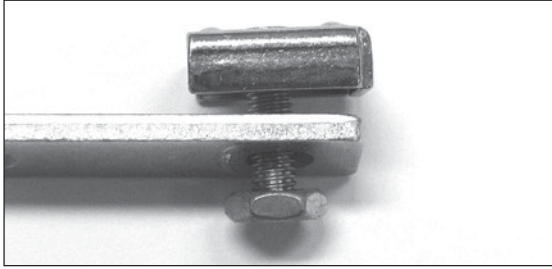


Step #15 Trim strength member(s) flush with end of the strength member bracket(s).

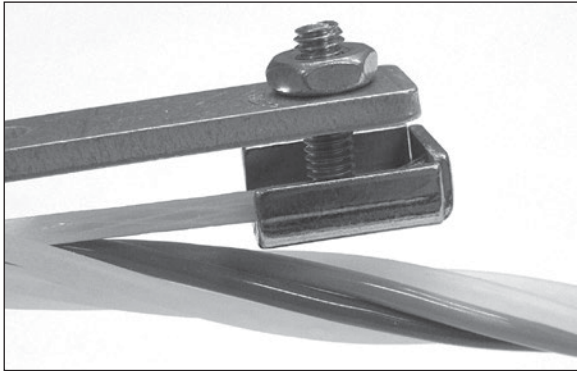


Kevlar® is a registered trademark of DuPont.

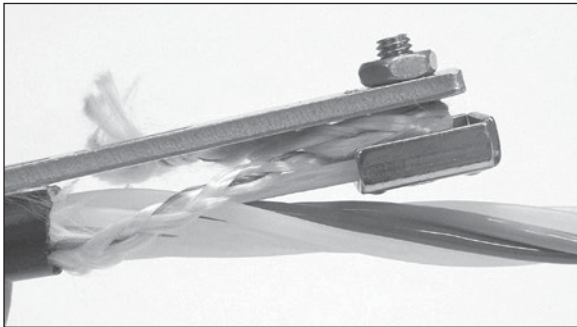
Step #16 Install cap on strength member bracket.



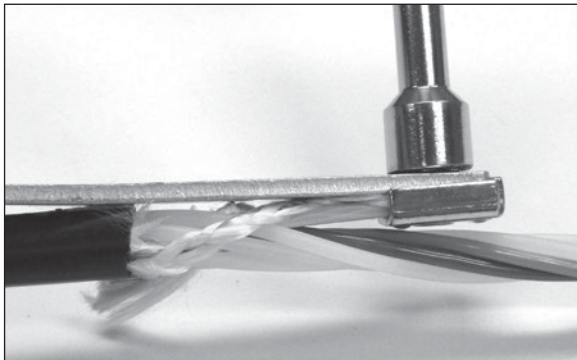
Step #17 Position strength member(s) under cap of strength member bracket.



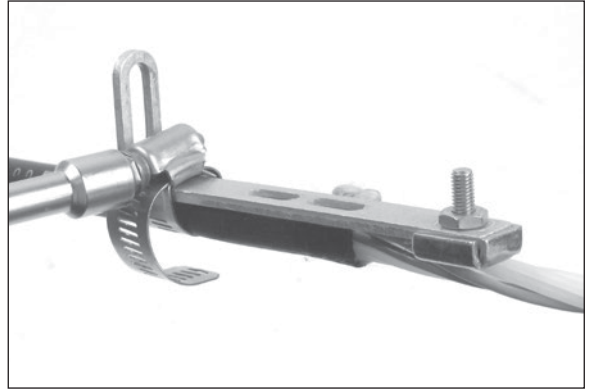
Step #18 If the cable contains Kevlar®, wrap the braided Kevlar around the stud of the cap as shown.



Step #19 Tighten nut of cap to secure strength member and braid under the cap.

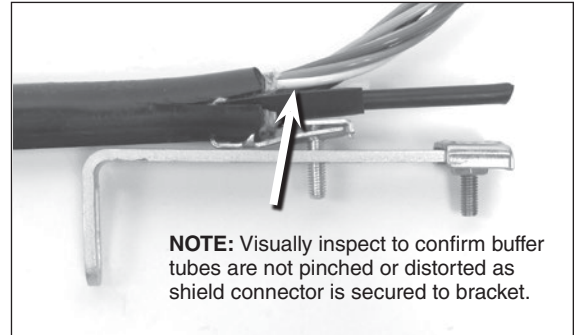


Step #20 Secure cable to strength member bracket with hose clamp.



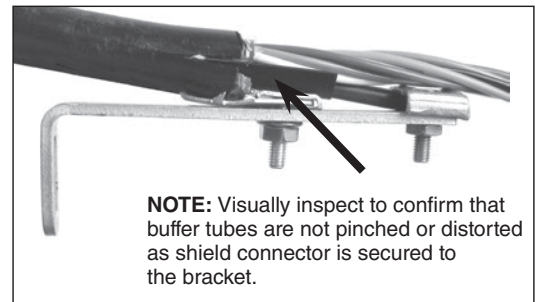
Attaching Shielded Cable to Strength Member Bracket

Step #21 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.

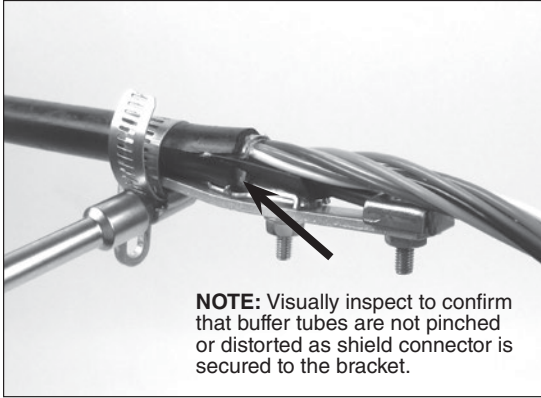


Follow standard company practices when applying shield connector to cable.

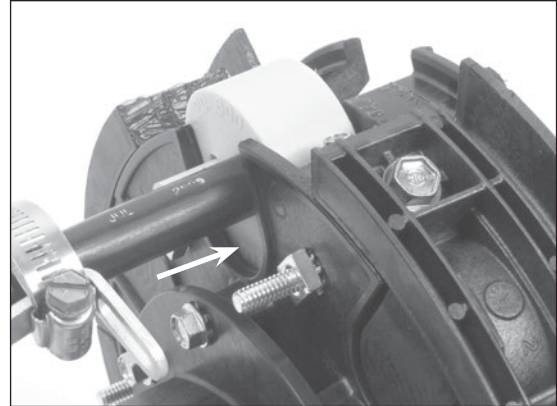
Step #22 Secure shield connector to strength member bracket with nut and secure cable strength member under cap of the strength member bracket.



Step #23 Secure shielded cable to strength member bracket with hose clamp.

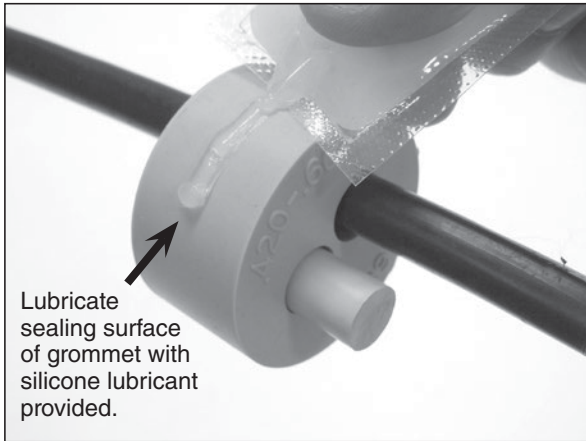


Step #26 Position slot of strength member bracket leg over stud and pull cable back.

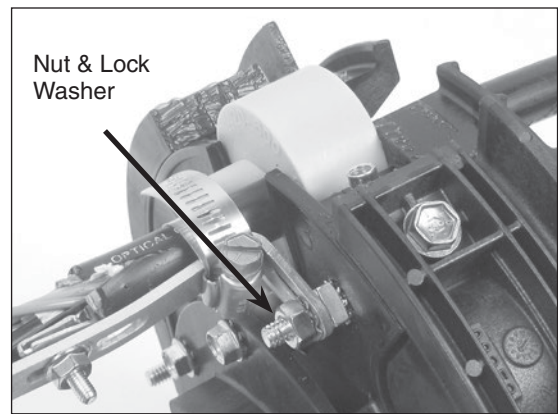


Grommet and Cable Installation in End Plate

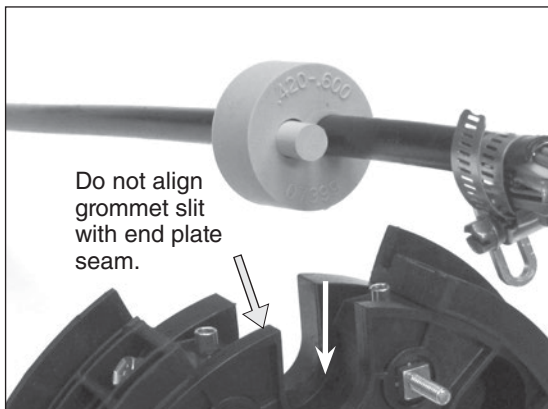
Step #24 Lubricate the outer surface of the grommets.



Step #27 Install strength member bracket on stud. Install lock washer and nut against the bracket, but do not tighten fully, so that the bracket can slide as the grommet is inserted.



Step #25 Position grommets in end plate slots.



Step #28 Install cable caps and secure with 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.

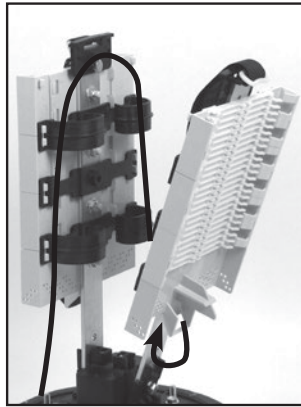
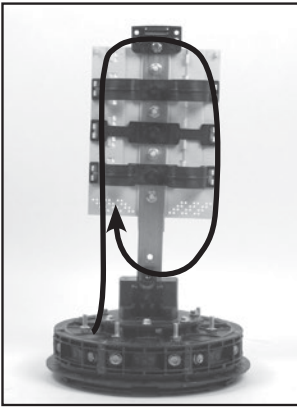
IMPORTANT: TIGHTEN DOWN THE STRENGTH MEMBER BRACKET AFTER THE CAPS ARE TIGHTENED.

Step #29 Complete end plate assembly.

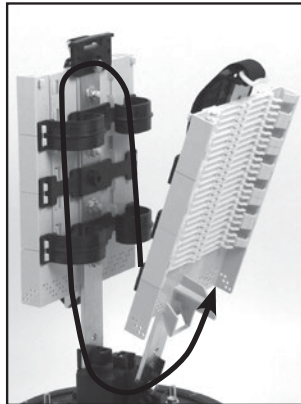
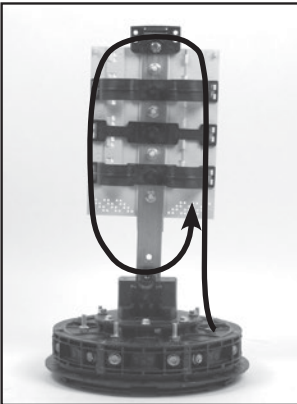


Buffer Tube Applications

Step #30 Route and store buffer tubes in storage brackets.

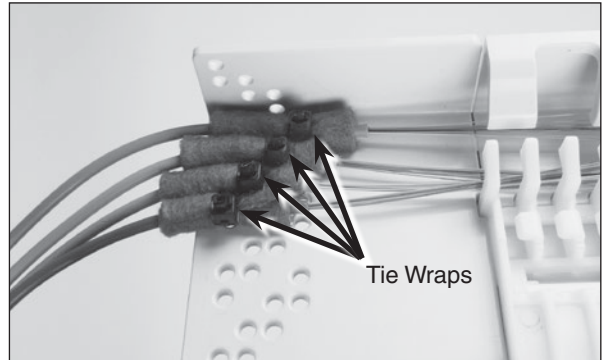


OR

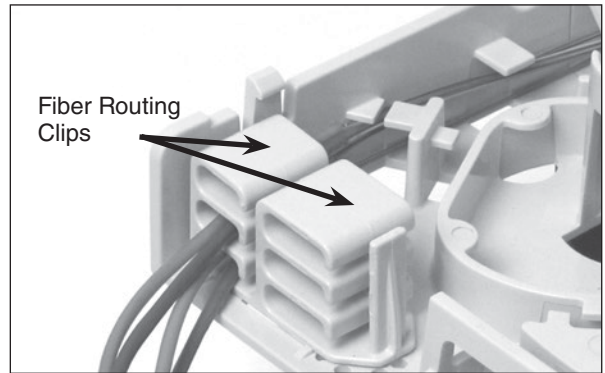


Step #31 Route buffer tube(s) to support module and secure.

Securing Buffer Tubes with Tie Wraps



Securing Buffer Tubes with Fiber Routing Clips
(Dark Fiber Storage Organizer ONLY)

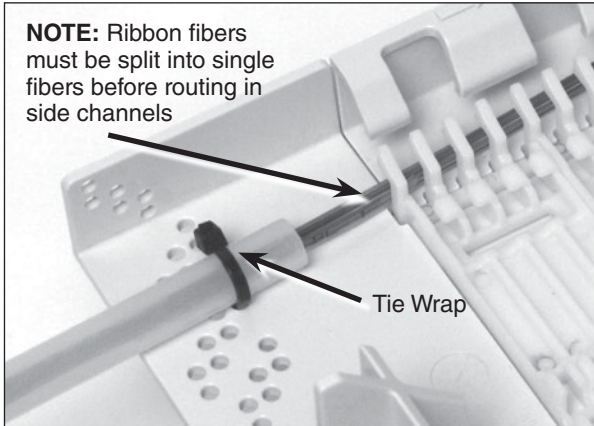


Unitube Applications

Step #32 Make sure that the unitube cables have been placed in cable ports 4 and 5 or 2 and 7 (See Step 3)

Step #33 Route the central tube of unitube cables directly to the support module and secure with tie wrap.

NOTE: Ribbon fibers must be split into single fibers before routing in side channels

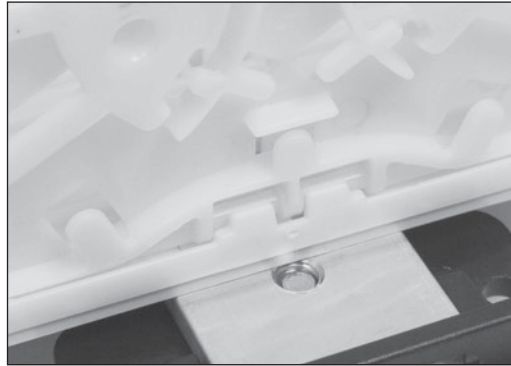
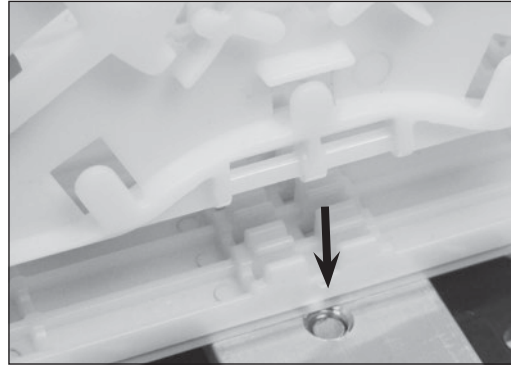


Installing Splice Trays in Organizer

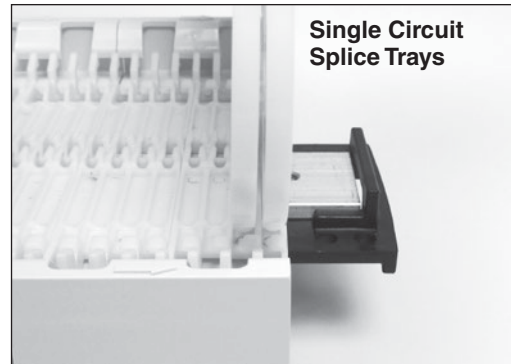
Step #34 Place the first splice tray at the top of the organizer and position the splice tray perpendicular to the organizer as shown below.



Step #35 Insert the hinge portion of the splice tray into the receiving portion of the organizer.

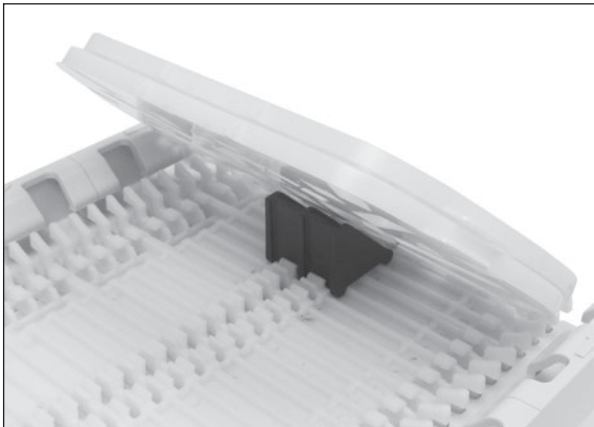
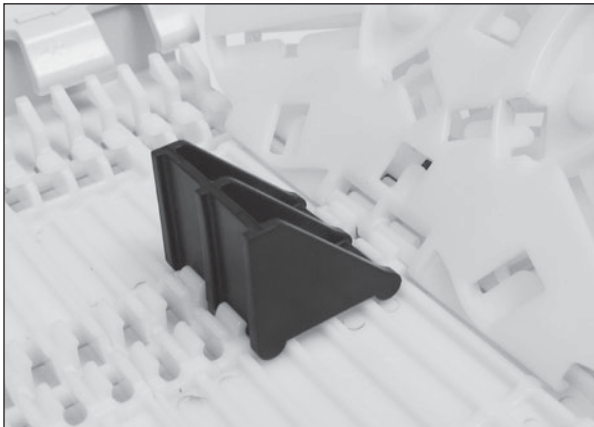
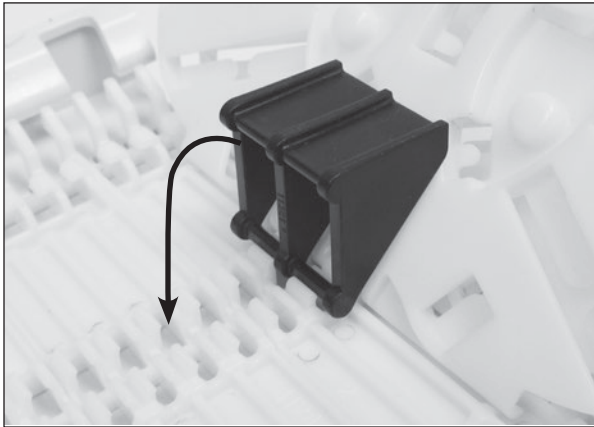


Step #36 Place single circuit splice trays in consecutive hinge positions. Place single element splice trays in alternating hinge positions.



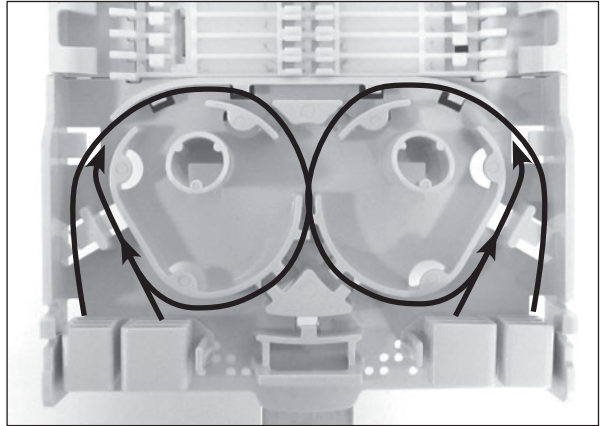
Step #37

If the organizer is not fully populated with splice trays, install the splice tray support bracket in the hinge position underneath the bottom splice tray as shown below. Rotate the splice tray support bracket down and snap it into the receiving element of the organizer.

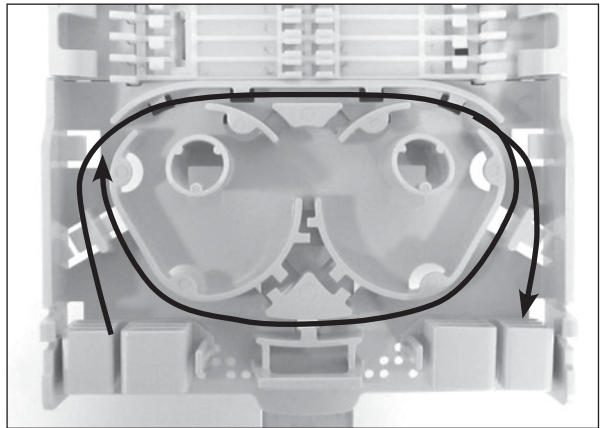


Routing Fiber in Dark Fiber Support Module

Step #38 Route dark fiber in the storage area as shown.



Step #39 For expressed fiber applications, route expressed fiber in the storage area as shown.

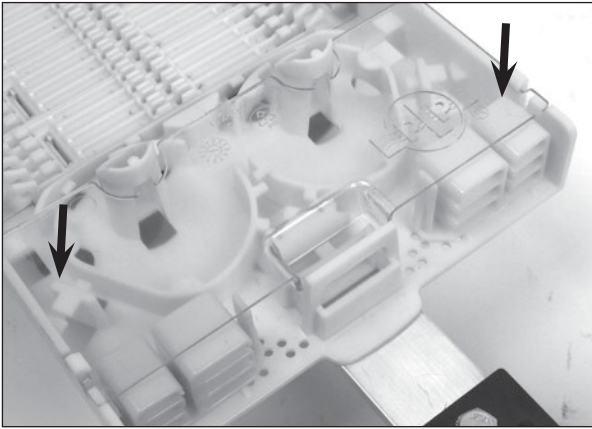


Dark Fiber Support Module Cover Installation

Step #40 Install the tabs of the cover in the slots of the posts of the support module.

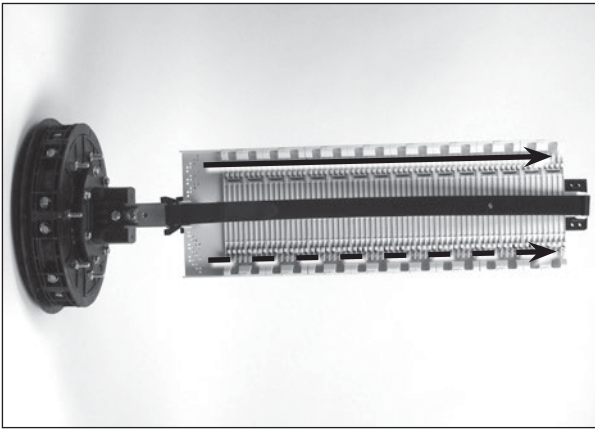


Step #41 Push down on cover to secure cover under the locking tabs of the support module.

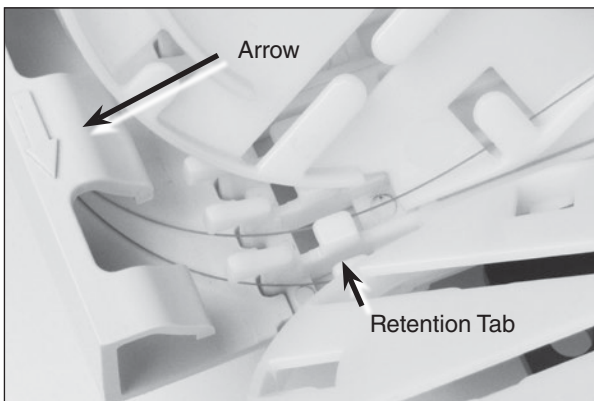


Routing Fiber to Splice Trays

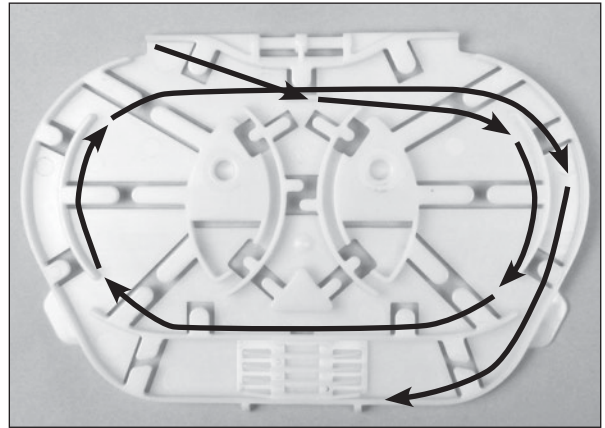
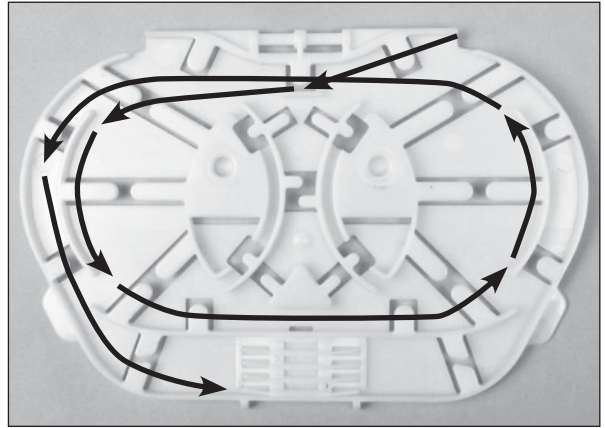
Step #42 Route fibers in side storage channels of the organizers up to each splice tray.



Step #43 Route fibers onto each splice tray in the same direction as the arrows located on the side storage channels. Make sure that the fibers are secured underneath the retention tab of each channel when routing the fiber(s) onto the tray.



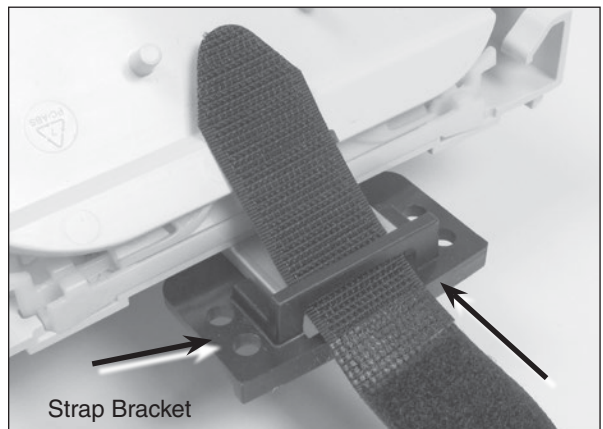
Step #44 Route fibers on splice tray.



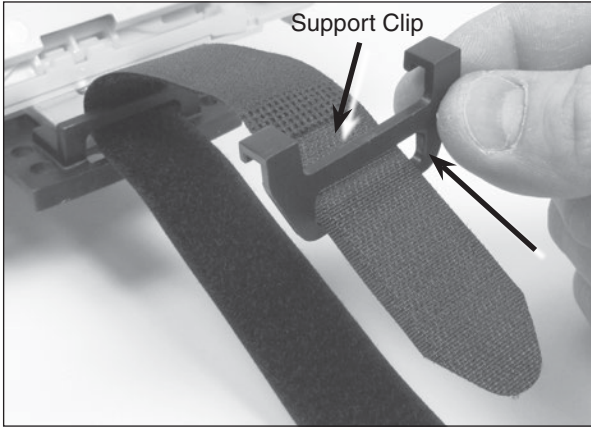
Step #45 Splice incoming fibers to outgoing fibers per your accepted company practice.

Supporting Splice Trays for Tray Access

Step #46 Place retention strap through strap bracket as shown.



Step #47 Fold back strap and insert splice tray support clip through strap as shown below.



Step #48 Capture legs of support clip in bottom of splice tray as shown.

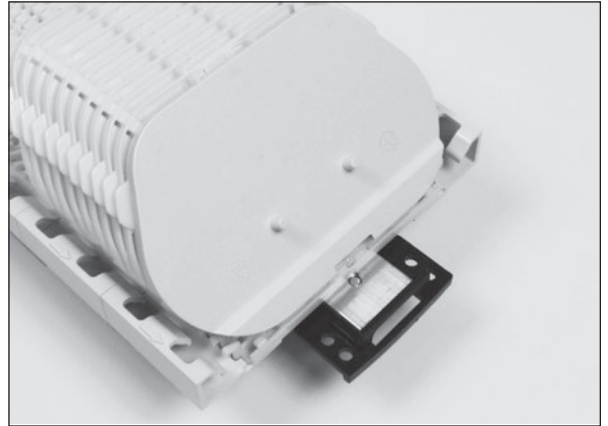


Step #49 Fold strap back over top splice trays to keep trays from falling.

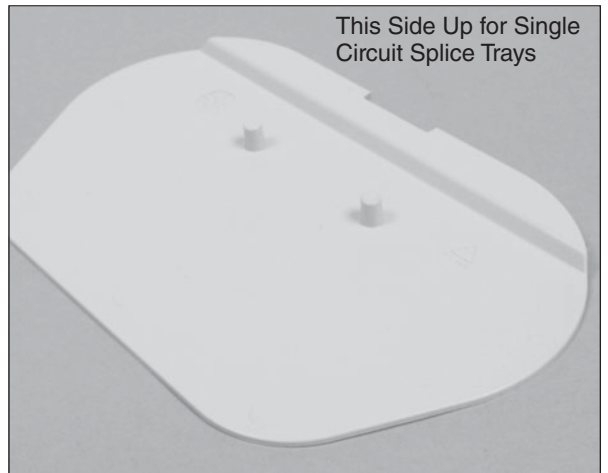


Securing Splice Tray

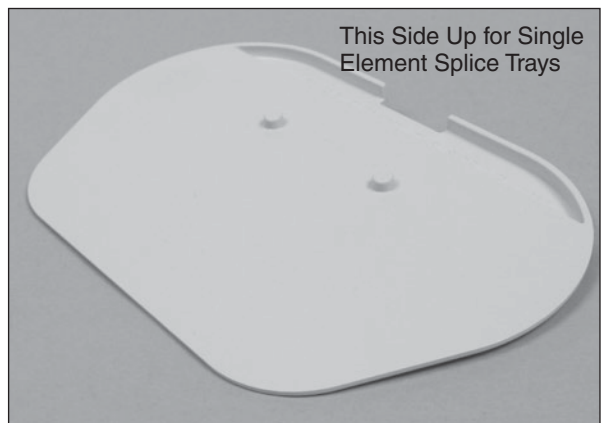
Step #50 Place tray cover on top tray. Make sure to verify that the correct side of the cover is installed on the tray.



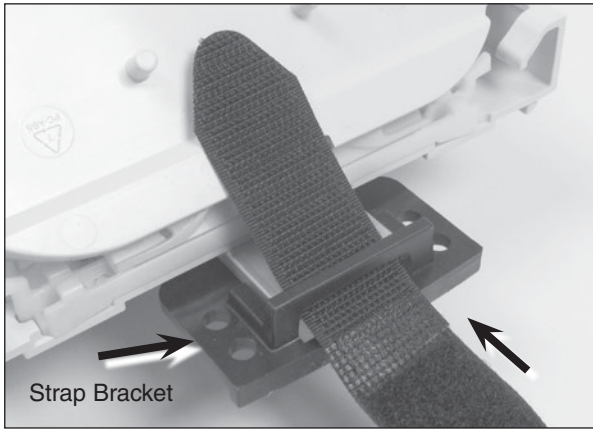
This Side Up for Single
Circuit Splice Trays



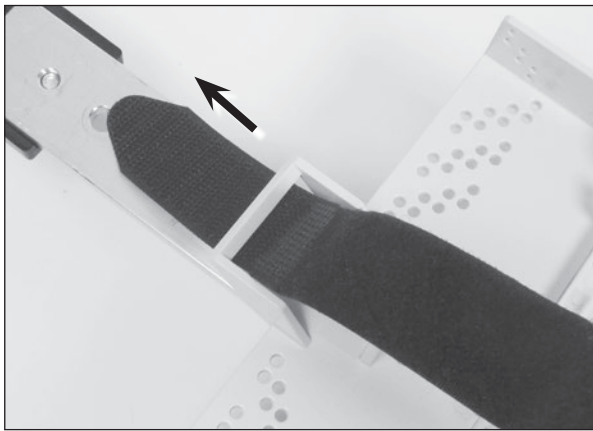
This Side Up for Single
Element Splice Trays



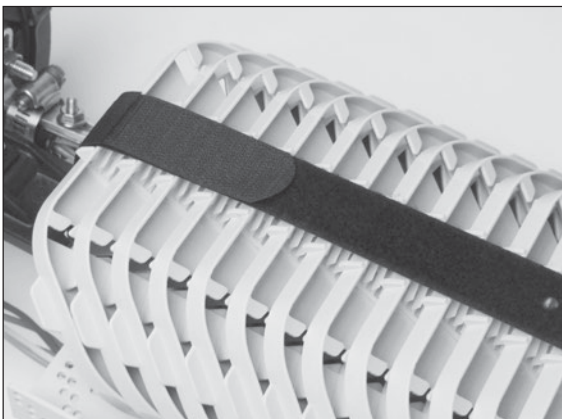
Step #51 Place retention strap through the strap bracket as shown.



Step #52 Place retention strap through the strap bracket of transition module.



Step #53 Pull strap tight and fold back to secure.



Dome Preparation & Installation

Step #54 Lubricate all surfaces around gasket with silicone lubricant to assure easy assembly and closure re-entry.

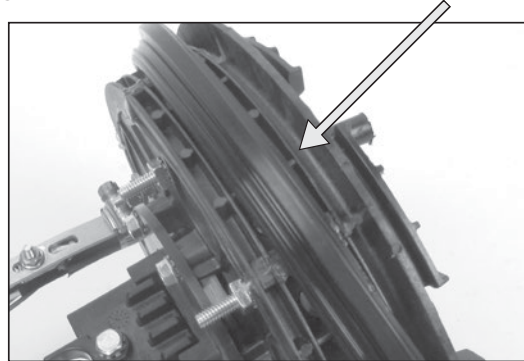
Lubricate all inner surfaces of the gasket.



Lubricate all outer surfaces of the gasket.

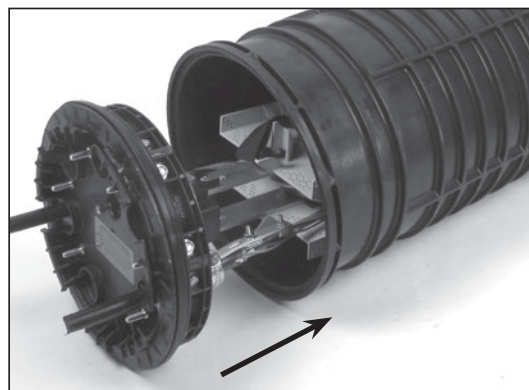
Step #55 Slide end plate gasket onto end plate and press into groove.

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



Step #56 Re-tighten all cable cap bolts (step #28) 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.

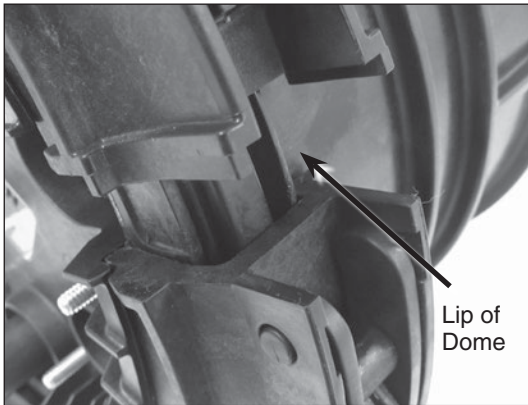
Step #57 Position dome over end plate.



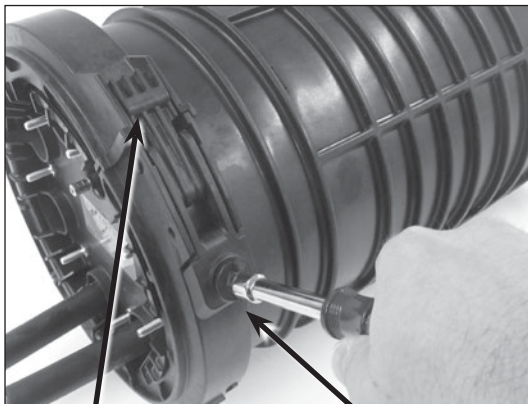
Step #58 Install dome collar.



Step #59 Make sure the lip of the dome is captured underneath the collar before securing the latch.



Step #60 Lock 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.

Latch Fastener

Flash Test Procedure

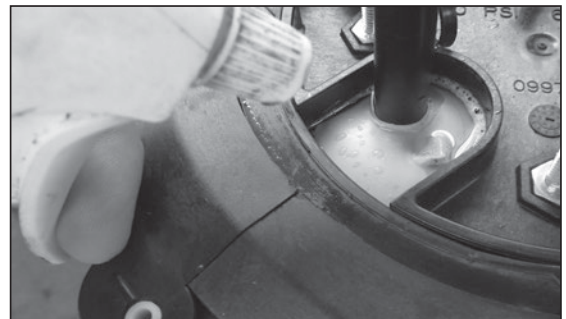
Step #61 Remove cap from air valve of end plate.



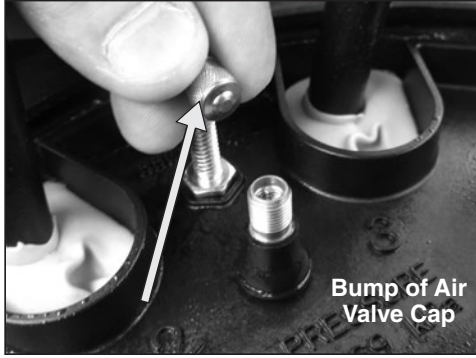
Step #62 Pressurize closure up to a max of 10 psi.



Step #63 Spray all sealing surfaces of the dome end plate with soapy water to determine if there are any leaks.



Step #64 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.

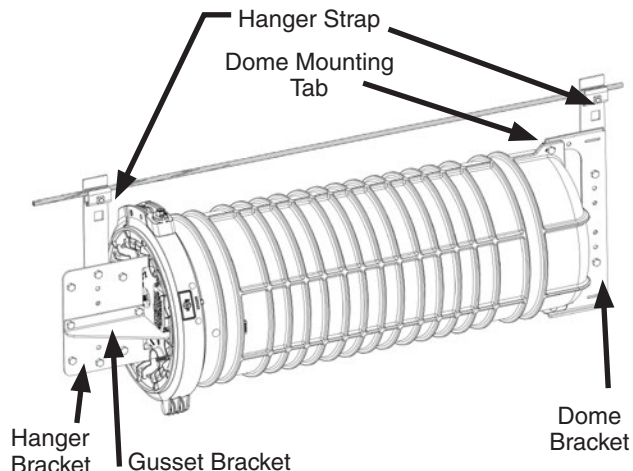


Leak occurring at the cable entry of the grommet

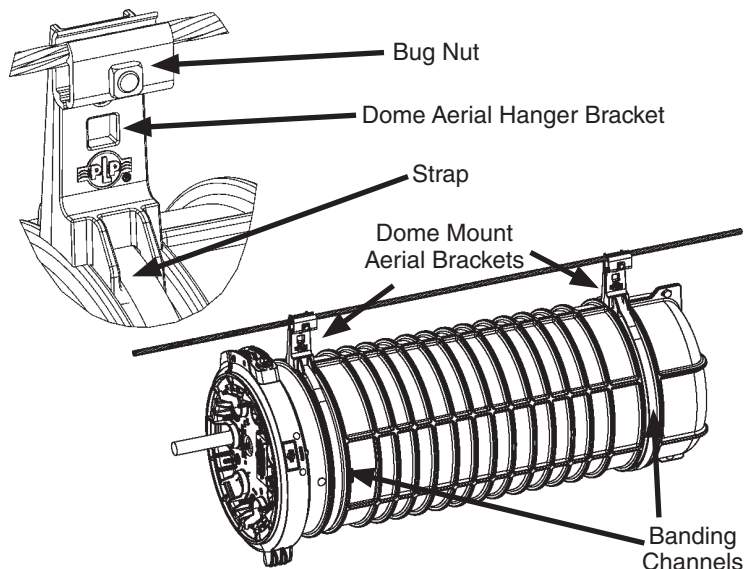
To resolve, remove collar and remove End Plate/ Organizer Assembly from the Dome. Remove end cap where leak occurred, remove grommet, remeasure cable with measure tape provided and select proper grommet. Reassemble the components and flash test the closure to confirm that the leak has stopped.

Mounting Hardware Options

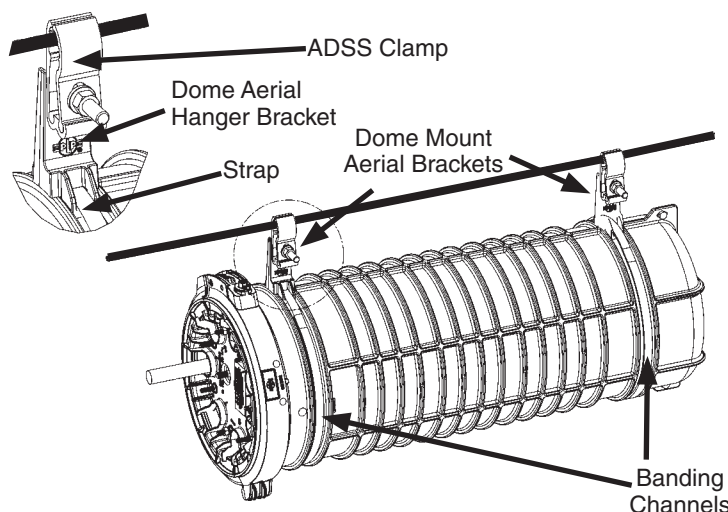
Step #65 9.5" (218 mm) COYOTE® Dome End Plate Mount Aerial Bracket – The COYOTE 9.5" Dome Aerial Mounting Bracket Kit (Cat. No. 8003941) can be used to suspend the COYOTE 9.5" x 19" (292 x 509 mm) or 9.5" x 28" (292 x 749 mm) Dome Closure from messenger wire. To install the aerial mounting bracket, first secure the gusset bracket to the hanger bracket before attaching both to the studs of dome end plate. Next, attach the dome bracket to the mounting tabs of the dome. Lastly, attach a hanger strap bracket to the dome bracket and one to the back side of the hanger bracket before mounting the dome closure to the messenger wire using the bug nuts of the hanger strap brackets.



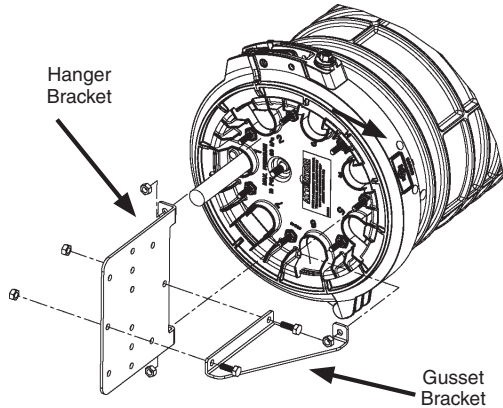
Step #66 9.5" (292 mm) COYOTE® Dome Mount Aerial Bracket. The COYOTE 9.5" Dome Mount Aerial Bracket Kit (Cat. No. 8003940) can be used to suspend the COYOTE 9.5" x 19" (292 x 509 mm) or 9.5" x 28" (292 x 749 mm) Dome Closure from messenger wire. To install the dome mount aerial brackets, position the brackets in the banding channels of the dome and insert banding (plastic or metal) through the slots of the brackets. Tighten the banding until the brackets are secure before mounting the closure to the messenger wire with the bug nuts of the brackets.



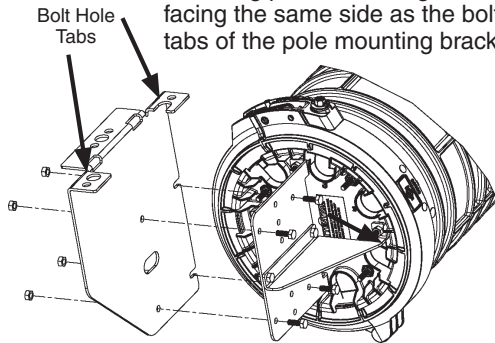
Step #67 9.5" (292 mm) COYOTE® Dome Mount Aerial Bracket – for ADSS Applications. The COYOTE 9.5" Dome Mount Aerial Bracket Kit for ADSS (Cat. No. 8003869) can be used to suspend the COYOTE 9.5" x 19" (292 x 509 mm) or 9.5" x 28" (292 x 749 mm) Dome Closure from ADSS cable. To install the Dome Mount Aerial Brackets, position the brackets in the banding channels of the dome and insert banding (plastic or metal) through the slots of the brackets. Tighten the banding until the brackets are secure before mounting the closure to the ADSS cable with the ADSS clamp.



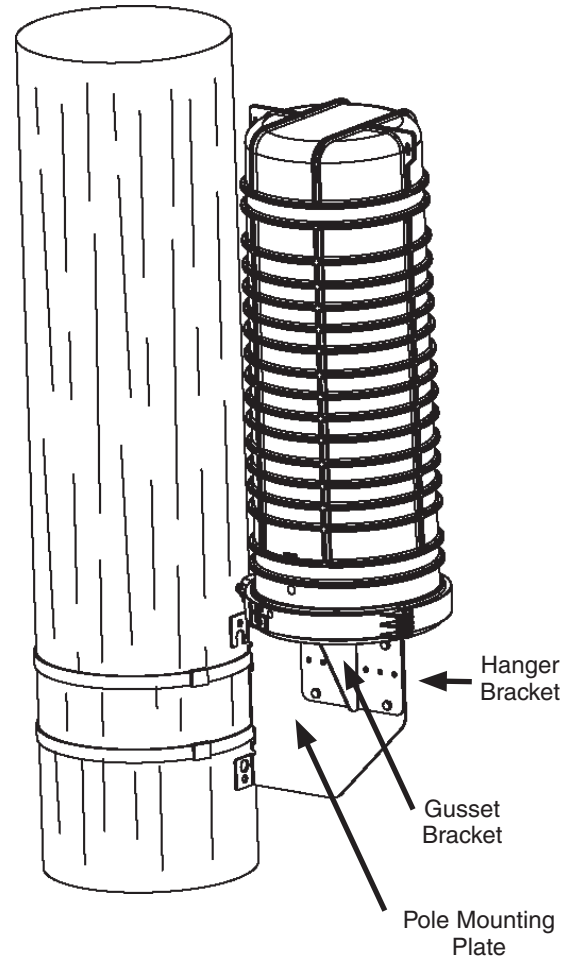
Step #68a **9.5" COYOTE® Dome Pole Mounting Bracket.** The COYOTE 9.5" Dome Pole Mounting Bracket Kit (Cat. No. 8003942) can be used to secure the COYOTE 9.5" x 19" (292 mm x 509 mm) or 9.5" x 28" (292 mm x 749 mm) Dome Closure to wood, concrete, or steel poles. To install the pole mounting bracket, first secure the gusset bracket to the hanger bracket before attaching both to the studs of dome end plate.



Step #68b 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 #68c Attach the dome pole mounting plate to the pole with either 5/8" (M16) through bolts, 1/4" (6.35 mm) lag screws, or metal banding.



SAFETY CONSIDERATIONS

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

Do not modify this product under any circumstances.

This product is intended for use by trained technicians only. **This product should not be used by anyone who is not familiar with, and not trained to use it.**

When working in the area of energized lines, extra care should be taken to prevent accidental electrical contact.

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

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



PREFORMED LINE PRODUCTS

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