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
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)
   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)
6. Long Strength Member Bracket Kit (1)
   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

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>COYSFMS-919-001</td>
<td>COYOTE 9.5&quot; x 19&quot; (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</td>
</tr>
<tr>
<td>COYSFMS-919-002</td>
<td>COYOTE 9.5&quot; x 19&quot; (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</td>
</tr>
<tr>
<td>COYSFMS-928-001</td>
<td>COYOTE 9.5&quot; x 28&quot; (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</td>
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<tr>
<td>COYSFMS-928-002</td>
<td>COYOTE 9.5&quot; x 28&quot; (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</td>
</tr>
</tbody>
</table>

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
### COYOTE® Dome Closure Grommet Chart
For use in COYOTE® GLC, Aerial, LCC, Dome, In-Line RUNT, Taut & Terminal Closures

<table>
<thead>
<tr>
<th>PLP Catalog Number</th>
<th>Cable Range Inches (mm)</th>
<th>Description</th>
<th>Splitting Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>8003691</td>
<td>.42 - .60 (11 - 15 mm)</td>
<td>1-entry grommet</td>
<td>![Grommet Icon]</td>
</tr>
<tr>
<td>8003692</td>
<td>.60 - .85 (15 - 22 mm)</td>
<td>1-entry grommet</td>
<td>![Grommet Icon]</td>
</tr>
<tr>
<td>8003693</td>
<td>.85 - 1.0 (22 - 25 mm)</td>
<td>1-entry grommet</td>
<td>![Grommet Icon]</td>
</tr>
<tr>
<td>8003694</td>
<td>1.0 - 1.25 (25 - 32 mm)</td>
<td>1-entry grommet</td>
<td>![Grommet Icon]</td>
</tr>
<tr>
<td>8003663</td>
<td>.42 - .60 (11 - 15 mm)</td>
<td>2-entry grommet</td>
<td>![Grommet Icon]</td>
</tr>
<tr>
<td>8003664</td>
<td>.30 - .43 (8 - 11 mm)</td>
<td>4-entry grommet</td>
<td>![Grommet Icon]</td>
</tr>
<tr>
<td>8003989</td>
<td>Flat Drop Only</td>
<td>4-entry grommet</td>
<td>![Grommet Icon]</td>
</tr>
<tr>
<td>8003665</td>
<td>.125 - .25 (3 - 6 mm)</td>
<td>6-entry grommet</td>
<td>![Grommet Icon]</td>
</tr>
<tr>
<td>8003676</td>
<td>.42 - .60 (11 - 15 mm)</td>
<td>7-entry grommet</td>
<td>![Grommet Icon]</td>
</tr>
<tr>
<td></td>
<td>.125 - .25 (3 - 6 mm)</td>
<td>8-entry grommet</td>
<td>![Grommet Icon]</td>
</tr>
<tr>
<td>8003677</td>
<td>.125 - .25 (3 - 6 mm)</td>
<td>8-entry grommet</td>
<td>![Grommet Icon]</td>
</tr>
</tbody>
</table>

**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.

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.

Cable Diameter Range

Install plug in unused port.
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

Not Correct Installation  Correct Installation

Figure 8 Style Cable

NOT CORRECT

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

Not Correct Slitting Angle  Correct Slitting Angle

Minimum Sheath Opening for Cut Cable Applications

<table>
<thead>
<tr>
<th>Size</th>
<th>Minimum Opening</th>
</tr>
</thead>
<tbody>
<tr>
<td>9.5&quot; x 19&quot; (292 x 509 mm) Dome</td>
<td>Min. of 82&quot; (2083 mm)</td>
</tr>
<tr>
<td>9.5&quot; x 28&quot; (292 x 749 mm) Dome</td>
<td>Min. of 112&quot; (2845 mm)</td>
</tr>
</tbody>
</table>

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

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

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.

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 cannot be expressed and only up to 8 buffer tubes can be expressed in the closure.

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

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

<table>
<thead>
<tr>
<th>Size</th>
<th>Measurement 1</th>
<th>Measurement 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>9.5” x 19” (292 x 509 mm) Dome</td>
<td>Min. of 164” (4166 mm)</td>
<td>Min. of 224” (5690 mm)</td>
</tr>
</tbody>
</table>

**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

Cable in Top Entry Ports

<table>
<thead>
<tr>
<th>Size</th>
<th>Measurement 1</th>
<th>Measurement 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>9.5” (140 mm)</td>
<td>5.5”</td>
<td>3” (76 mm)</td>
</tr>
</tbody>
</table>

Step #13 If the cable contains Kevlar®, braid roughly 3” (7 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).

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

<table>
<thead>
<tr>
<th>Size</th>
<th>Measurement 1</th>
<th>Measurement 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>9.5” x 19” (292 x 509 mm) Dome</td>
<td>36.5” (927 mm)</td>
<td>52.5” (1334 mm)</td>
</tr>
<tr>
<td>9.5” x 28” (292 x 749 mm) Dome</td>
<td>57” (1448 mm)</td>
<td>64” (1626 mm)</td>
</tr>
</tbody>
</table>

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

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.

**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 #22**  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 that buffer tubes are not pinched or distorted as shield connector is secured to the bracket.

Kevlar® is a registered trademark of DuPont.
Step #23  Secure shielded cable to strength member bracket with hose clamp.

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

Step #24  Lubricate the outer surface of the grommets.

Lubricate sealing surface of grommet with silicone lubricant provided.

Step #25  Position grommets in end plate slots.

Do not align grommet slit with end plate seam.

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

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 #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.

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

Buffer Tube Applications

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

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

OR
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

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.

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.

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.

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

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

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.

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.