COYOTE® ONE Closure

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 3-Port End Plate Assembly (Buffer Tube Organizer Shown) (1)
3. Transport Tubing Kit (1) (In Universal Organizer Kit Only)
4. Dome Collar (1)
5. Dome Gasket (1)
6. Buffer Tube Side Storage Clip (2) (In Universal Organizer Kit Only)
7. 6-Hole Bobbin (1)*
8. Disposable Glove (1)
9. Cable Tie Wraps (1 Bag)
10. Silicone Lubricant (4 five gram packets)
11. Cable Grommet (3)
12. Hose Clamp (3)
13. Short Strength Member Bracket (3)

*Accessory can be purchased separately.

TOOLS REQUIRED

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

COYOTE® ONE Closure Kits

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>COY1-001</td>
<td>COYOTE ONE Closure for Buffer Tube Applications. Includes: (3) Grommets - (2) P/N: 8003663 &amp; (1) P/N: 8003665, (1) Organizer Assembly with 3-Port End Plate, (1) Collar Assembly, (1) Gasket, &amp; (1) Small Parts Bag</td>
</tr>
<tr>
<td>COY1-002</td>
<td>COYOTE ONE Closure for Unitube/Ribbon Applications. Includes: (3) Grommets - (2) P/N: 8003663 &amp; (1) P/N: 8003665, (1) Organizer Assembly with 3-Port End Plate, (1) Collar Assembly, (1) Gasket, (1) Small Parts Bag, &amp; (1) Transition Tube Kit</td>
</tr>
</tbody>
</table>

Mounting Brackets and Accessories

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>8004005</td>
<td>Aerial Low Clearance Mounting Bracket (Dome Mount) - Strand Mounting</td>
</tr>
<tr>
<td>8004031</td>
<td>Aerial Low Clearance Mounting Bracket (Dome Mount) - ADSS Mounting</td>
</tr>
<tr>
<td>8004027</td>
<td>Aerial Offset Mounting Bracket (Dome Mount) - Strand Mounting</td>
</tr>
<tr>
<td>8004032</td>
<td>Aerial Offset Mounting Bracket (Dome Mount) - ADSS Mounting</td>
</tr>
<tr>
<td>8004004</td>
<td>Pole/Wall Mounting Bracket</td>
</tr>
<tr>
<td>8003835</td>
<td>Universal Mounting Bracket Kit for Hand Hole Applications</td>
</tr>
<tr>
<td>8004033</td>
<td>Provides flat surface to apply closure identification labels</td>
</tr>
</tbody>
</table>
### COYOTE® ONE 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>Slitting Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>8003691</td>
<td>.42 - .60 (11 - 15 mm)</td>
<td>1-entry grommet</td>
<td></td>
</tr>
<tr>
<td>8003692</td>
<td>.60 - .85 (15 - 22 mm)</td>
<td>1-entry grommet</td>
<td></td>
</tr>
<tr>
<td>8003663</td>
<td>.42 - .60 (11 - 15 mm)</td>
<td>2-entry grommet</td>
<td></td>
</tr>
<tr>
<td>8003664</td>
<td>.30 - .43 (8 - 11 mm)</td>
<td>4-entry grommet</td>
<td></td>
</tr>
<tr>
<td>8003989</td>
<td>Flat Drop Only</td>
<td>4-entry grommet</td>
<td></td>
</tr>
<tr>
<td>8003665</td>
<td>.125 - .25 (3 - 6 mm)</td>
<td>6-entry grommet</td>
<td></td>
</tr>
<tr>
<td>8003676</td>
<td>.42 - .60 (11 - 15 mm)</td>
<td>7-entry grommet</td>
<td></td>
</tr>
<tr>
<td>8003677</td>
<td>.125 - .25 (3 - 6 mm)</td>
<td>8-entry grommet</td>
<td></td>
</tr>
</tbody>
</table>

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

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### Splice Tray/Closure Capacities for COYOTE® ONE Closure

<table>
<thead>
<tr>
<th>Splice Tray</th>
<th>Catalog Number</th>
<th>Splice Type</th>
<th>Trays per Closure</th>
<th>Closure Splice Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low Profile LITE-GRIP® (24 ct.)</td>
<td>80809958</td>
<td>Single Fusion</td>
<td>4 (Universal Version)</td>
<td>96</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>5 (Buffer Tuber Version)</td>
<td>120</td>
</tr>
<tr>
<td>Deep Profile LITE-GRIP® (40 ct.)</td>
<td>80808945</td>
<td>Single Fusion</td>
<td>2</td>
<td>80</td>
</tr>
<tr>
<td>Deep Profile LITE-GRIP® (144 ct.)</td>
<td>LGSTR144</td>
<td>Mass Fusion/Ribbon</td>
<td>2</td>
<td>144 Suggested 288 Max</td>
</tr>
</tbody>
</table>
Cable Preparation

Step #1 Measure cable to determine diameter and hole location to use in grommet.

Step #2a If using cut cable, insert cable through grommet. If your application requires express/balloon/ring cut cables, see Step 3 for grommet slitting procedure.

Step #2b 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

Cable with Tracer Wire

Figure 8 Style Cable

Step #3 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.
Step #4  
Prepare loose tube/buffer tube or unitube/ribbon cable(s) for cut applications.

Minimum Sheath Opening for Cut Cable Applications

| Min. of 64˝ (1.6 m) |

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

Cable Sheath Opening for Applications Where Fiber is Dedicated to the Splice Point

Step #5a  
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 24 ribbons (288 fibers).

Cable Sheath Opening for Applications Where Fiber is NOT Dedicated to the Splice Point

Step #5b  
Prepare loose tube/buffer tube or unitube/ribbon cable(s) for mid sheath applications (Express/Balloon/Ring Cut).

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

For Applications Where Fiber is NOT Dedicated to the Splice Point

<table>
<thead>
<tr>
<th>For Applications Where Fiber is NOT Dedicated to the Splice Point</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sheath Opening</td>
</tr>
<tr>
<td>Fiber/Buffer Tube Cut Location</td>
</tr>
</tbody>
</table>

PLP Tip: Leave about 8˝ (203 mm) of strength member to trim later.
Step #5c Prepare loose tube/buffer tube cable(s) for expressed fiber (buffer tube window cut).

For Applications Where Fiber is Expressed through the Buffer Tube

<table>
<thead>
<tr>
<th>Sheath Opening</th>
<th>64” (1.6 m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Buffer Tube Opening Location</td>
<td>C (see image above)</td>
</tr>
</tbody>
</table>

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

Step #6 Prepare Central/Buffer Tube(s) for Unitube/Ribbon Cable Applications.

Step #7 If the cable contains Kevlar®, braid roughly 3” (7.2 cm) of the Kevlar.

Step #8a Align sheath opening with end of slot of the strength member bracket as shown.

Step #8b Trim strength member(s) flush with end of the strength member bracket(s).

Step #9 Install cap on strength member bracket.

Kevlar® is a registered trademark of DuPont.
Step #10 Position strength member under cap of strength member bracket.

Step #11 If the cable contains Kevlar®, wrap the braided Kevlar around the stud of the cap as shown.

Step #12 Tighten nut of cap to secure strength member and braid under the cap.

Step #13 Secure cable to strength member bracket with hose clamp.

Step #14a 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.

Step #14b Secure shield connector to strength member bracket with nut and secure cable strength member under cap of the strength member bracket.

Step #14c 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.

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

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

Kevlar® is a registered trademark of DuPont.
Step #15a  Lubricate the outer surface of the grommet.

Lubricate sealing surface of grommet with silicone lubricant provided.

Step #15b  Position grommet in end plate slot.

Do not align grommet slit with end plate seam.

Step #16  Position slot of strength member bracket leg over stud and pull back cable.

Step #17a  Lightly secure strength member bracket on stud with lock washer and nut, allowing bracket to move.

Nut and lock washer

Step #17b  Install the cable end cap 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) Repeat process for remaining end cap. When using a can wrench or nut driver the installed torque is 35 to 40 in. lbs.

IMPORTANT: TIGHTEN AND SECURE THE STRENGTH MEMBER BRACKET

Step #17c  Small guide tabs are on each end plate cap to insure proper alignment during end plate assembly. See assembly images below.

Before

Guide Tabs

After

Guide Tabs

NOTE: Kevlar® is a registered trademark of DuPont.
**Attaching Drop Cables to 6-Hole Grommet Bobbin**

**Step #18**
Trim strength members of drop cables as shown.

**Step #19a**
Place end(s) of strength member(s) in the retention pocket of the bobbin.

**Step #19b**
Secure cable(s) to bobbin with hose clamp.

**Center Cable Cap Installation**

**Step #20a**
For cables entering the closure in the middle cable port, insert the leg of the bobbin in the slot of the bobbin bracket.

**Step #20b**
For cables entering the closure in the outer cable ports, place the leg of the bobbin in the slot of the strength member bracket and lightly secure the strength member bracket on the stud. The bracket is not tightened down yet.
Step #21a  Install center 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. IMPORTANT: TIGHTEN AND SECURE THE STRENGTH MEMBER BRACKET

Step #21b  Small guide tabs are on each end plate cap to insure proper alignment during end plate assembly. See assembly images below.

Before

Guide Tabs

After

Guide Tabs

Step #22  Complete end plate assembly.

Routing in Buffer Tube Organizer

Step #23  Route and store buffer tubes in storage brackets.

Step #24  Route buffer tube(s) to splice tray(s) and secure.

Routing in Universal Organizer for Buffer Tube Applications

Step #25  Secure buffer tube storage brackets with nut and lock washer.
Routing in Universal Organizer for Unitube/Ribbon Applications

Step #26  Route and store buffer tubes in storage brackets.

Step #27  Install cover on transition tray.

Step #28  Route buffer tube(s) to splice tray(s) and secure.

Step #29  Remove buffer tube storage brackets from transition tray.

Step #30  Route and secure central tube of unitube cables to transition tray with cable tie wraps.

Step #31  Route and store fibers or ribbons within transition tray.
Step #32  Route expressed fibers or ribbons under organizer clips.

Step #33  Insert fibers or ribbons to be routed to splice tray(s) into transport tube(s) and secure tubes to transition tray.

Step #34  Install cover on transition tray.

Step #35  Route transport tube(s) to splice tray(s) and secure.

Step #36  If buffer tubes need to be routed to splice trays, install buffer tube side storage clips to route buffer tubes.

Step #37  Route incoming fibers in splice tray.

Step #38  Route outgoing fibers in splice tray.
Step #39  Splice incoming fibers to outgoing fibers per your accepted company practices.

Step #40a  Secure splice tray(s) in buffer tube organizer with plastic hold down strap.

Step #40b  Secure splice tray(s) in universal organizer with VELCRO® strap.

Cross-Connect Applications

Step #41  Measure and mark pigtail. Remove the pigtail jacket and Kevlar® beyond this mark.

Measurement from connector edge (See Chart Below)

<table>
<thead>
<tr>
<th>For 6 or 12 Adapters</th>
<th>For 8 Adapters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Position 1&amp;7 = 16&quot; (41cm)</td>
<td>Position 1 = 16&quot; (41cm)</td>
</tr>
<tr>
<td>Position 2&amp;8 = 15&quot; (38 cm)</td>
<td>Position 2 = 15.5&quot; (39 cm)</td>
</tr>
<tr>
<td>Position 3&amp;9 = 14&quot; (36 cm)</td>
<td>Position 3 = 15&quot; (38 cm)</td>
</tr>
<tr>
<td>Position 4&amp;10 = 13&quot; (33 cm)</td>
<td>Position 4 = 14.5&quot; (37 cm)</td>
</tr>
<tr>
<td>Position 5&amp;11 = 12&quot; (31 cm)</td>
<td>Position 5 = 14&quot; (36 cm)</td>
</tr>
<tr>
<td>Position 6&amp;12 = 11&quot; (28 cm)</td>
<td>Position 6 = 13.5&quot; (34 cm)</td>
</tr>
<tr>
<td>Position 7 = 13&quot; (33 cm)</td>
<td>Position 8 = 12.5&quot; (32 cm)</td>
</tr>
</tbody>
</table>

Step #42  Install pigtails into LITE-GRIP® 2-Hole Sleeve or bundle up to 6 pigtails together with felt.

Pigtails wrapped with felt

Step #43  Install LITE-GRIP® Sleeve(s) with pigtails into splice tray or tie wrap pigtails bundled together to splice tray.

Pigtails in 2-Hole LITE-GRIP® Sleeves

VELCRO® is owned by Velcro Industries B. V.

Kevlar® is a registered trademark of DuPont.
Pigtail Routing

**Step #44** Route pigtails to bulkhead as shown.

**Step #45** Install pigtail connectors into adapters.

Dome Preparation

**Step #46** Lubricate all surfaces around gasket with silicone lubricant to assure easy assembly and closure re-entry.

**Step #47** Slide end plate gasket onto end plate and press into groove. Make sure gasket is fully seated in groove of end plate.

**Step #48** Re-tighten all cable cap bolts (Step #21) 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 #49** Position dome over end plate.

**Step #50a** Install dome collar.
**Flash Test Procedure**

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

**Step #53** Pressurize closure up to a max of 5 psi.

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

**Step #50b** Make sure lip of dome is captured underneath the collar before securing the latch.

**Step #51** Fasten collar by screwing retention bolt by hand or with 7/16” end of a can wrench.

**PLP Tip:** Secure collar by placing a tie wrap or some other locking device in the hole of the collar flange.
Step #55 Release the pressure in the closure using the bump on the top of the air valve cap.

**Bump of 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.**

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 corner of the cable port**

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

Step #56 COYOTE ONE Low Clearance Aerial Bracket for Strand Mounting (Cat. No. 8004005). Assemble each bracket as shown in photo below and attach the brackets to the dome cover with the self tapping screws.

**Bug Nut Clamps A & B**

**Self Tapping Screws**

**Nut**

**Low Clearance Mounting Bracket**

**Carriage Bolt**
Step #57  COYOTE ONE Adjustable Offset Aerial Bracket for Strand Mounting (Cat. No. 8004027). Assemble each bracket as shown in photo and attach the brackets to the dome cover with the self tapping screws.

Step #58  COYOTE ONE Low Clearance Aerial Bracket for ADSS Mounting (Cat. No. 8004031). Assemble each bracket as shown in photo below and attach the brackets to the dome cover with the self tapping screws.
Step #59  COYOTE ONE Adjustable Offset Aerial Bracket for ADSS Mounting (Cat. No. 8004032). Assemble each bracket as shown in photo and attach the brackets to the dome cover with the self tapping screws.

Self Tapping Screws

Keps Nut

ADSS Clamp

Carriage Bolt

3/4” Bolt

Nut

Lock Washer

Self Tapping Screws
COYOTE ONE Closure Pole/Wall Mounting Bracket (Cat. No. 8004004). Install the end plate mounting plate by placing the mounting plate on the end plate studs and securing with the keps nuts provided as seen below. Install the dome mounting plate to the dome with self tapping screws as seen below. Attach the mounting plates to a pole or wall with either 5/16” lag screws or banding (not provided).

End Plate Mounting Plate

Dome Mounting Plate
Step #61  COYOTE Universal Mounting Bracket for Hand Hole Applications (Cat. No. 8003835).

1. Secure the Universal Mounting Bracket to the inner wall of the hand hole using the 2 screws provided.

2. Secure the hanger brackets to the ears of the COYOTE ONE with the hex head bolts and keps nuts provided.

3. 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.
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.