COYOTE® Terminal Dome Closure 6.5" x 17"

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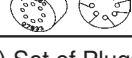
NOMENCLATURE

1. Dome Cover (1)
2. Organizer Assembly with Hardened Adapter End Plate (1)
3. LITE-GRIP® Short Splice Tray (1)
4. Dome Collar (1)
5. Dome Gasket (1)
6. Short Strength Member Bracket (2)
7. Nut (4)
8. Lock Washer (4)
9. Transition Tube Kit (3) – Only in Kits for Unitube/Ribbon Applications
10. Pigtail Kit (1)
11. Grommet (2)
12. Hose Clamp (4)
13. Silicone Lubricant (1 five gram packet)

COYOTE Terminal 6.5" x 17" Dome Closure Kits	
Catalog Number	**Description**
COYTD617B0-000	**COYOTE Terminal Dome Closure for Buffer Tube Applications with 0 Hardened Adapters (all Plugs).** Includes: (2) Grommets, (1) Organizer Assembly with End Plate with all plugs, (1) Collar Assembly, (1) Gasket, (1) Small Parts Bag, & (1) LITE-GRIP® Splice Tray
COYTD617R0-000	**COYOTE Terminal Dome Closure for Unitube/Ribbon Applications with 0 Hardened Adapters (all Plugs).** Includes: (2) Grommets, (1) Organizer Assembly with End Plate with all plugs, (1) Collar Assembly, (1) Gasket, (1) Small Parts Bag, (3) Transition Tube Kits, & (1) LITE-GRIP® Splice Tray
COYTD617B1-000	**COYOTE Terminal Dome Closure for Buffer Tube Applications with 1 Hardened Adapter.** Includes: (2) Grommets, (1) Organizer Assembly with End Plate with 1 Hardened Adapter, (1) Collar Assembly, (1) Gasket, (1) Small Parts Bag, (1) Pigtail Kit, & (1) LITE-GRIP® Splice Tray
COYTD617R1-000	**COYOTE Terminal Dome Closure for Unitube/Ribbon Applications with 1 Hardened Adapter.** Includes: (2) Grommets, (1) Organizer Assembly with End Plate with 1 Hardened Adapter, (1) Collar Assembly, (1) Gasket, (1) Small Parts Bag, (3) Transition Tube Kits, (1) Pigtail Kit, & (1) LITE-GRIP® Splice Tray
COYTD617B2-000	**COYOTE Terminal Dome Closure for Buffer Tube Applications with 2 Hardened Adapters.** Includes: (2) Grommets, (1) Organizer Assembly with End Plate with 2 Hardened Adapters, (1) Collar Assembly, (1) Gasket, (1) Small Parts Bag, (1) Pigtail Kit, & (1) LITE-GRIP® Splice Tray
COYTD617R2-000	**COYOTE Terminal Dome Closure for Unitube/Ribbon Applications with 2 Hardened Adapters.** Includes: (2) Grommets, (1) Organizer Assembly with End Plate with 2 Hardened Adapters, (1) Collar Assembly, (1) Gasket, (1) Small Parts Bag, (3) Transition Tube Kits, (1) Pigtail Kit, & (1) LITE-GRIP® Splice Tray
COYTD617B3-000	**COYOTE Terminal Dome Closure for Buffer Tube Applications with 3 Hardened Adapters.** Includes: (2) Grommets, (1) Organizer Assembly with End Plate with 3 Hardened Adapters, (1) Collar Assembly, (1) Gasket, (1) Small Parts Bag, (1) Pigtail Kit, & (1) LITE-GRIP® Splice Tray
COYTD617R3-000	**COYOTE Terminal Dome Closure for Unitube/Ribbon Applications with 3 Hardened Adapters.** Includes: (2) Grommets, (1) Organizer Assembly with End Plate with 3 Hardened Adapters, (1) Collar Assembly, (1) Gasket, (1) Small Parts Bag, (3) Transition Tube Kits, (1) Pigtail Kit, & (1) LITE-GRIP® Splice Tray
COYTD617B4-000	**COYOTE Terminal Dome Closure for Buffer Tube Applications with 4 Hardened Adapters.** Includes: (2) Grommets, (1) Organizer Assembly with End Plate with 4 Hardened Adapters, (1) Collar Assembly, (1) Gasket, (1) Small Parts Bag, (1) Pigtail Kit, & (1) LITE-GRIP® Splice Tray
COYTD617R4-000	**COYOTE Terminal Dome Closure for Unitube/Ribbon Applications with 4 Hardened Adapters.** Includes: (2) Grommets, (1) Organizer Assembly with End Plate with 4 Hardened Adapters, (1) Collar Assembly, (1) Gasket, (1) Small Parts Bag, (3) Transition Tube Kits, (1) Pigtail Kit, & (1) LITE-GRIP® Splice Tray

Accessory Kits	
80808456	**COYOTE® Dome End Plate Fixture**
8003715	**Hardened Adapter Kit with Installation Tool**
8003724	**Plug Kit with Installation Tool**
80807972	**Adapter Installation Tool**
Mounting Brackets	
8003831	**Aerial Hanger Bracket (Dome Mount) for Strand Mount Applications**
8003833	**Aerial Hanger Bracket Kit (For ADSS)**
8003851	**Aerial Hanger Bracket with Offset Brackets (Dome Mount) for Strand Mount Applications**
8003702	**Pole/Wall Mounting Bracket**
8003835	**Universal Mounting Bracket Kit for Hand Holes**

Splice Tray/Closure Capacities for 6.5" x 17" COYOTE® Dome Closures				
Splice Tray	**Catalog Number**	**Splice Type**	**Trays per Closure**	**Closure Splice Capacity**
Low Profile LITE-GRIP® (24 ct.)	**80809958**	**Single Fusion**	**6**	**144**
Deep Profile LITE-GRIP® (40 ct.)	**80808945**	**Single Fusion**	**3**	**120**
Deep Profile LITE-GRIP® (144 ct.)	**LGSTR144**	**Mass Fusion/ Ribbon**	**3**	**432**

| COYOTE® Grommet Chart For use in COYOTE® GLC, Aerial, LCC, Dome, In-Line RUNT, Taut & Terminal Closures			
PLP Catalog Number	**Cable Range Inches (mm)**	**Description**	**Splitting Location**
8003691	.40 - .60 (10.2 - 15 mm)	1-entry grommet	
8003692	.60 - .85 (15 - 22 mm)	1-entry grommet	
8003693	.85 - 1.0 (22 - 25 mm)	1-entry grommet	
8003694	1.0 - 1.25 (25 - 32 mm)	1-entry grommet	
8003663	.42 - .60 (11 - 15 mm)	2-entry grommet	
8003664	.30 - .43 (8 - 11mm)	4-entry grommet	
8004065	.250 - .312 (6.4 - 7.9 mm)	4-entry grommet	
8003990	.50 - .60 (12.7 - 15.2) .125 - .25 (3.2 - 6.4) and flat drop	4-entry grommet	
8003665	.125 - .25 (3 - 6 mm)	6-entry grommet	
8003676	.42 - .60 (11 - 15 mm) .125 - .25 (3 - 6 mm)	7-entry grommet	
8003677	.125 - .25 (3 - 6 mm)	8-entry grommet	

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

End Plate 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.**

Cable Diameter Range

Install plug in unused port.
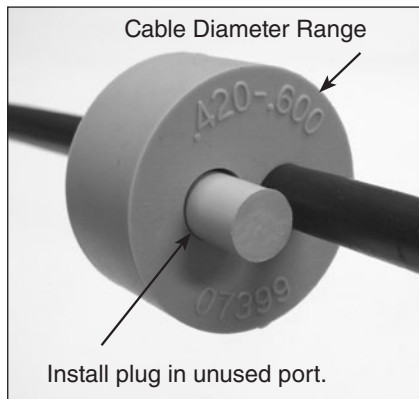
Step #2b **Installing Figure 8 Style Cables and Cables with Tracer Wires -** Remove tracer wire or ground wire from the portion of the cable that will be positioned in the grommet and insert cable into grommet.

Cable with Tracer Wire

NOT CORRECT

Not Correct Installation

Correct Installation

Figure 8 Style Cable
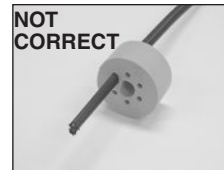
NOT CORRECT

Not Correct Installation
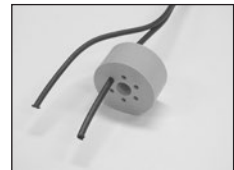
Correct Installation

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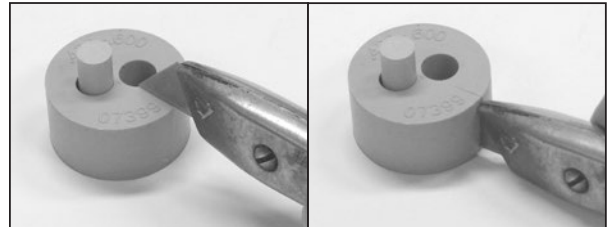
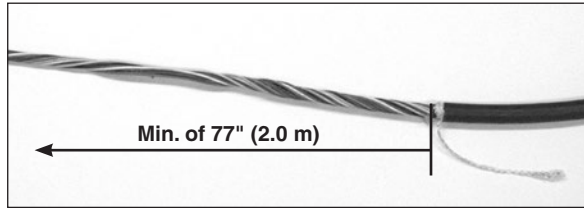**PLP Tip:** Use a pen to sketch slitting lines on top surface of grommet prior to cutting.

NOT CORRECT
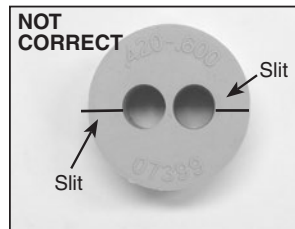
Slit

Slit

Slit

Slit

Not Correct Slitting Angle
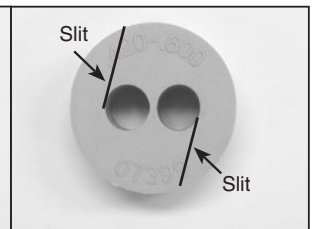
Correct Slitting Angle

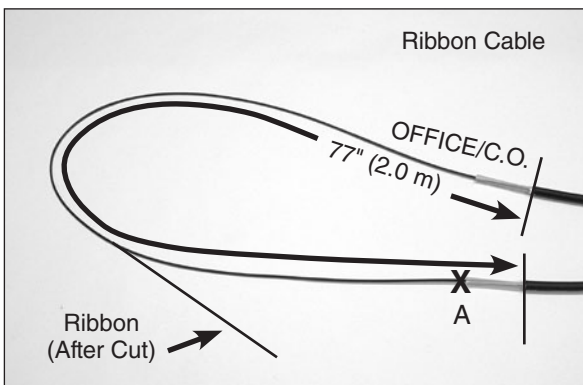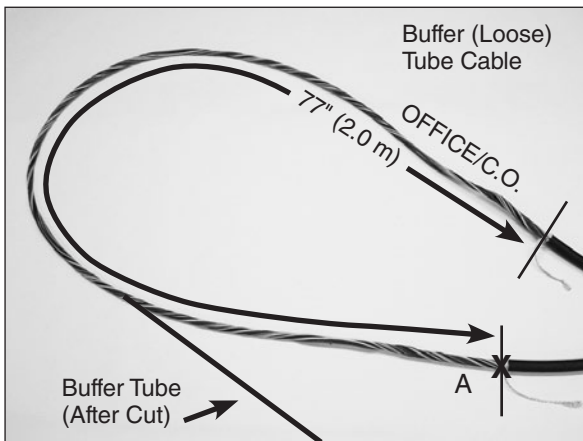**Step #4** Prepare loose tube/buffer tube or unitube/ ribbon cable(s) for cut applications.

← Min. of 77" (2.0 m)

Minimum Sheath Opening for Cut Cable Applications	
77"	2.0 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).

Buffer (Loose) Tube Cable

77" (2.0 m)

OFFICE/C.O.

Buffer Tube (After Cut)

A

Ribbon Cable

OFFICE/C.O.

77" (2.0 m)

Ribbon (After Cut)

X
A

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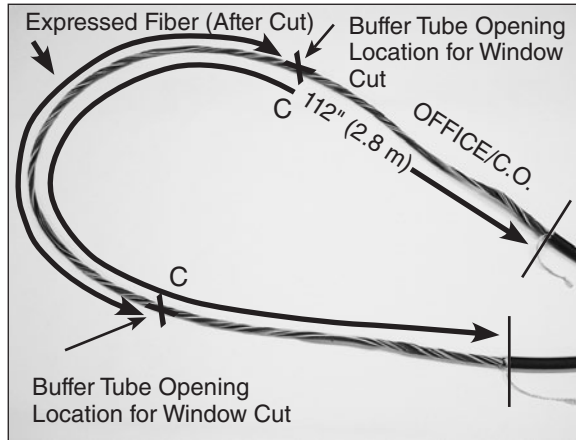
For Applications Where Fiber is Dedicated to the Splice Point	
Sheath Opening	Min. of 77" (2.0 m)
Fiber/Buffer Tube Cut Location	A (see image above)

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

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).

Buffer Tube (After Cut)

Buffer (Loose) Tube Cable

B

154" (3.9 m)

OFFICE/C.O.

Buffer Tube (After Cut)

Ribbon (After Cut)

Ribbon Cable

B

154" (3.9 m)

OFFICE/C.O.

Ribbon (After Cut)
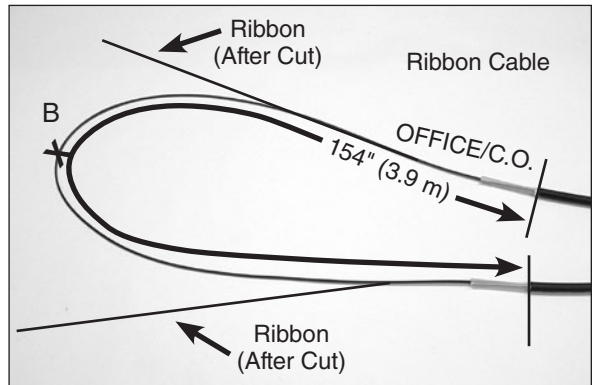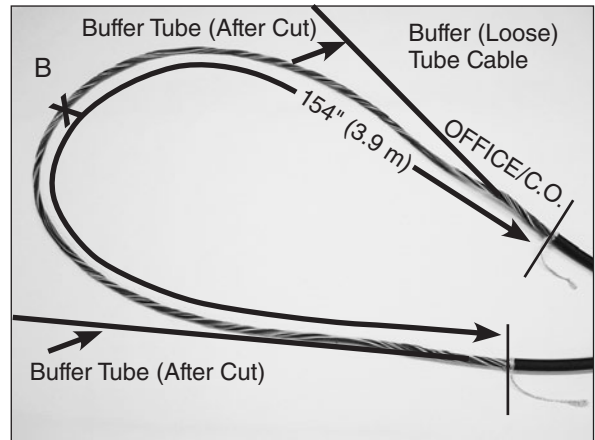
NOTE: When expressing ribbons in the transition tray of the closure at this measurement, the maximum number of ribbons that can be expressed is 12 ribbons (144 fibers).

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)

PLP 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 #5c** Prepare loose tube/buffer tube cable(s) for expressed fiber (buffer tube window cut).

Expressed Fiber (After Cut)

Buffer Tube Opening Location for Window Cut

C 112" (2.8 m)

OFFICE/C.O.

C

Buffer Tube Opening Location for 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)

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.

4.5" (11.3 cm)
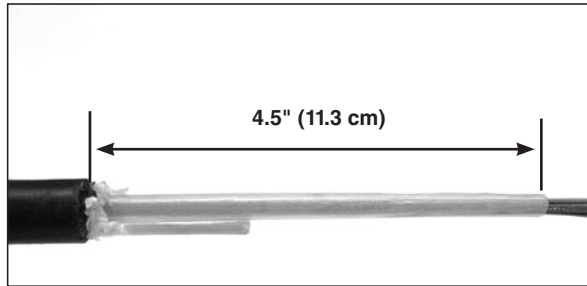
Step #7 If the cable contains Kevlar®, braid roughly 3" (7.2 cm) of the Kevlar.

3" (7.2 cm)
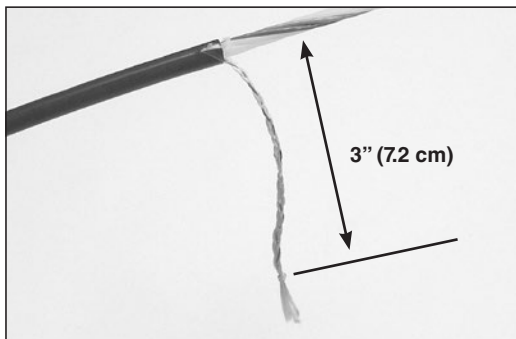
Kevlar® is a registered trademark of DuPont.

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

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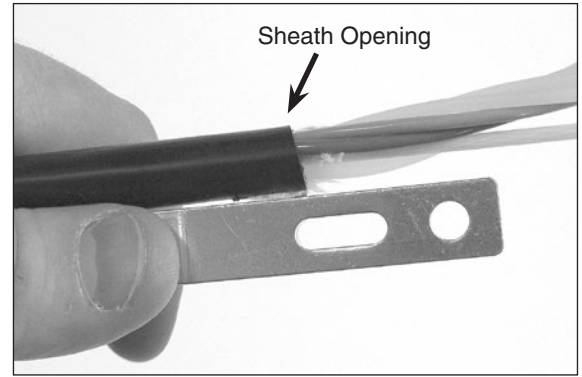
Step #8b Trim strength member(s) flush with end of the strength member bracket(s).

Strength Member Bracket
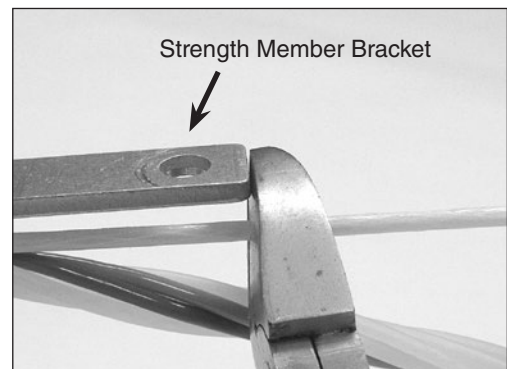
Step #9 Install cap on strength member bracket.
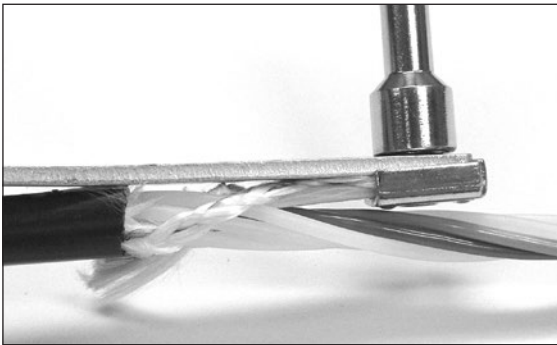

Cap
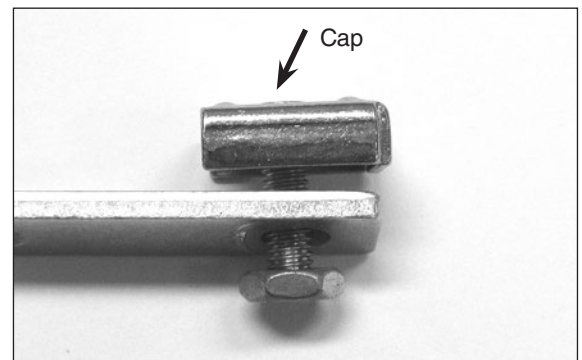
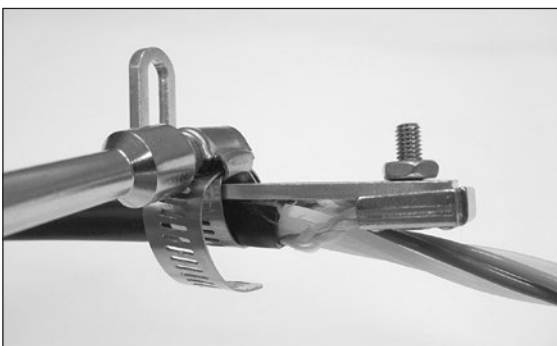**Step #10** Position strength member(s) under cap of strength member bracket.
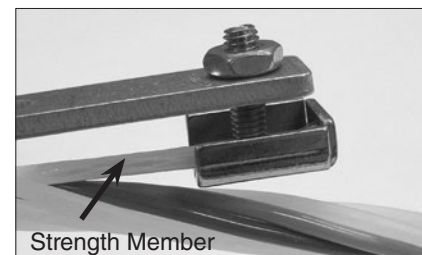
Strength Member

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

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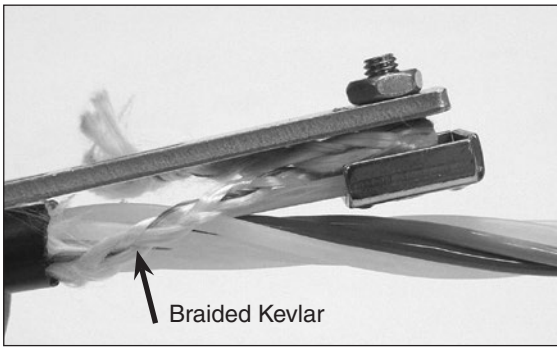
Step #12 Tighten nut of cap to secure strength member and braid under the cap.
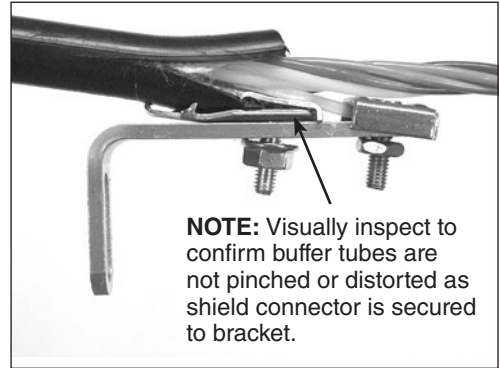

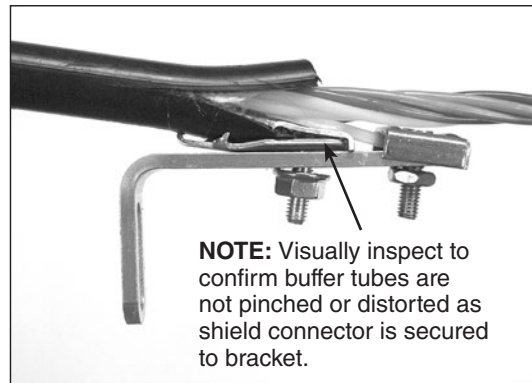**Step #13** Secure cable to strength member bracket with hose clamp.

Attaching Shielded Cable to Strength Member Bracket

Step #14a For shielded cable applications, PLP recommends using a 3M 4460–D/FO Fiber Optic Shield Connector (PLP 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 #14b 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 #14c Secure shielded cable to strength member bracket with hose clamp.

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

Kevlar® is a registered trademark of DuPont.
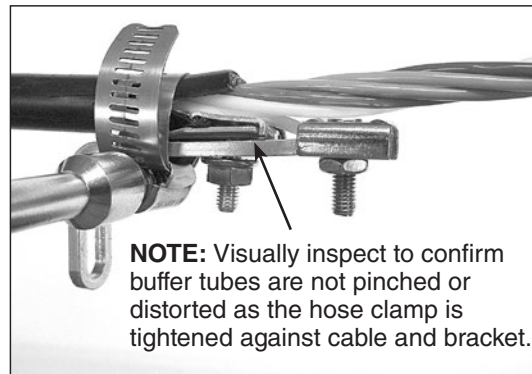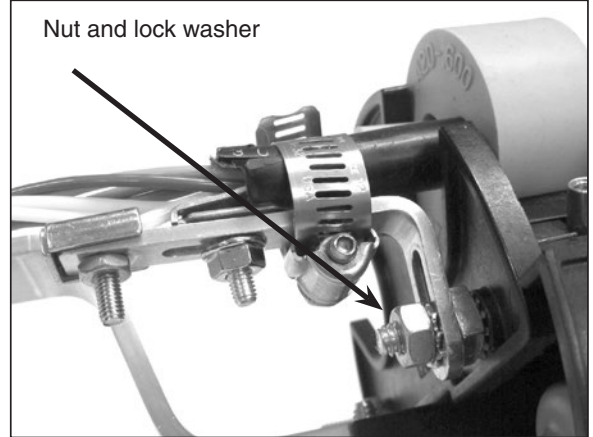
Step #15a Lubricate the outer surface of the grommet.
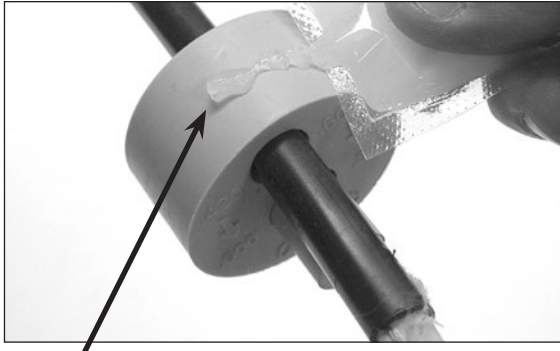
Lubricate sealing surface
of grommet with silicone
lubricant provided.

Step #15b Position grommet in end plate slot.

**Do not align
grommet slit
with end
plate seam.**

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

Step #16b Secure strength member bracket on stud
with lock washer and nut.

Nut and lock washer
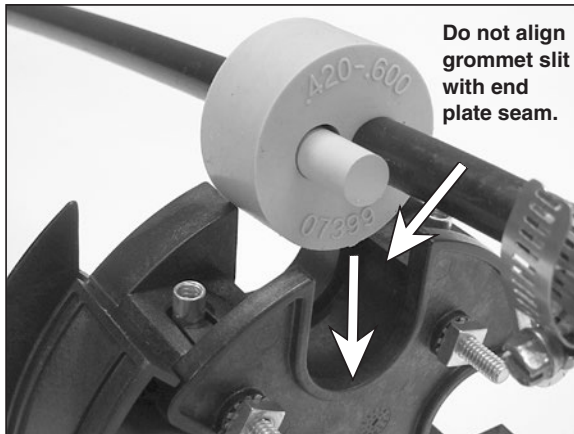
Step #17 Install cable cap and secure with hex
bolts.

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

NOTE: TIGHTEN ALL UNUSED CABLE CAPS.
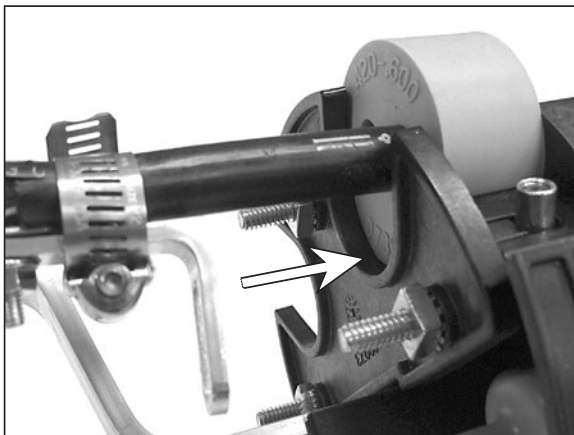
Step #18 Complete end plate assembly.

7

Buffer Tube Applications	**Unitube Applications**

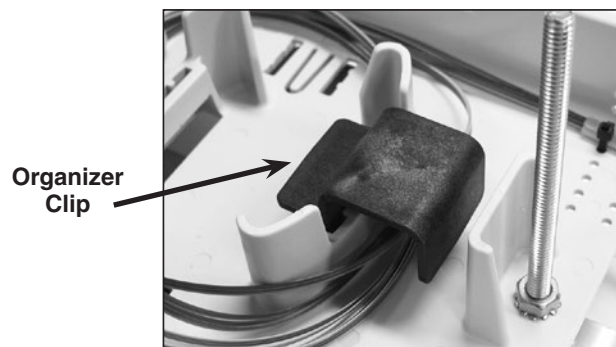**Step #19** Route and store buffer tubes in storage brackets.

Step #21 Route and secure central tube of Unitube cables to transition tray and secure with tie wraps.
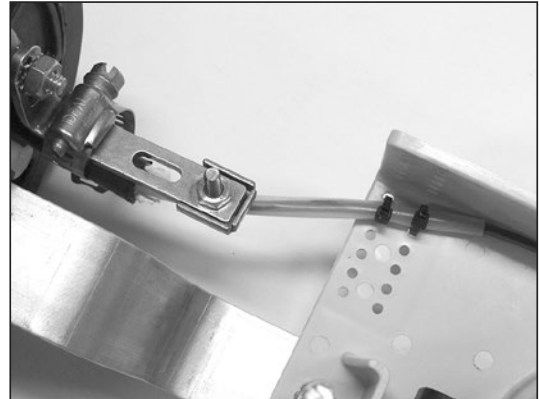
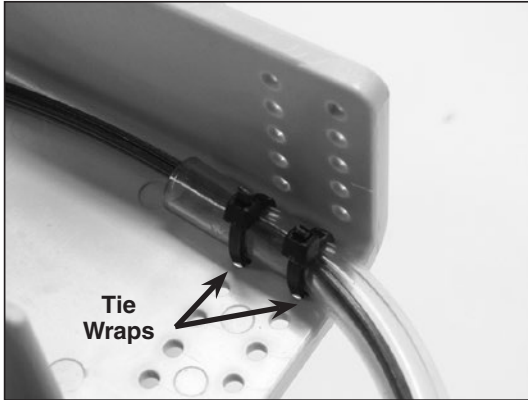**Step #22** Route feeder fibers or ribbons within transition tray.

Step #20 Route buffer tube(s) to splice tray(s) and secure.
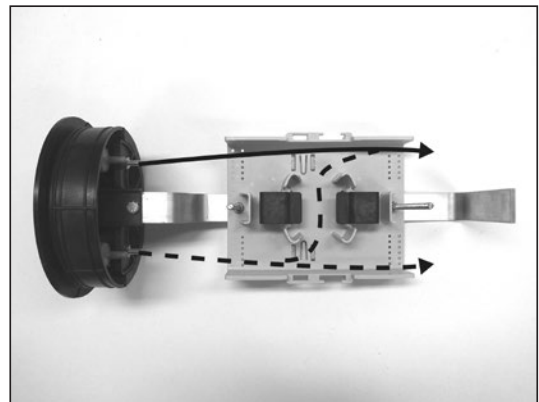
Step #23 Route expressed fibers or ribbons under organizer clips.

Organizer Clip

Step #24   Insert fibers or ribbons to be routed to splice tray(s) into transport tube(s) and secure tubes to transition tray with tie wraps.

Tie Wraps

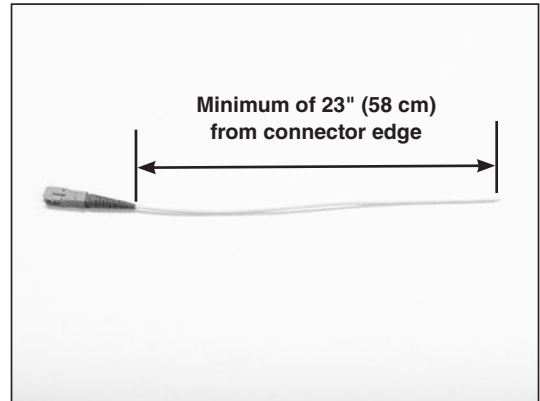**Step #25**   Install cover on transition tray.

Cover
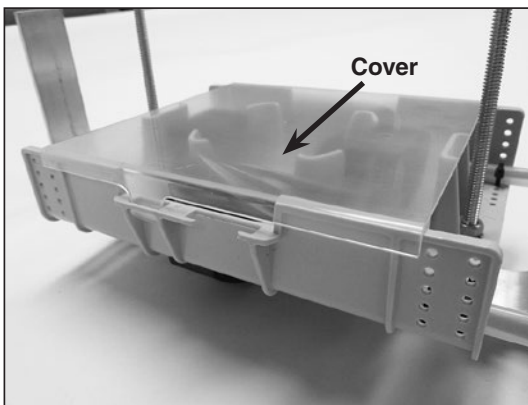
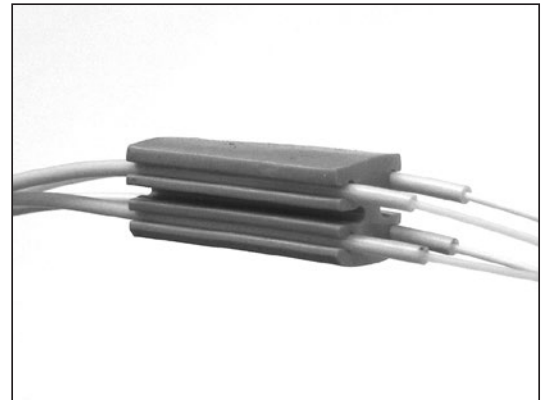**Step #26**   Route transport tube(s) to splice tray(s) and secure.

Kevlar® is a registered trademark of DuPont.
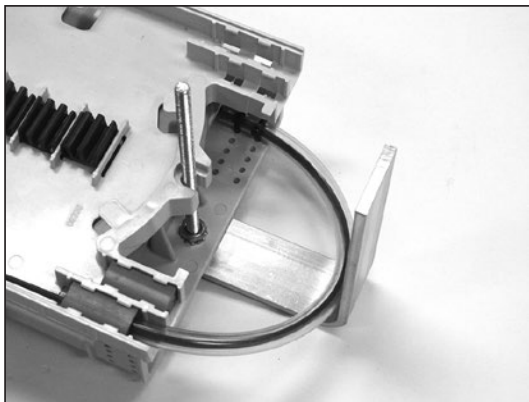
Pigtail Assembly Installation

Step #27   Measure and mark pigtail. Remove the pigtail jacket and Kevlar® beyond this mark.

Minimum of 23" (58 cm) from connector edge

Step #28   Install pigtails into LITE-GRIP® Sleeve.
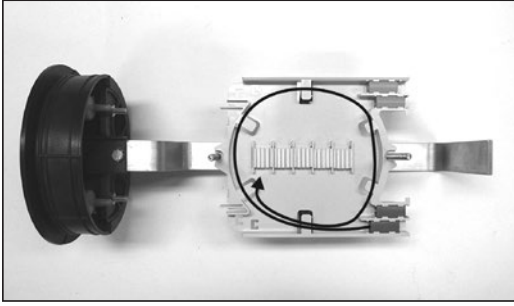

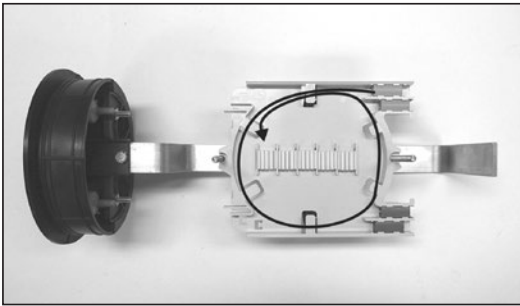**Step #29**   Install LITE-GRIP® Sleeve with pigtails into splice tray.

Splice Tray Management

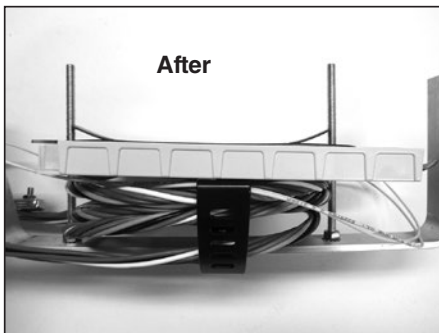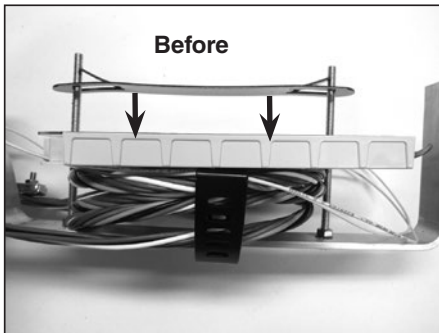**Step #30**   Route incoming fibers in splice tray.

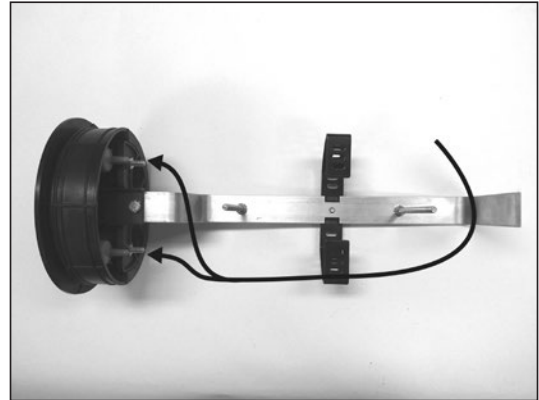**Step #31**   Route outgoing pigtail fibers in splice tray.

Step #32   Splice incoming fibers to outgoing pigtail fibers per your accepted company practices.

Step #33   Secure splice tray(s) with hold down strap.

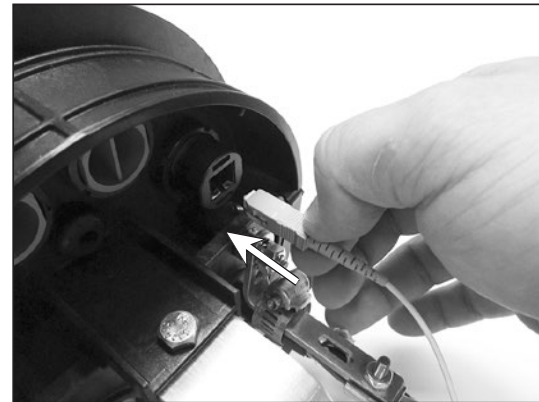**Before**

After

Pigtail Routing

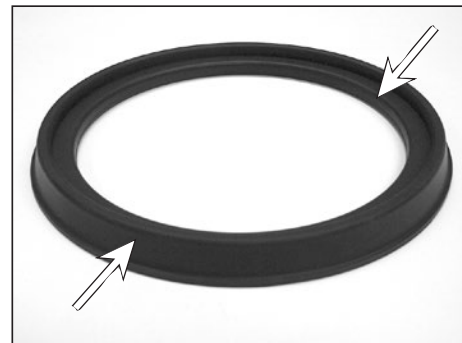**Step #34**   Route pigtails to end plate as shown.

Step #35   Install pigtail connectors into adapters.

Dome & Collar Installation

Step #36   Lubricate all surfaces around gasket with silicone lubricant to assure easy assembly and closure re-entry.
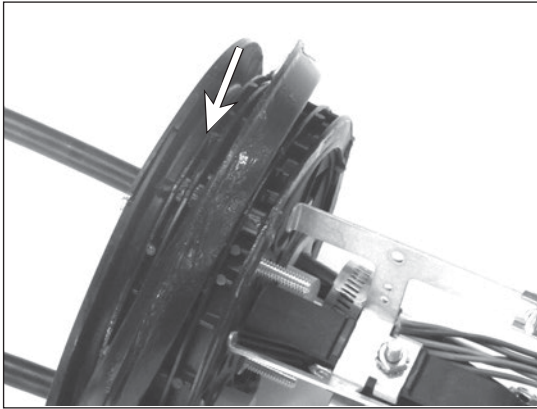
Lubricate all inner surfaces of the gasket.

**Lubricate all outer surfaces of the gasket.**

Step #37   Slide end plate gasket onto end plate and press into groove.

Make sure gasket is fully seated in groove of end plate.
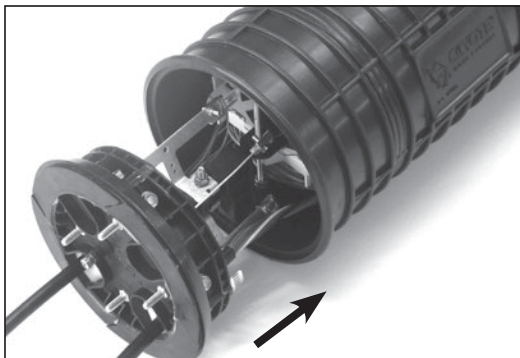

Step #38   Re-tighten all cable cap bolts (step #17) to assure that the cable caps are fully seated. When using a can wrench or nut driver, the installed torque is 35 to 40 in-lbs.
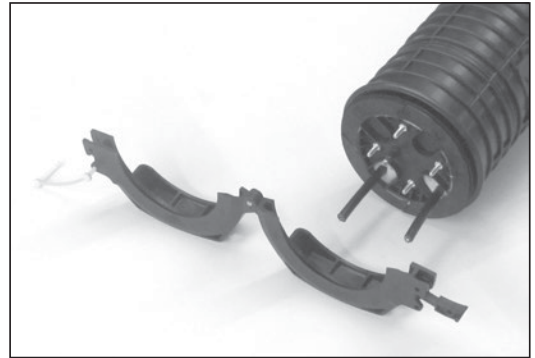
Step #39   Work the gasket into the groove.
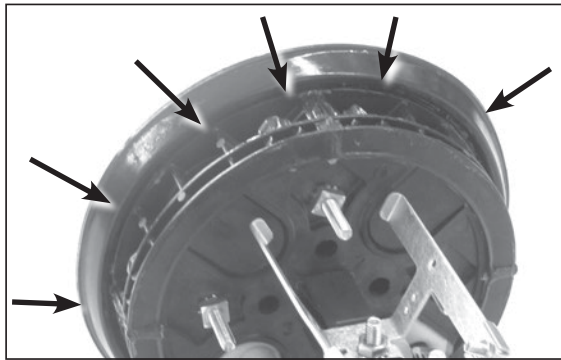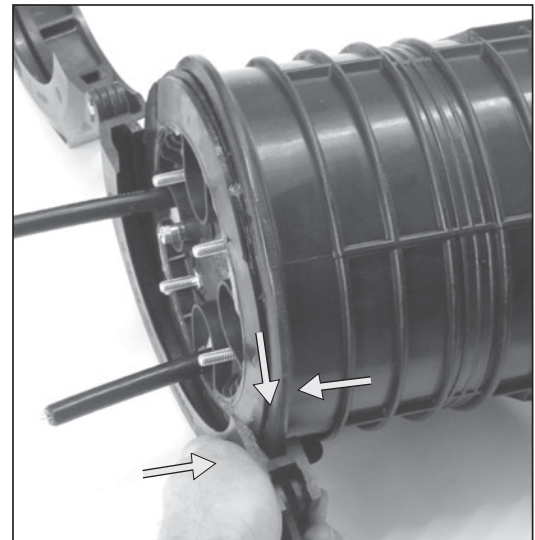

**Step #40**   Position the dome over end plate.

Step #41   Position the collar flat on the work surface in front of the closure as shown below.

Step #42   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 #43   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.
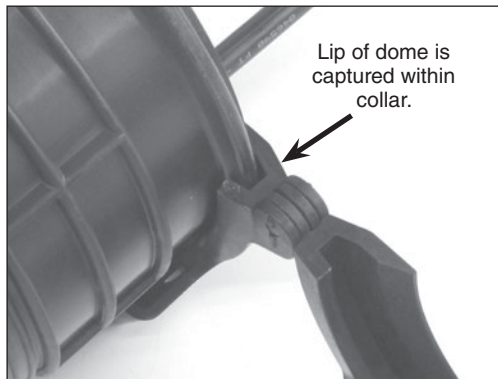

11
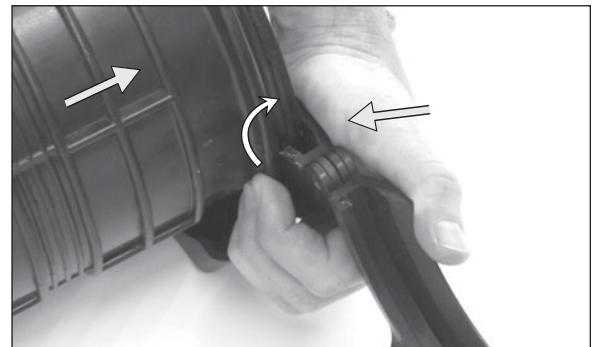
Step #44   Check to make sure the lip of the dome is captured within the collar half

Front Side

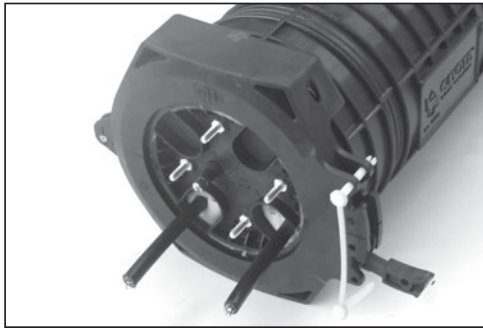Lip of dome is captured within collar.
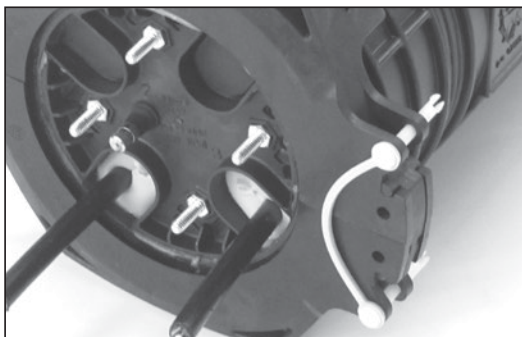
Back Side

Lip of dome is captured within collar.
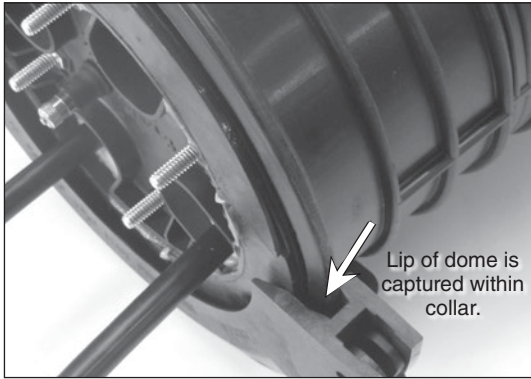
Step #45   Install the other collar half onto the closure.

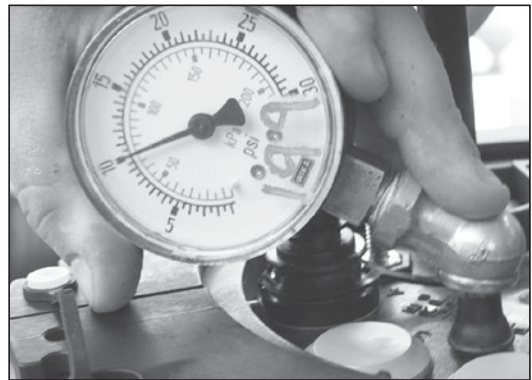**Step #46**   Secure the collar with the latch and pin.

Flash Test Procedure

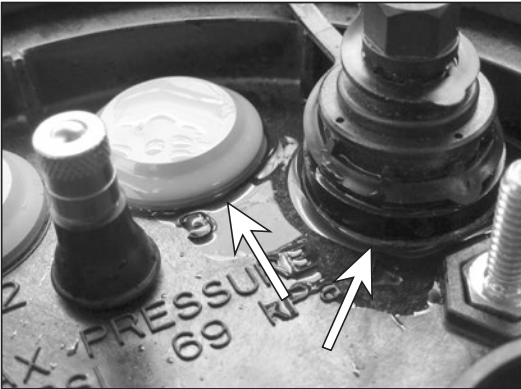**Step #47**   Remove cap from air valve of end plate.

Step #48   Pressurize closure up to a max of 10psi.

Step #49a Spray all sealing surfaces of the dome end plate with soapy water to determine if there are any leaks.
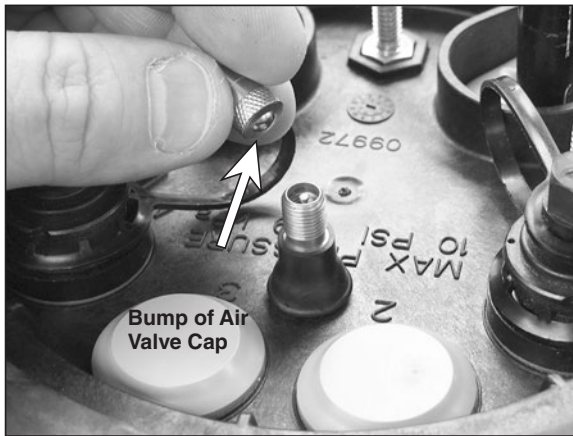

Step #49b Make sure to spray and check for leaks around the O-Rings of the hardened adapters and plugs.

O-Rings

Step #50 Release the pressure in the closure using the bump on the top of the air valve cap.

Bump of Air Valve Cap

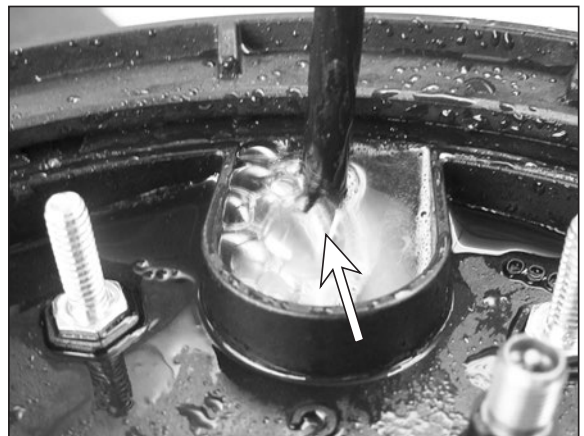## Common End Plate Leaks During Flash Testing

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

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.
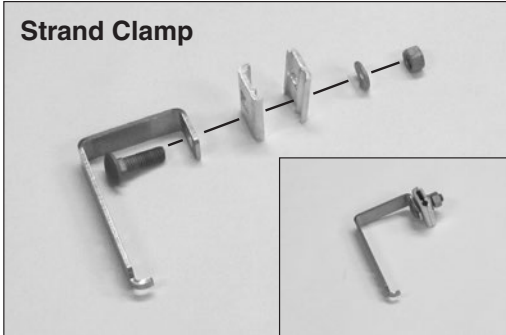

Leak occurring at the cable entry of the grommet

Aerial Mounting Options

Step #51a **For 6.5" Dome Strand Mount Aerial Offset Bracket Kit (P/N: 8004035) and 6.5" Dome ADSS Mount Aerial Offset Bracket Kit (P/N: 8004036).** Assemble each bug nut or ADSS clamp to each top aerial offset bracket as shown below.

Strand Clamp

ADSS Clamp

Step #51b **For 6.5" Dome Strand Mount Aerial Offset Bracket Kit (P/N: 8004035) and 6.5" Dome ADSS Mount Aerial Offset Bracket Kit (P/N: 8004036).**

For Shorter Spacing. Align the top aerial offset bracket with the bottom aerial offset bracket in either Position 1 or Position 2 as shown below. Secure the top aerial offset bracket to the bottom aerial offset bracket with the bolts and keps nuts provided.

Position 1 – ADSS Clamp Shown
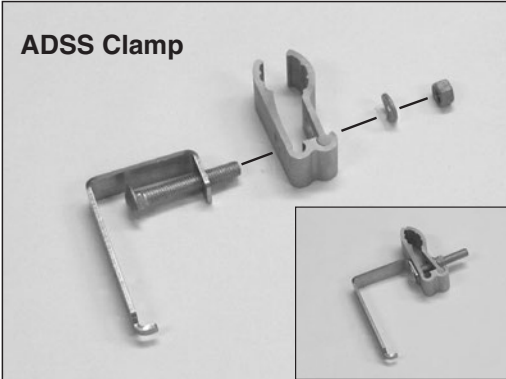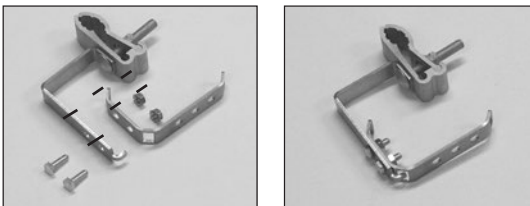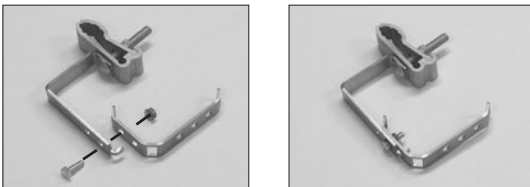
Position 2 – ADSS Clamp Shown

Step #51c **For 6.5" Dome Strand Mount Aerial Offset Bracket Kit (P/N: 8004035) and 6.5" Dome ADSS Mount Aerial Offset Bracket Kit (P/N: 8004036).**

For Taller Spacing. Align the top aerial offset bracket with the bottom aerial offset bracket in either Position 1 or Position 2 as shown below. Secure the top aerial offset bracket to the bottom aerial offset bracket with the bolts and keps nuts provided.

Position 1 – Strand Clamp Shown

Position 2 – Strand Clamp Shown

Step #52 **6.5" Dome Strand Mount Aerial Offset Bracket Kit (P/N: 8004035) and 6.5" Dome ADSS Mount Aerial Offset Bracket Kit (P/N: 8004036).** Insert hose clamp through slots in each of the bottom aerial offset brackets.

Slots
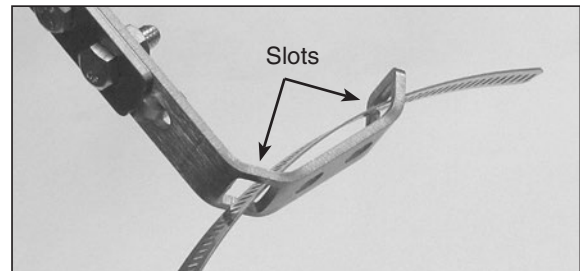
Step #53 **6.5" Dome Strand Mount Aerial Offset Bracket Kit (P/N: 8004035) and 6.5" Dome ADSS Mount Aerial Offset Bracket Kit (P/N: 8004036).** Tighten each hose clamp around the dome.

Step #54   6.5" Dome Strand Mount Aerial Offset Bracket Kit (P/N: 8004035) and 6.5" Dome ADSS Mount Aerial Offset Bracket Kit (P/N: 8004036). Bracket installed on dome closure.

Strand Aerial Offset Bracket shown secured on a 6.5" Dome

Hand Hole Mounting Option

Step #55   COYOTE Universal Mounting Bracket for Hand Hole Applications (P/N: 8003835). Secure the Universal Mounting Bracket to the inner wall of the hand hole using 2 screws.

Step #56   COYOTE Universal Mounting Bracket for Hand Hole Applications (P/N: 8003835). Insert banding (plastic or metal) through the slots of the hanger brackets.
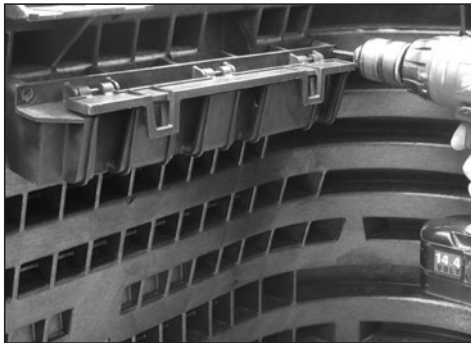
Step #57   COYOTE Universal Mounting Bracket for Hand Hole Applications (P/N: 8003835). Position the brackets in the banding channels of the dome. Tighten the banding until the brackets are secure.
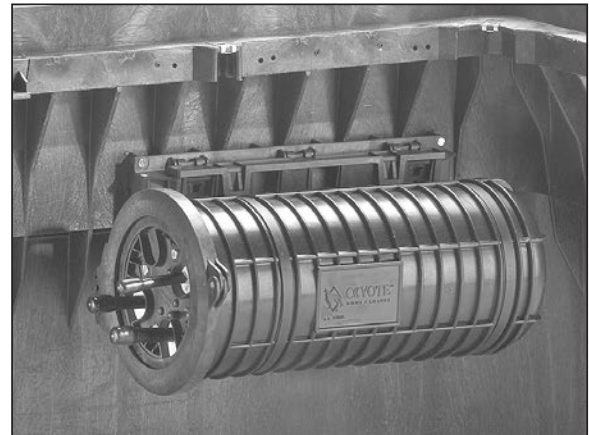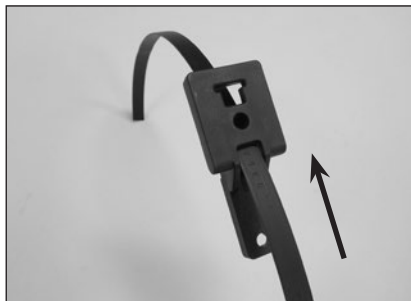
Step #58   COYOTE Universal Mounting Bracket for Hand Hole Applications (P/N: 8003835). Slide the hanger brackets into the proper slots of the Universal Mounting Bracket and snap the hinged lid into place to secure the hanger brackets.

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Step #59   The 6.5" COYOTE Dome Pole/Wall Mount Bracket (P/N: 8003702).

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

Stud Mount Plate

1/8" (3mm)
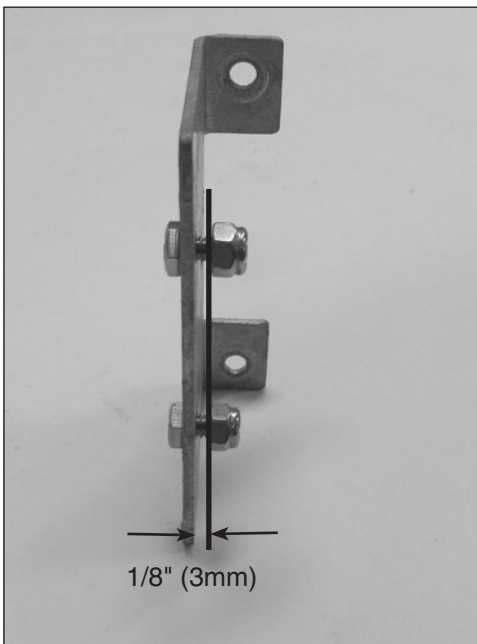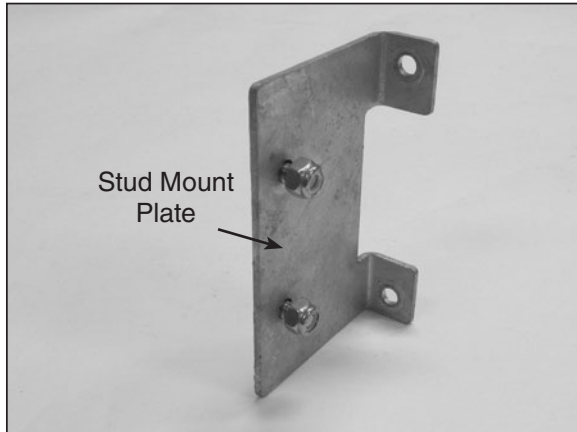
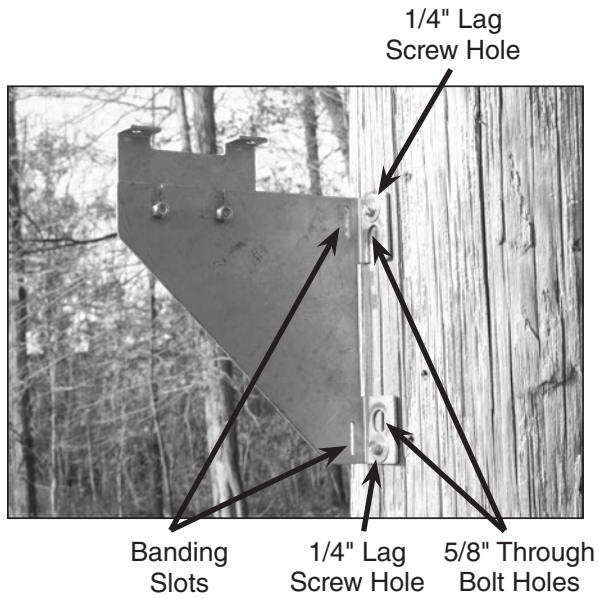**Step #60   The 6.5" COYOTE Dome Pole/Wall Mount Bracket (P/N: 8003702).**

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

Stud Mount Plate

Pole/Wall Mount Bracket

Secure Lock Nuts
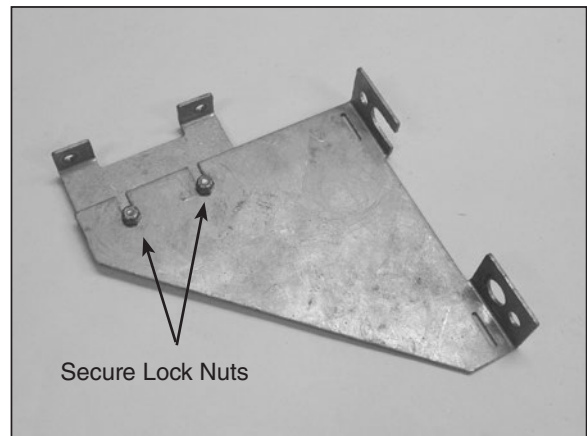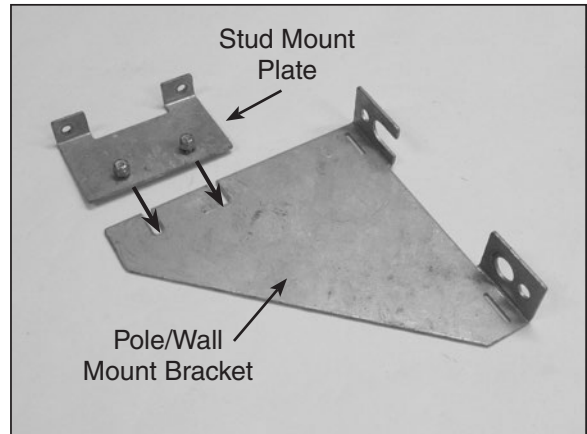
Step #61   The 6.5" COYOTE Dome Pole/Wall Mount Bracket (P/N: 8003702).

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

1/4" Lag
Screw Hole

Banding
Slots

1/4" Lag
Screw Hole

5/8" Through
Bolt Holes

Step #62   The 6.5" COYOTE Dome Pole/Wall Mount Bracket (P/N: 8003702).

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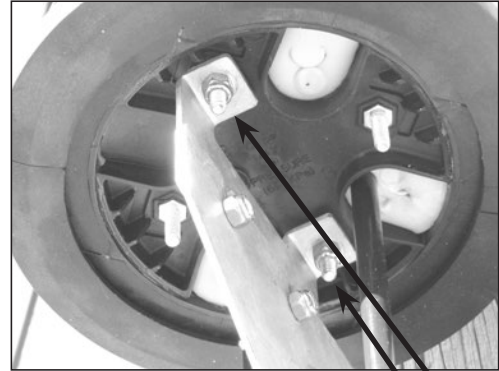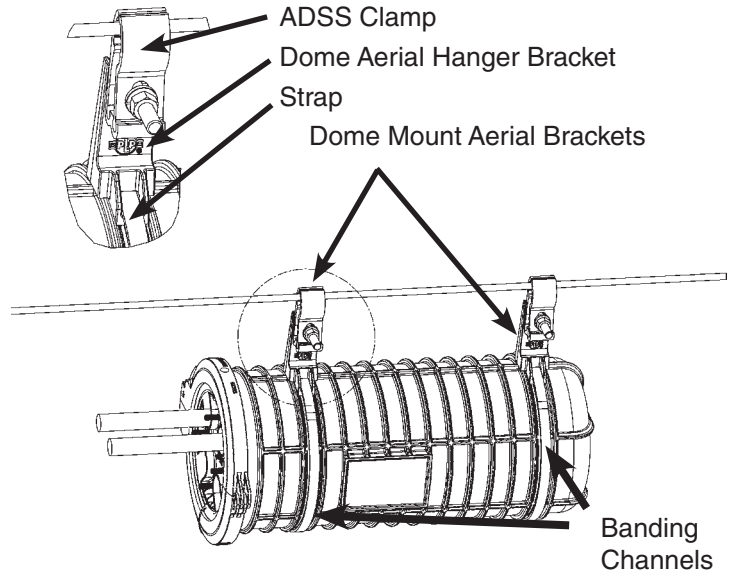

Secure Lock Nuts

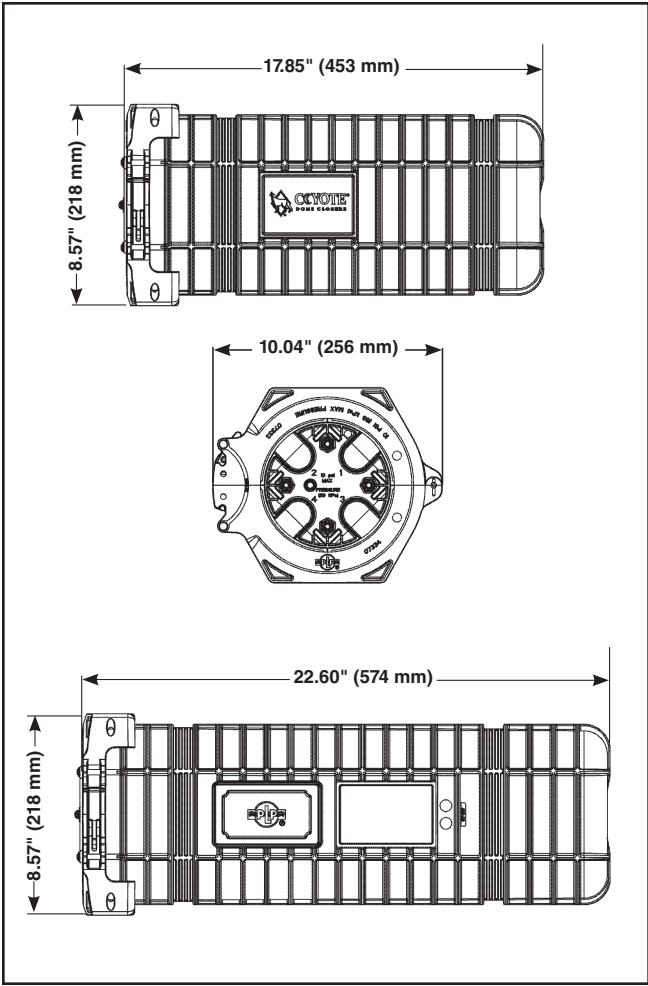**Step #63a** **Dome Aerial Mounting Bracket – Dome Mount – for 6.5" x 17" or 6.5" x 22" Dome Closures.** The COYOTE® Dome Mount Aerial Bracket Kit (Cat. No. 8003831) can be used to suspend the COYOTE® Dome Closure from the messenger wire. To install the dome, mount aerial brackets, position the brackets 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.

Bug Nut
Dome Aerial Hanger Bracket
Strap
Dome Mount Aerial Brackets
Banding Channels
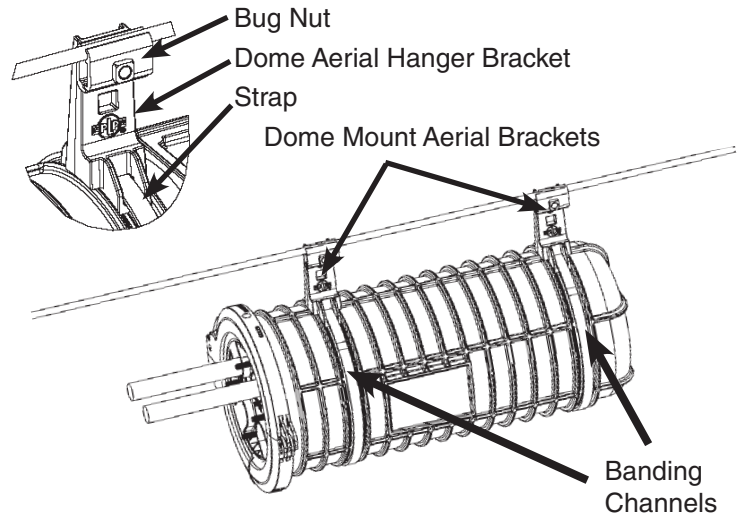
Step #63b **6.5" x 17"or 6.5" x 22" Dome Mount Aerial Bracket – Dome Mount – for ADSS.** The COYOTE® Dome Mount Aerial Bracket Kit for ADSS (Cat. No. 8003833) can be used to suspend the 6.5" x 17" or 6.5" x 22" COYOTE® Dome Closure from ADSS cable. To install the dome, mount aerial brackets, position 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 dead-end with the ADSS clamp.

ADSS Clamp
Dome Aerial Hanger Bracket
Strap
Dome Mount Aerial Brackets
Banding Channels

17.85" (453 mm)

8.57" (218 mm)

10.04" (256 mm)

22.60" (574 mm)

8.57" (218 mm)

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.

PLP **PREFORMED** LINE PRODUCTS

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