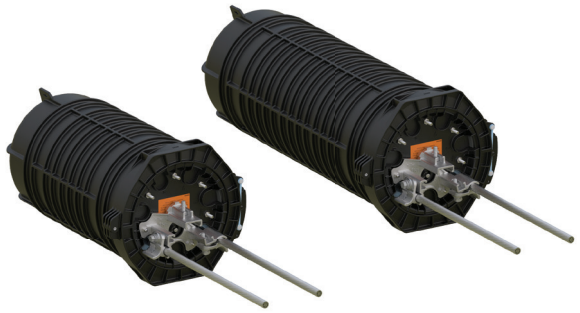


COYOTE® DOME CLOSURES

9.5" x 19" AND 9.5" x 28"

WITH FIBERLIGN® CRB SYSTEM FOR OPGW

INSTALLATION INSTRUCTIONS

⚠ IMPORTANT SAFETY INFORMATION

READ AND COMPLETELY UNDERSTAND ALL INSTRUCTIONS BEFORE INSTALLING PRODUCT. FAILURE TO FOLLOW THESE INSTRUCTIONS MAY RESULT IN PERSONAL INJURY OR DEATH.

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. Be sure to wear proper safety equipment per your company protocol. These instructions are not intended to supersede any company construction or safety standards. These instructions are offered only to illustrate safe installation for the individual. PLP products are intended for the specified application only. Do not modify this product under any circumstances. Do not reuse or reinstall any PLP product unless that capability is expressly indicated in the product's Installation Instructions. For proper performance and personal safety, be sure to select the proper PLP product before installation. PLP products are precision devices. To ensure proper performance, they should be stored in cartons under cover and handled carefully.

PACKAGE COMPONENTS

COYOTE DOME CLOSURE 9.5" x 19"

Organizer for Stainless Steel Buffer Tubes Shown

NOTE: For loose tube plastic buffer tube applications, Items 11, 12, 13, and 14 are not included.

Flexible plastic buffer tubes can be routed directly to splice trays and provide sufficient protection for the optical fibers within.

1. End Plate with 9.5" x 19" Organizer with CRB System (1)
2. COYOTE Dome Cover 19" (1)
3. LITE-GRIP® Short Low Profile 24 CT. Splice Tray (1)
4. 12-Pack of 40 mm Single Fusion Heat Shrink Splice Protectors (2)
5. Dome Gasket (1)
6. Dome Collar (1)
7. Small Parts Bag (1)
8. 4-Pack Grommet Kit (1) (0.40" - 0.60" and 0.60" - 0.85" Cable Ranges (1)
9. Grommet Kit (0.30" – 0.43" Cable Range) (2)
10. Mounting Adapter Bracket (1)
11. Transport Tubing Kit - Included only with Closure Kits for Stainless Steel Buffer Tube Applications (2)
12. Transition Furcation Tube Kit (0.102" – 0.110" Stainless Steel Buffer Tube OD Range) - Included only with Closure Kits for Stainless Steel Buffer Tube Applications (2)
13. Transition Furcation Tube Kit (0.118" – 0.126" Stainless Steel Buffer Tube OD Range) - Included only with Closure Kits for Stainless Steel Buffer Tube Applications (2)
14. Transition Furcation Tube Kit (0.133" – 0.154" Stainless Steel Buffer Tube OD Range) - Included only with Closure Kits for Stainless Steel Buffer Tube Applications (2)

Tools Required:

- 3/8" & 7/16" Can Wrench or Socket Wrench
- Snips
- Side Cutters
- Fiber Optic Cable Opening Tools
- 1/4" Nut Driver
- Utility Knife
- Small File or Cutting Wheel
- Small Hose Clamps
- Cloth Tape or Tie Wraps

Additional tray options can be found in the Appendix.

PACKAGE COMPONENTS

COYOTE DOME CLOSURE 9.5" x 28"

Organizer for Stainless Steel Buffer Tubes Shown

NOTE: For loose tube plastic buffer tube applications, Items 11, 12, 13, and 14 are not included.

Flexible plastic buffer tubes can be routed directly to splice trays and provide sufficient protection for the optical fibers within.

1. End Plate with 9.5" x 28" Organizer with CRB System (1)
2. COYOTE Dome Cover 28" (1)
3. LITE-GRIP® Long Deep Profile 72 CT. Splice Tray (1)
4. 36-Pack of 40 mm Single Fusion Heat Shrink Splice Protectors (2)
5. Dome Gasket (1)
6. Dome Collar (1)
7. Small Parts Bag (1)
8. 4-Pack Grommet Kit (1) (0.40" - 0.60" and 0.60" - 0.85" Cable Ranges (1)
9. Grommet Kit (0.30" – 0.43" Cable Range) (2)
10. Mounting Adapter Bracket (1)
11. Transport Tubing Kit - Included only with Closure Kits for Stainless Steel Buffer Tube Applications (2)
12. Transition Furcation Tube Kit (0.102" – 0.110" Stainless Steel Buffer Tube OD Range) - Included only with Closure Kits for Stainless Steel Buffer Tube Applications (2)
13. Transition Furcation Tube Kit (0.118" – 0.126" Stainless Steel Buffer Tube OD Range) - Included only with Closure Kits for Stainless Steel Buffer Tube Applications (2)
14. Transition Furcation Tube Kit (0.133" – 0.154" Stainless Steel Buffer Tube OD Range) - Included only with Closure Kits for Stainless Steel Buffer Tube Applications (2)

Tools Required:

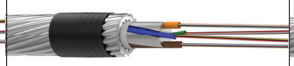
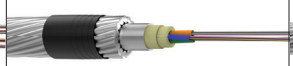
- 3/8" & 7/16" Can Wrench or Socket Wrench
- Snips
- Side Cutters
- Fiber Optic Cable Opening Tools
- 1/4" Nut Driver
- Utility Knife
- Small File or Cutting Wheel
- Small Hose Clamps
- Cloth Tape or Tie Wraps

Additional tray options can be found in the Appendix.

CLOSURE & CABLE SELECTION

1 Ensure you have the correct closure for your OPGW Cable.

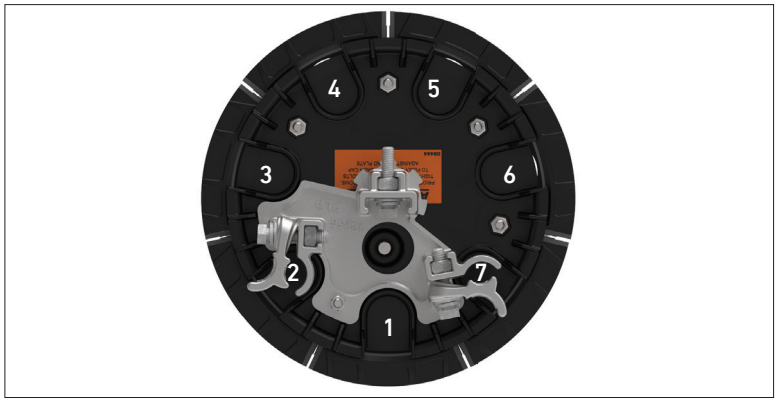
COYOTE® 9.5" Dome Closure Guide for Various OPGW Types

PLP Catalog Number for Closure Kit	OPGW Cable Types			
	Stranded with Stainless Steel Buffer Tubes Type 1	Slotted Core with Plastic Buffer Tubes Type 2	Central Aluminum Tube with Plastic Buffer Tube Type 3	Central Aluminum Tube with or without Stainless Steel Buffer Tube Type 4
				
COYW919P0001		X	X	
COYW919S0001	X			X
COYW928P0001		X	X	
COYW928S0001	X			X

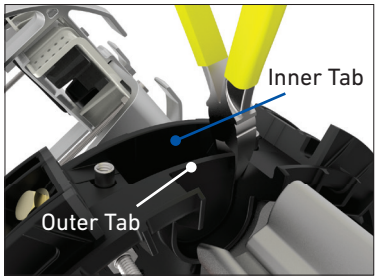
END PLATE PREPARATION

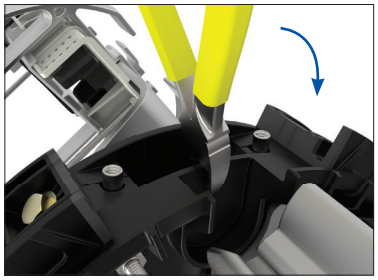
2 Determine which cable ports will be used and mark the respective breakout tabs of the end plate. The main OPGW cables will need to be placed in cable ports 2 and 7.

NOTE: Port 1 cannot be used to enter OPGW or any other cables into the closure.



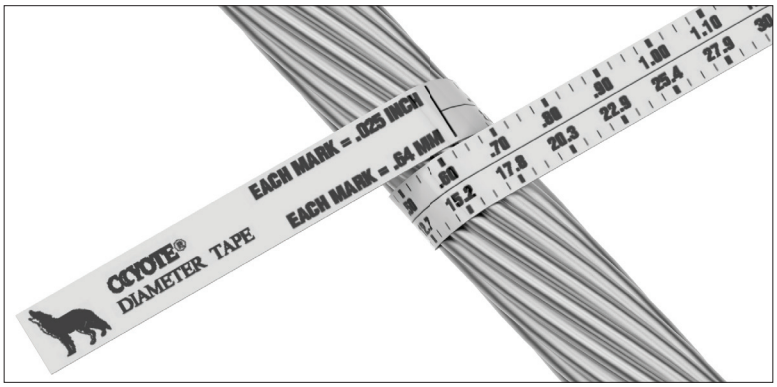
3 Remove the end plate caps from the selected cable ports. Break out the outer and inner tabs of each cable port by snipping the grooves on both sides of each tab with side cutters. Once the grooves have been snipped, remove each tab by pulling the tab outwards from the end plate.



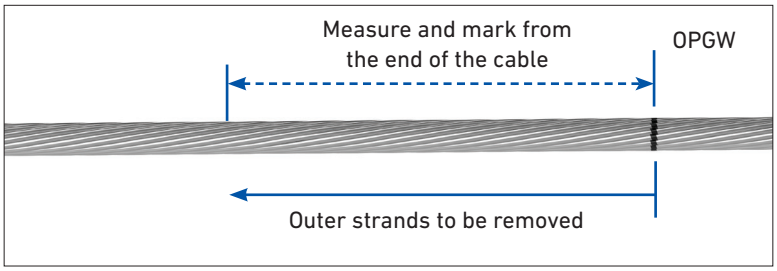


CABLE PREPARATION

4 Measure the cable to determine the diameter and hole location to use in the grommet.

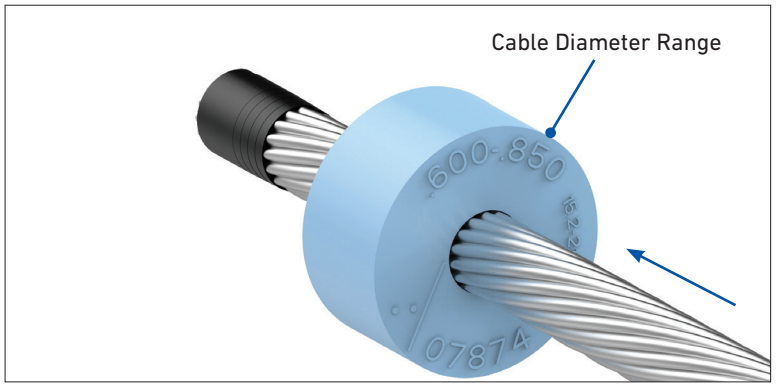


5 Measure and mark the outer strands of the OPGW from the cut end of the OPGW as shown. Tape, tie wrap, or hose clamp may be used to retain the strands for the next steps.

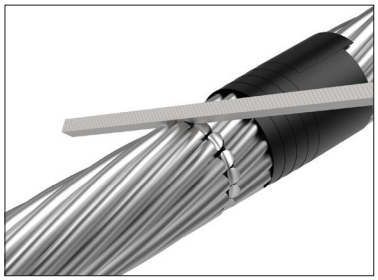


Minimum Sheath Opening for Cut OPGW Applications	
9.5 x 19" Dome Closure	Min. of 79" (2.0 m)
9.5 x 28" Dome Closure	Min. of 98" (2.4 m)

6 Insert the OPGW cable through the grommet until the grommet has passed the marked location where the outer strands of the OPGW will be removed (see next step).



7 Place either a hose clamp or electrical tape over the outer stranding as shown in the image



WARNING

Wear eye protection, protective clothing, and safety gloves while removing strands to avoid injury.

Remove the outer strand layer of the OPGW at the marked location. If there are multiple outer layers, place a mark on each layer of strand where the previous layer has been cut. Remove strands by recommended practice of the manufacturer, which may include scoring the strands with a file or thin cutting wheel to weaken the strands before snapping them off.

8 Mark the inner layer (central layer) according to the type of OPGW being used.

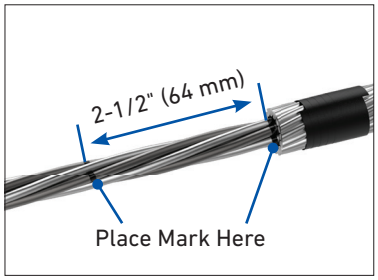
Type 1: Mark all aluminum strands and stainless steel buffer tubes at the cut ends of the outer strands. Place a second mark on the buffer tubes 2-1/2" (64 mm) away from the cut ends of the outer strands.

Type 2: Mark the slotted core at the cut ends of the outer strands.

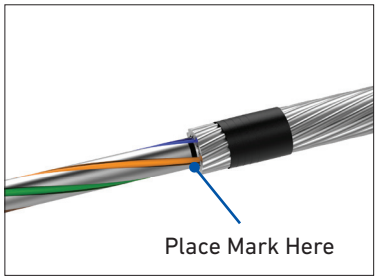
Type 3: Mark the aluminum tube at the cut ends of the outer strand.

Type 4A: Mark the aluminum tube at the cut ends of the outer strand.

Type 4B: Mark the aluminum tube 1-1/2" (38 mm) from the cut ends of the outer strand.



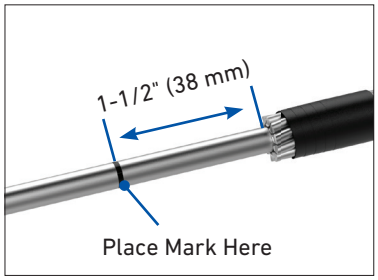
Type 1: OPGW with Stranded Stainless Steel Buffer Tubes



Type 2: OPGW with Stranded Stainless Steel Buffer Tubes

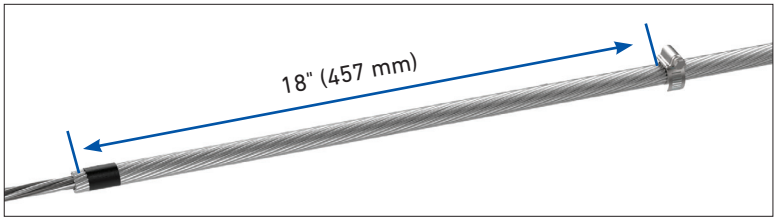
Type 3: OPGW with Central Aluminum Tube and Plastic Buffer Tubes

Type 4A: OPGW with Central Aluminum Core (with Inner Stainless Steel Buffer Tube)

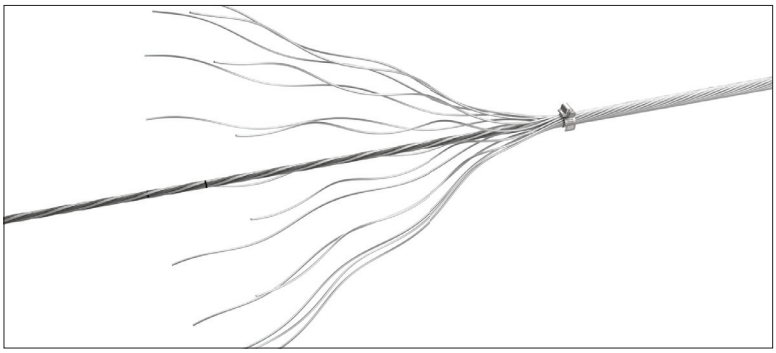


Type 4B: OPGW with Central Aluminum Core (without Inner Stainless Steel Buffer Tube)

9 Place a stainless steel hose clamp (provided) at a minimum of 18" (457 mm) from the cut ends of the outer strand layers.



10 Unwrap the outer strand layer from the cut ends to the hose clamp. If there are multiple outer strand layers, unwrap each strand layer. Strands can be grouped into sets of 3 or 4 strands to provide easier access to the layer where the buffer tubes or central tube is located.



11 Remove the inner layer (central layer) components as follows.

Type 1: Cut and remove all of the strands at the mark placed at the cut ends of the outer strands. Mark and cut the central strength member 1-1/4" (32 mm) away from the mark placed at the cut ends of the outer strands.

Stainless Steel Buffer Tube Furcation - SP2963: Refer to SP2963 to determine proper size transition furcation kit based on OPGW manufacturer, SS buffer tube diameter and fibers per buffer tube.

Transition furcation kits include the following tubing materials:
FPT- Fiber protection tube
HST- Heat Shrink Tube
COT - Clear outer tube

Applications with FPT require opening and removing the SS buffer tube before the FPT can be applied. Type 1 opens the SS buffer tube at the previously marked 2-1/2" distance from the removed outer strands.

Applications without FPT, the HST and COT may be slid over the SS buffer tube before removing it - thus allowing easier installation as explained in SP2963.

NOTE: Straightening the SS buffer tubes using a tube straightener is recommended for SS buffer tubes that have been helically formed. Follow cable manufacturers procedure for straightening.

Type 2: Remove the flexible plastic buffer tubes from the slotted core and cut the aluminum core at the mark placed at the cut ends of the outer strands.

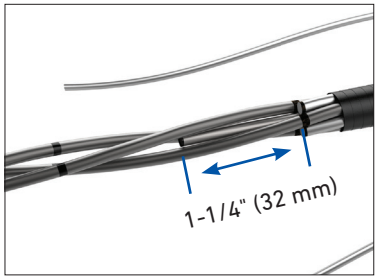
Type 3: Remove the aluminum tube at the mark placed at the cut ends of the outer strands. Braid roughly 3" (72 mm) of the aramid yarn. If an FRP rod strength members exists, cut to the same measurement.

Type 4A: Cut and remove the aluminum tube at the mark placed at the cut ends of the outer strands. Mark the stainless steel within the aluminum tube 1-1/2" (38 mm) away from the cut end of aluminum tube.

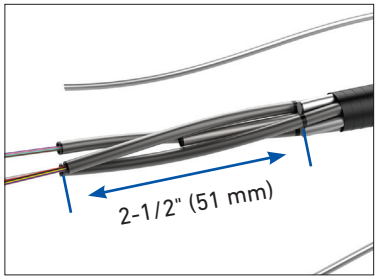
Refer to **SP2963** to determine proper size transition furcation kit based on OPGW manufacturer, SS buffer tube diameter and fibers per buffer tube.

Transition furcation kits include the following tubing materials:
FPT- Fiber protection tube
HST- Heat Shrink Tube
COT - Clear outer tube

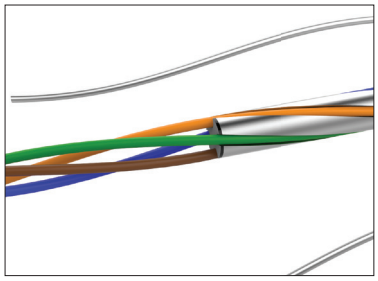
Applications with FPT require opening and removing the SS buffer tube before the FPT can



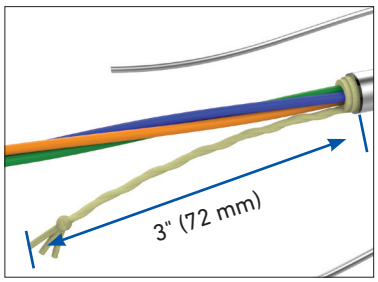
Type 1: OPGW with Stranded Stainless Steel Buffer Tubes



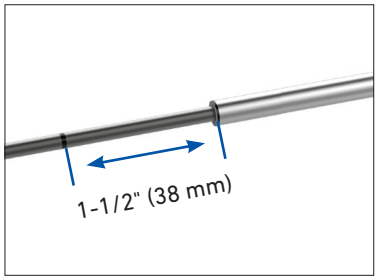
Type 1: OPGW with Stranded Stainless Steel Buffer Tubes



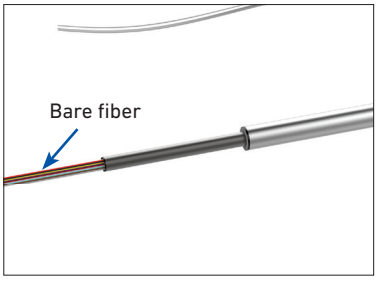
Type 2: OPGW with Slotted Core and Plastic Buffer Tubes



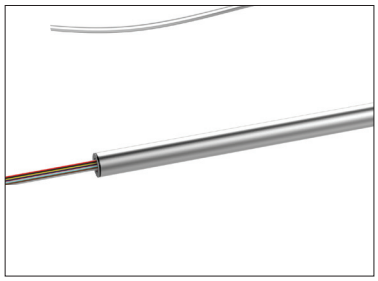
Type 3: OPGW with Central Aluminum Tube and Plastic Buffer Tubes



Type 4A: OPGW with Central Aluminum Core (with Inner Stainless Steel Buffer Tube)



OPTIONAL Type 4A: SS buffer tube opened reveals bare fibers.

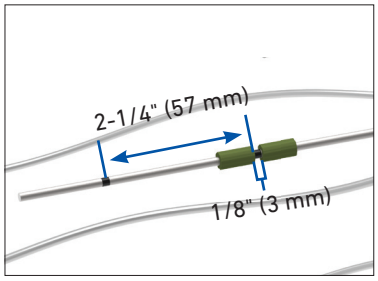


Type 4B: OPGW with Central Aluminum Core (without Inner Stainless Steel Buffer Tube)

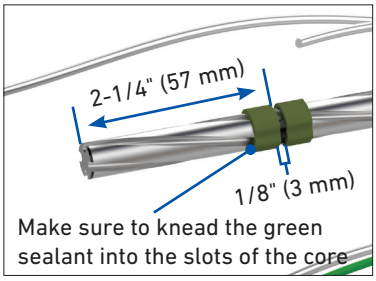
11 (**Continued**) be applied. Type 4A opens the SS buffer tube at the previously marked 1-1/2" distance from end of the cut outer aluminum tube.

Applications without FPT, the HST and COT may be slid over the SS buffer tube before removing it - thus allowing easier installation as explained in SP2963. **Type 4B:** Cut and remove the aluminum tube at the mark placed 1-1/2" (38 mm) from the cut ends of the outer strands. Once the aluminum tube has been removed make sure that the exposed fibers are well protected while finishing preparing the OPGW.

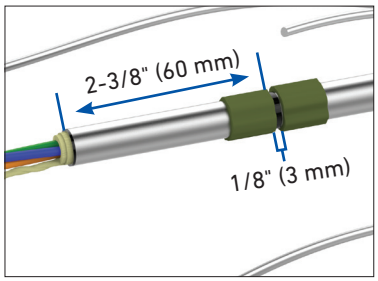
12 Place a mark on the central strength member/ core or aluminum tube where the cut ends of the outer strands are located. If the central tube has been cut at this location, a mark is not required. Place a second mark 2-1/4" (57 mm) inward from the marked location of the cut ends of the outer strands for OPGW Types 1, 2, 4a, and 4b or 2-3/8" (60 mm) for OPGW Type 3. Place one wrap of green sealant on either side of the mark leaving roughly 1/8" (3 mm) gap between the wraps.



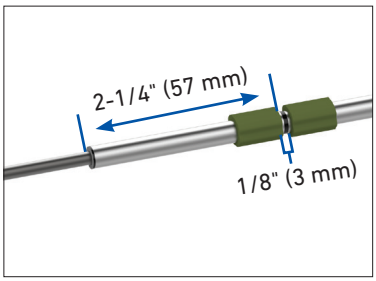
Type 1: OPGW with Stranded Stainless Steel Buffer Tubes



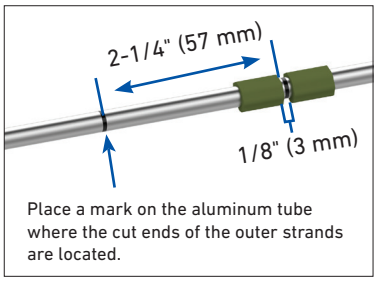
Type 2: OPGW with Slotted Core and Plastic Buffer Tubes



Type 3: OPGW with Central Aluminum Tube and Plastic Buffer Tubes



Type 4A: OPGW with Central Aluminum Core (with Inner Stainless Steel Buffer Tube)



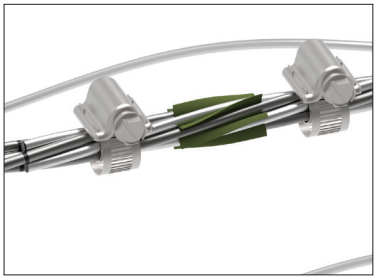
Type 4B: OPGW with Central Aluminum Core (without Inner Stainless Steel Buffer Tube)

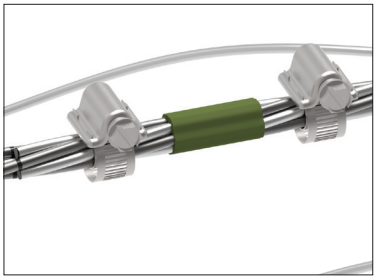
OPGW TYPE 1 CABLE

PREPARATION OF INNER STRAND/BUFFER TUBE LAYER

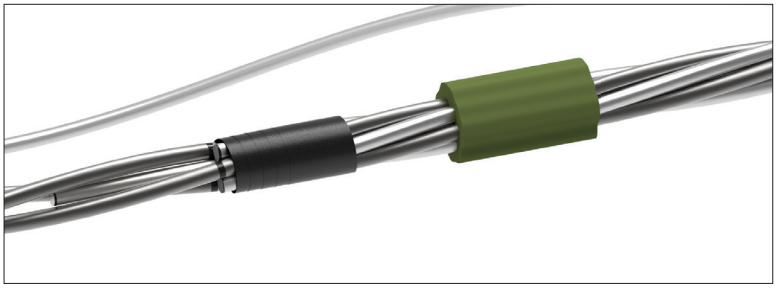
13 Rewrap the inner strands and buffer tubes over the green sealant.

14 Place and tighten two hose clamps on the inner strand/buffer tube layer about 1/2" (13 mm) on either side of the green sealant area so that the green sealant squeezes between the strands and buffer tubes. Spread and press the sealant around the inner strand/buffer tube layer to form a watertight barrier to prohibit water migration through the cable.





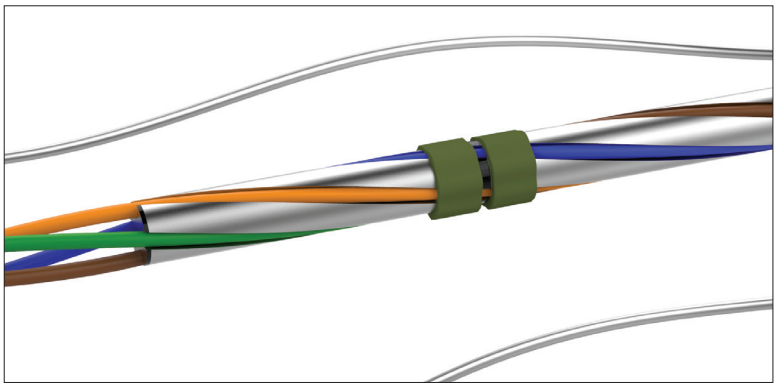
15 Wrap electrical tape around the inner strand/buffer tube layer near the cut ends of the aluminum strands and remove the hose clamps. Place two more wraps of green sealant if second layer of outer strands exists, spaced 1/8" apart over the first layer of green sealant that has been pressed around the outer strands. Minimize the amount to keep the final OD close to the OPGW's nominal diameter. This is necessary to fit the grommet properly without causing difficulty during end cap installation.



OPGW TYPE 2 CABLE

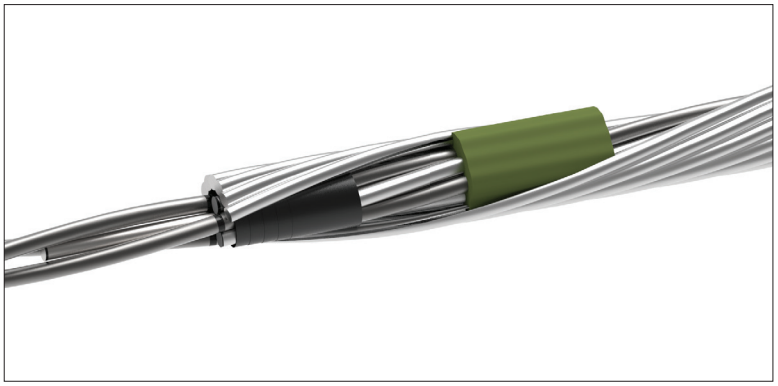
PREPARATION OF SLOTTED CORE AND BUFFER TUBE LAYER

16 Rewrap the buffer tubes over the green sealant and into the slots of the core. Make sure to knead the green sealant over the buffer tubes once they are placed in the slots.

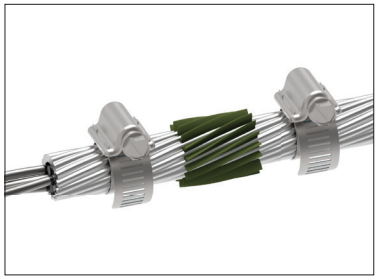


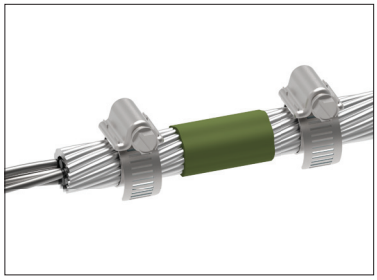
OUTER STRAND LAYER PREPARATION

17 Rewrap the outer strands over the green sealant area of the inner layer of the OPGW cable.



18 Place and tighten two hose clamps on the outer strand layer about 1/2" (13 mm) on either side of the green sealant area so that the green sealant squeezes between the strands. Spread and press the sealant around the outer strand layer to form a watertight barrier.



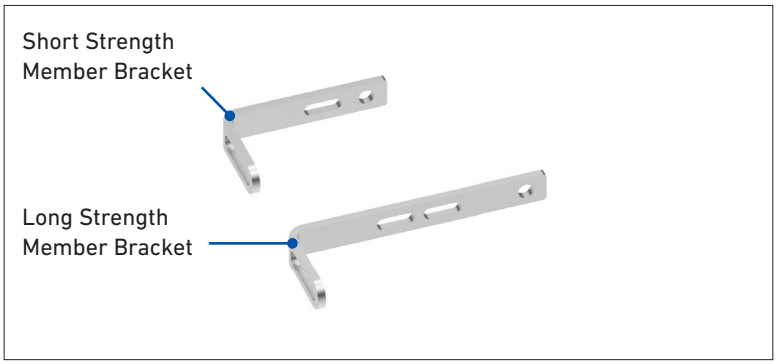


19 If the OPGW has multiple outer strand layers, repeat the process described in steps 15, 17, and 18.

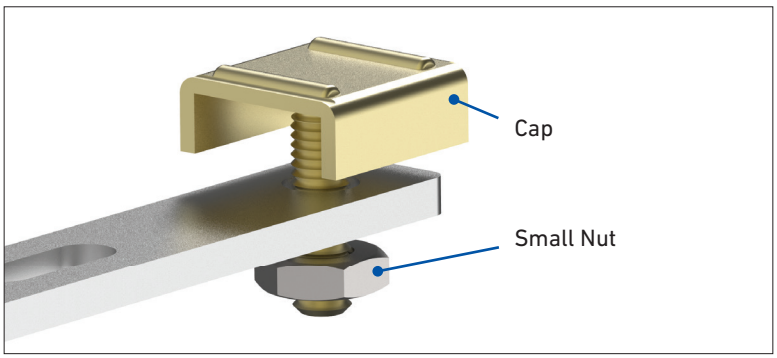
20 Keeping the hose clamps in place, begin wrapping electrical tape over the area of green sealant using a half-lap wrap across a distance of 3-1/2" (89 mm) for all OPGW types.

STRENGTH MEMBER BRACKET SELECTION AND PREPARATION

21 Select the short strength member bracket when using OPGW Types 1, 2, 4A, and 4B. Select the long strength member bracket when using OPGW Type 3.



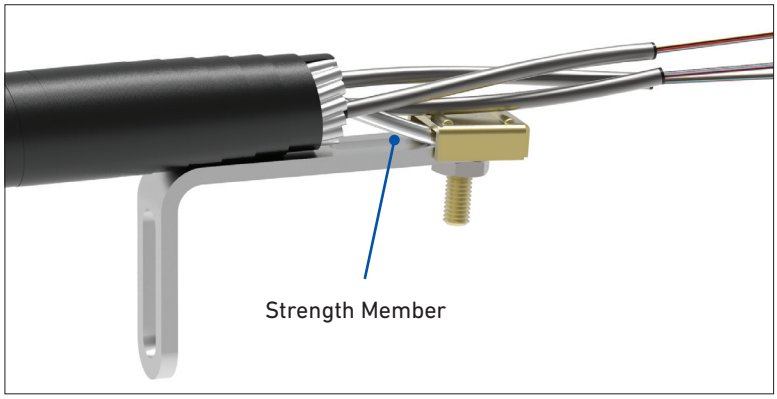
22 Install the cap on the strength member bracket and loosely secure it to the bracket with the small nut provided.



OPGW TYPE 1 CABLE

SECURING STRENGTH MEMBER TO STRENGTH MEMBER BRACKET

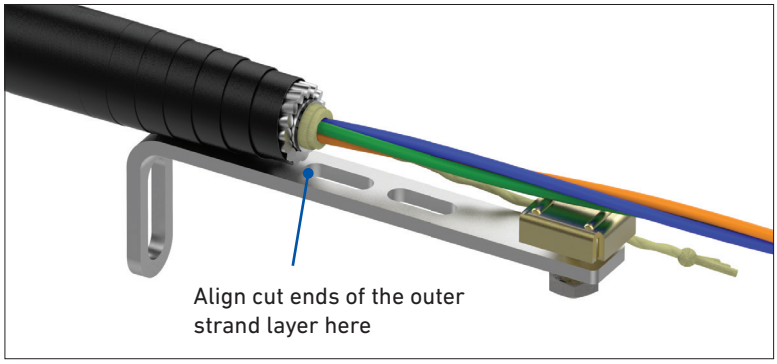
23 Position the strength member under the cap of the strength member bracket and tighten the nut of the cap to secure.



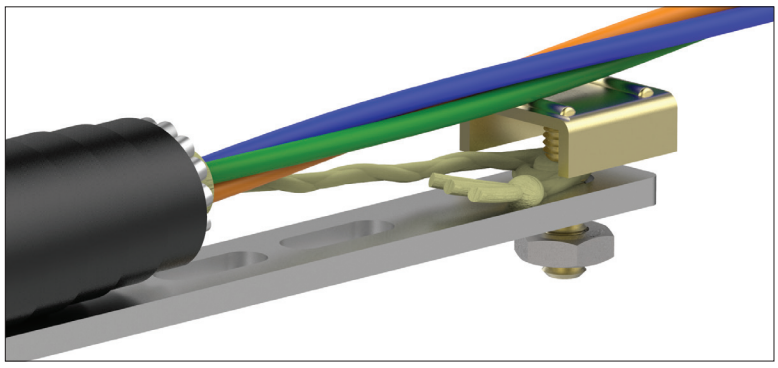
OPGW TYPE 3 CABLE

SECURING ARAMID YARN TO STRENGTH MEMBER BRACKET

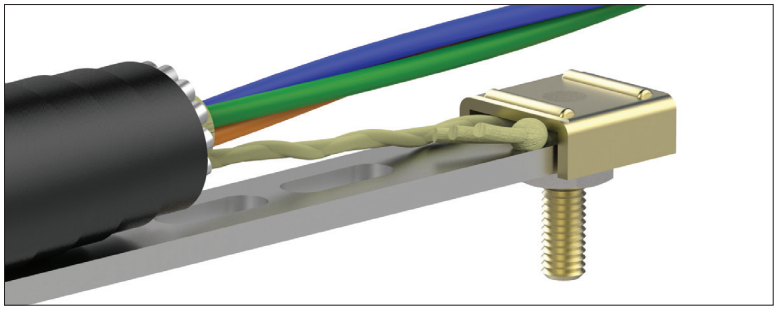
24 Align the cut ends of the outer strand layer with the back of the second slot as shown.



25 Wrap the yarn clockwise around the stud of the cap as shown.



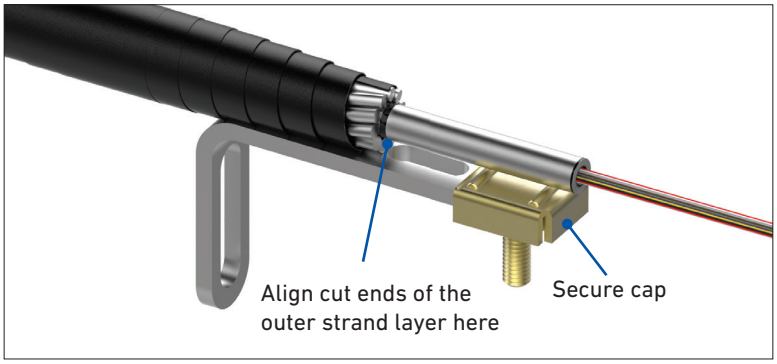
26 Tighten the nut of the cap to secure the braid.



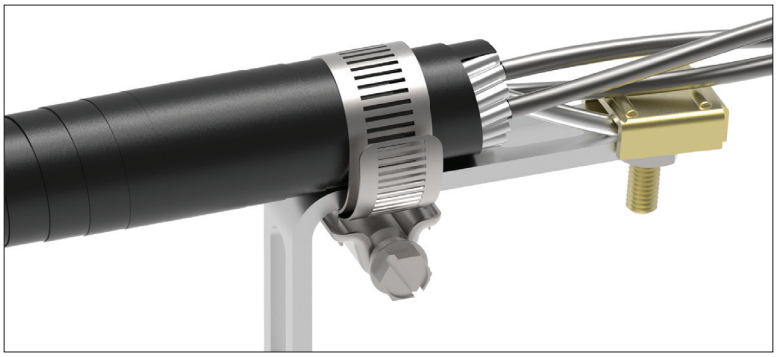
SECURING OPGW TO THE STRENGTH MEMBER BRACKET

27 Secure the cap of the strength member bracket and align the cut ends of the outer strand layer with the back of the slot of the bracket.

NOTE: For OPGW Types 2, 4a, and 4b, a strength member may not be present, no strength member retention is required.

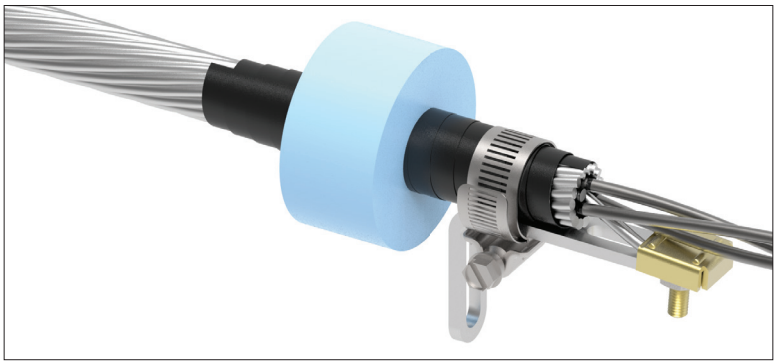


28 Secure all OPGW types to the strength member bracket with a hose clamp.

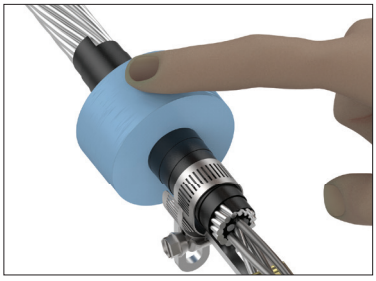


CABLE INSTALLATION

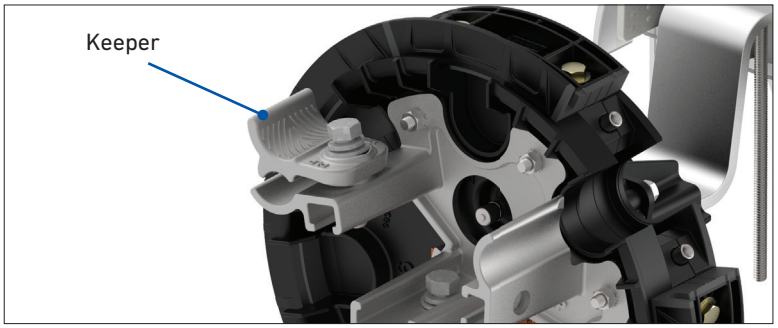
29 Slide the grommet over the taped area of the OPGW where the green sealant is located.



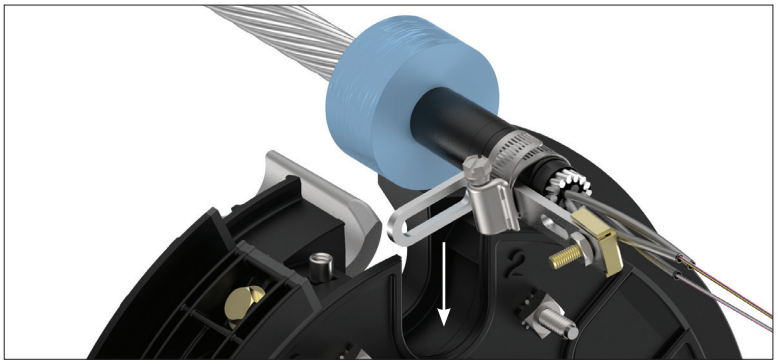
30 Lubricate the outer surface of the grommets. Spread the lubricant evenly around the outer surface.



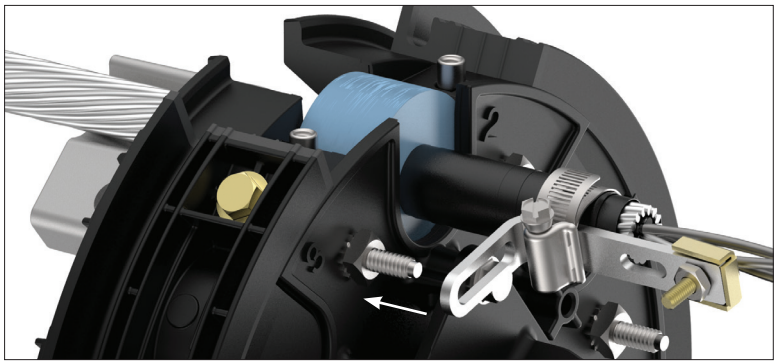
31 Loosen or remove the keepers from the CRB to allow the OPGW cables to be inserted into the end plate.



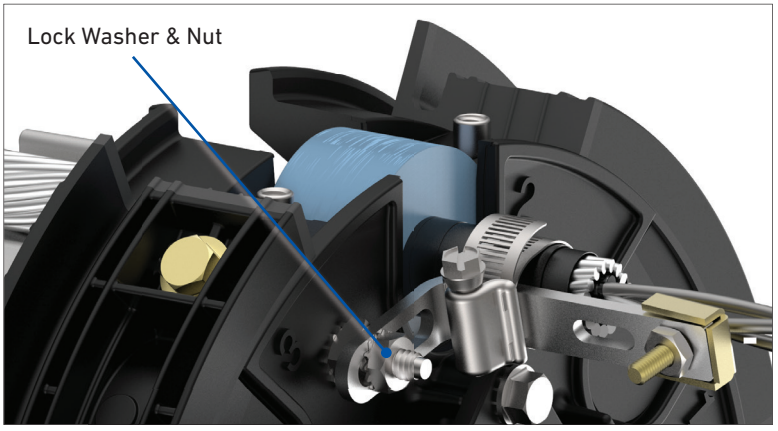
32 Position the grommets in the end plate slots.



33 Position the slot of the strength member bracket leg over the stud and pull back the OPGW cable.



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

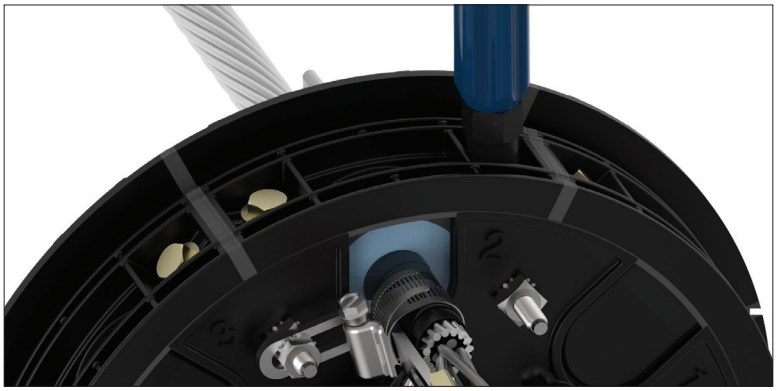


35 Install the end caps and secure with hex bolts.

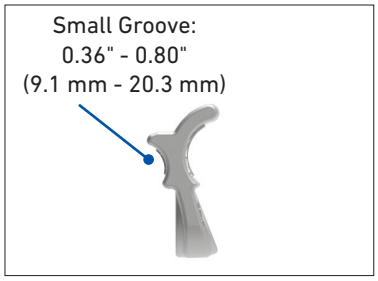
NOTES: Tighten bolts by hand evenly until end cap is fully seated (do **NOT** use power tools to tighten bolts).

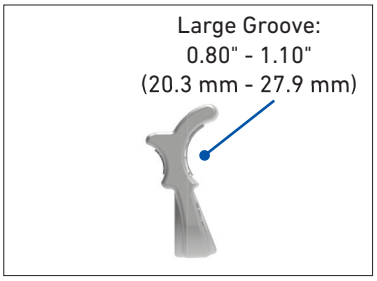
Tighten all unused end caps.

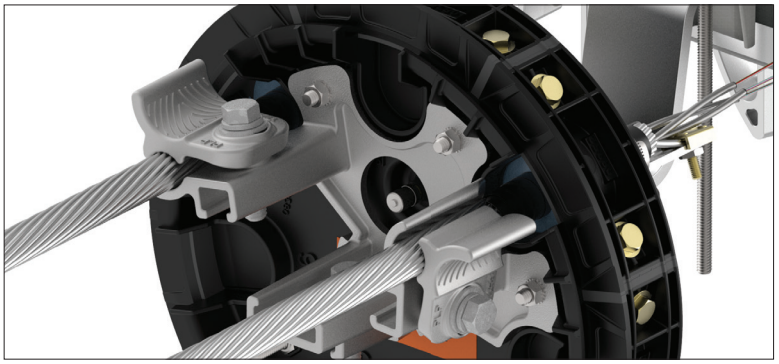
Tighten down the strength member bracket after the caps are tightened.



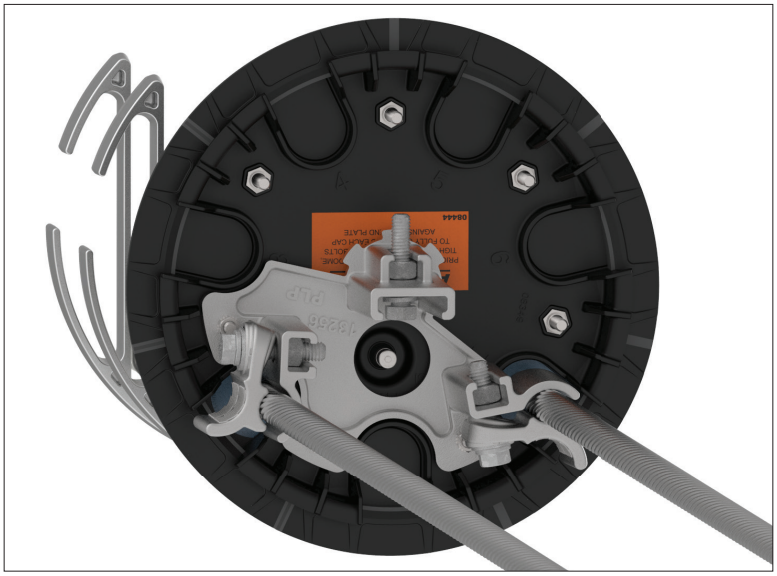
36 Determine which side of the keepers are needed to fit the OPGW cables properly (see image) and re-install the keepers on the CRB. Tighten the bolts of the keepers to a torque of 25 ft-lbs.







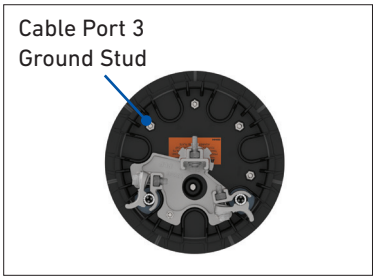
37 Complete end plate assembly.

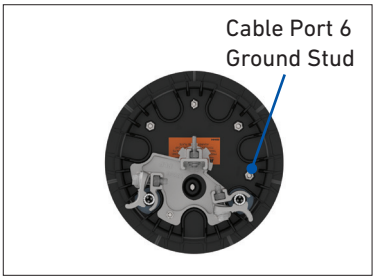


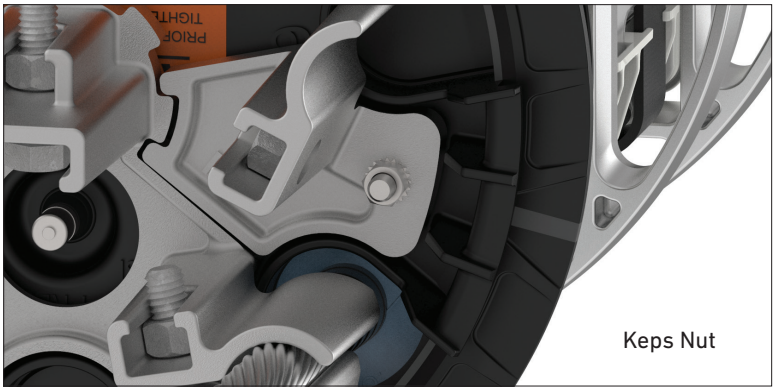
INSTALLING ADDITIONAL CABLES IN END PLATES

38 To install an additional OPGW cable in the end plate, a single port CRB must be installed to the end plate. Place the single port CRB on the ground stud for either cable port 3 or 6 and position the groove of the single port CRB around the tab of the main CRB attached to the end plate. Remove the keeper from the single port CRB and secure the single port CRB to the end plate with a keps nut.

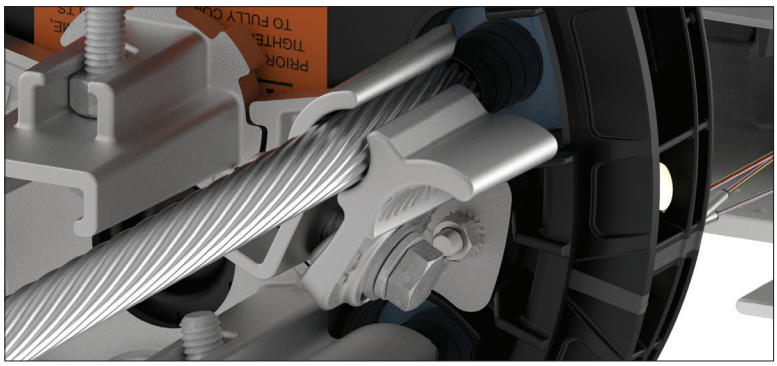
NOTE: Additional OPGW cables can be installed in cable ports 4 or 5 but it recommended to use cable ports 3 and 6 first for better transitioning of buffer tubes and/or transport tubes within the organizer.



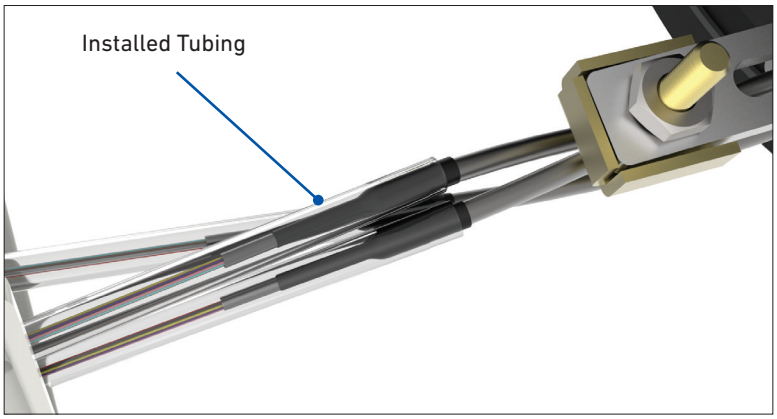




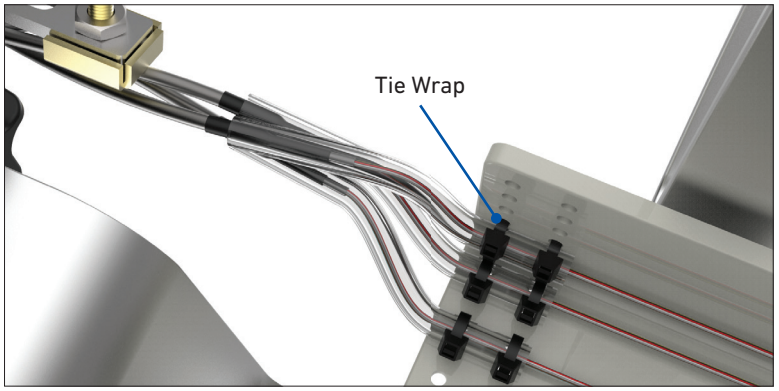
39 Repeat steps 29 - 36 (excluding step 31) to install an additional OPGW cable in the end plate.



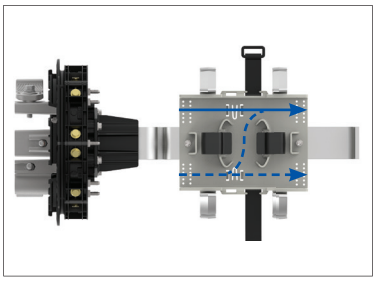
40 As noted in Step 11, Transition and Furcation tubing is installed according to PLP Application procedure **SP2963**. Clear outer tubing (COT) pushed onto the shrink tubing acts as a transition tube.



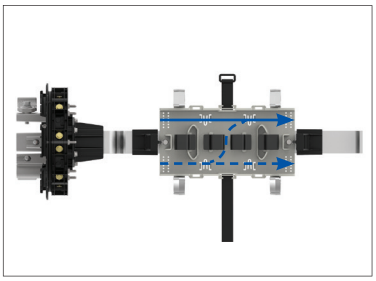
41 In applications using a Fiber Protection Tube (FPT), short transition tubing protects the bare fiber from the opened SS buffer tube into the area within the slack basket. Secure the transition tube to the slack basket with tie wraps. (shown).
For applications without FPT and unless fiber counts need to be broken out prior to the splice tray, a single transport tube may be routed directly from the opened stainless steel buffer tube and into the splice tray.



42 Route incoming fibers within the slack basket.

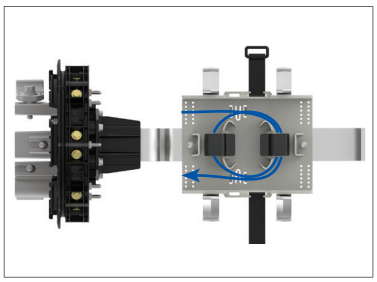


9.5" x 19" Dome Closure Organizer

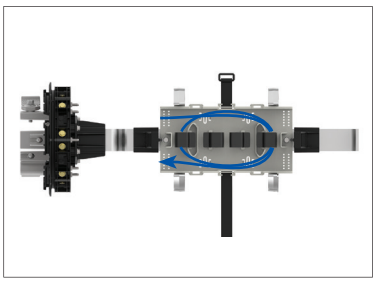


9.5" x 28" Dome Closure Organizer

43 Route and store fibers that may not be spliced under the organizer clips within the slack basket.

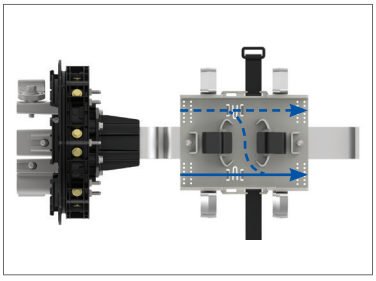


9.5" x 19" Dome Closure Organizer

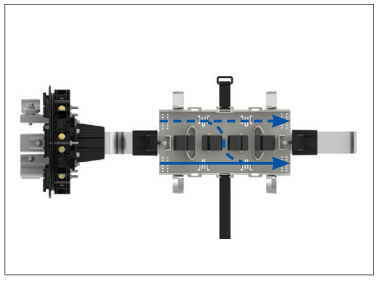


9.5" x 28" Dome Closure Organizer

44 Route outgoing fibers within the slack basket.

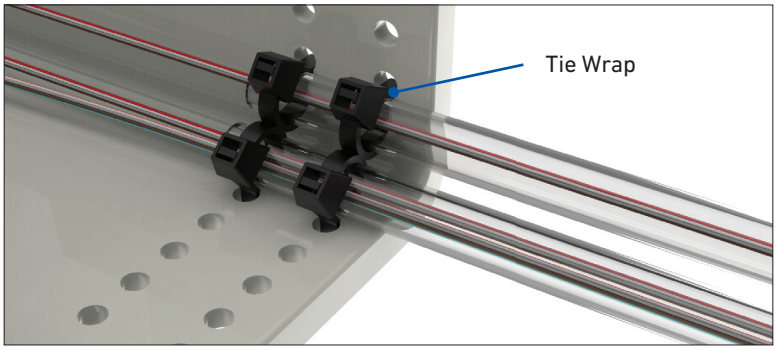


9.5" x 19" Dome Closure Organizer

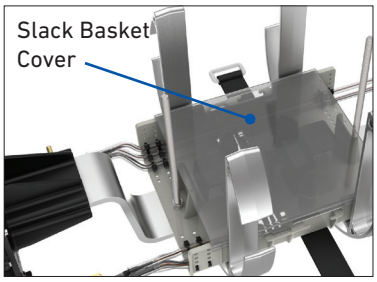


9.5" x 28" Dome Closure Organizer

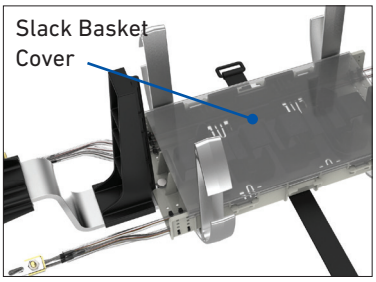
45 Transport tubes installed to protect the bare fiber routed from the slack basket to splice trays are secured with tie wraps.



46 Install the cover on the slack basket.



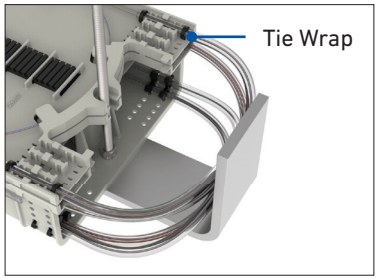
9.5" x 19" Dome Closure Organizer



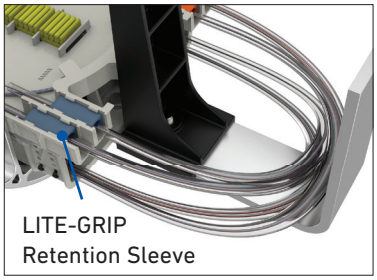
9.5" x 28" Dome Closure Organizer

47 Route the transport tubes to the splice tray(s) and secure.

NOTE: Wrap a piece of felt around the end of each transport tube in order to retain the tubes in the LITE-GRIP® retention sleeves.



9.5" x 19" Dome Closure Organizer

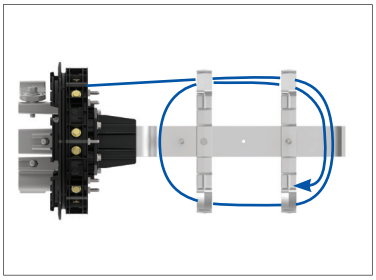


9.5" x 28" Dome Closure Organizer

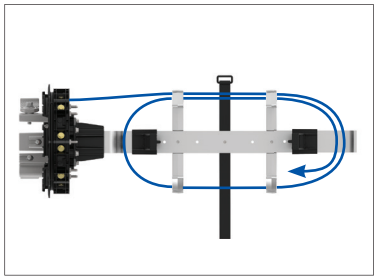
OPGW TYPES 2 AND 3 CABLE

TRANSITIONING AND ROUTING FIBERS

48 Route incoming buffer tubes within the side storage brackets.

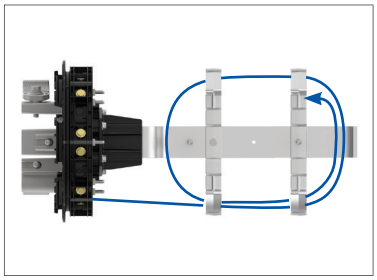


9.5" x 19" Dome Closure Organizer

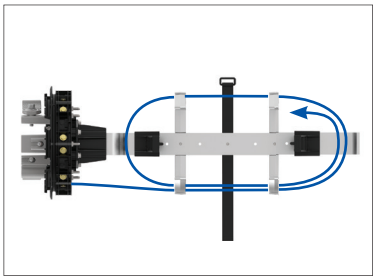


9.5" x 28" Dome Closure Organizer

49 Route outgoing fibers within the side storage brackets.

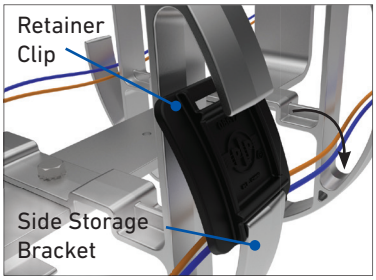


9.5" x 19" Dome Closure Organizer

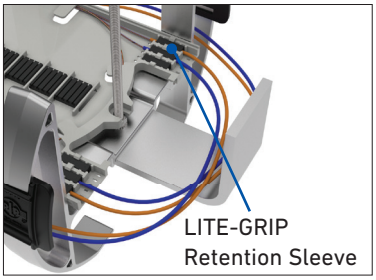


9.5" x 28" Dome Closure Organizer

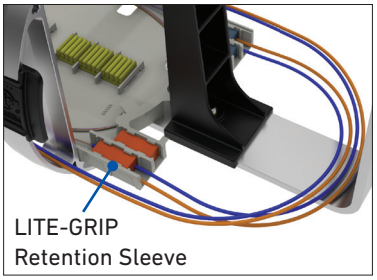
50 Secure the buffer tubes in the side storage brackets with the retainer clips. To install the retainer clip, position the bottom slot of the retainer clip onto the bottom portion of the side storage bracket. Tilt the retainer clip forward until the top portion of the side storage bracket snaps into the top slot of the retainer clip.



51 Route the buffer tubes to the splice tray(s) and secure.



9.5" x 19" Dome Closure Organizer

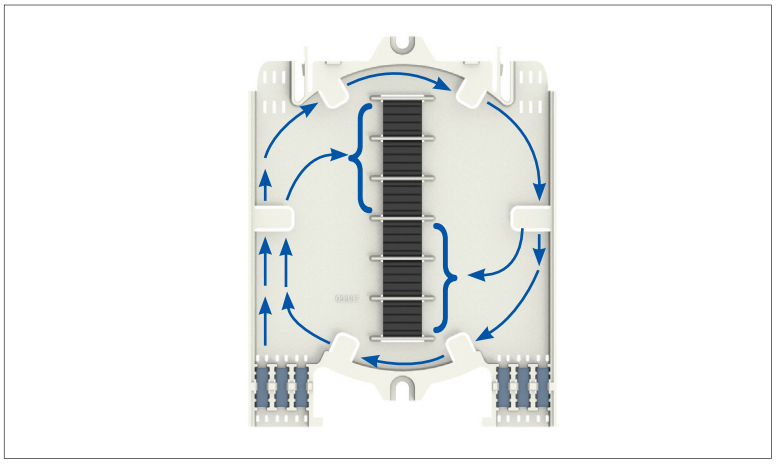


9.5" x 28" Dome Closure Organizer

9.5" x 19" DOME CLOSURE

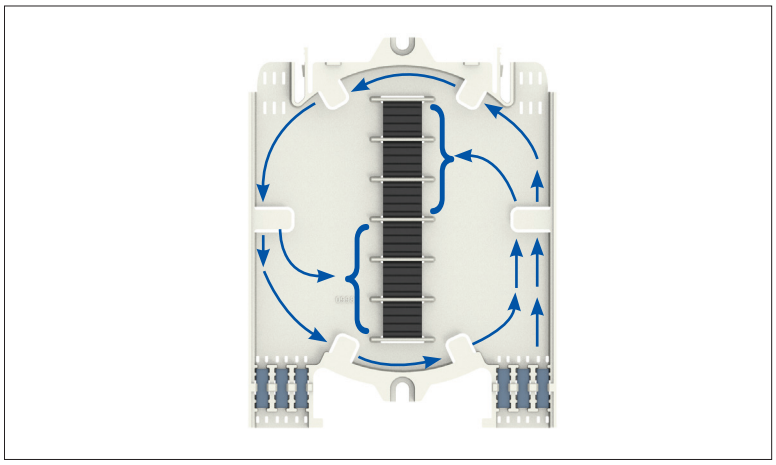
SPLICE TRAY MANAGEMENT

52 Route incoming fibers in the single fusion splice tray.



Top: Splices 1 - 12
Bottom: Splices 13 - 14

53 Route outgoing fibers in the single fusion splice tray.

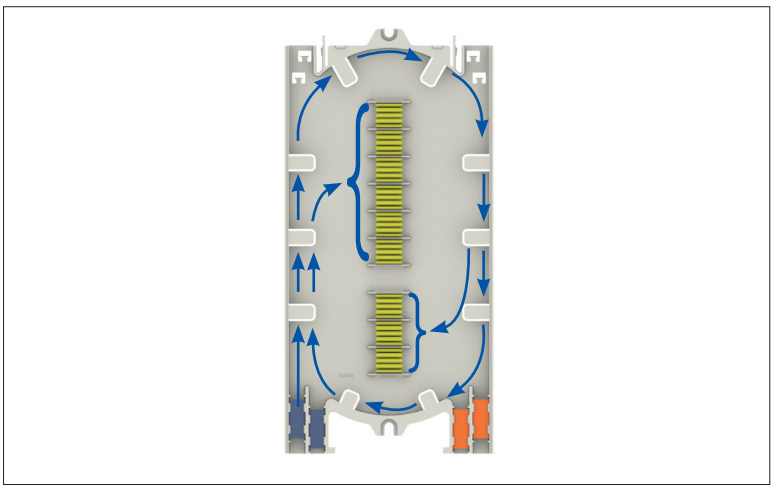


Top: Splices 1 - 12
Bottom: Splices 13 - 14

9.5" x 28" DOME CLOSURE

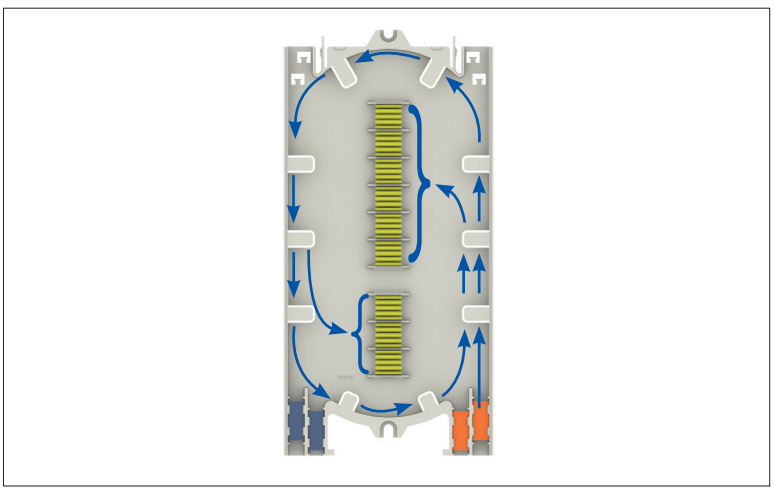
SPLICE TRAY MANAGEMENT

54 Route incoming fibers in the single fusion splice tray.



Top: Splices 1 - 24
Bottom: Splices 25 - 36

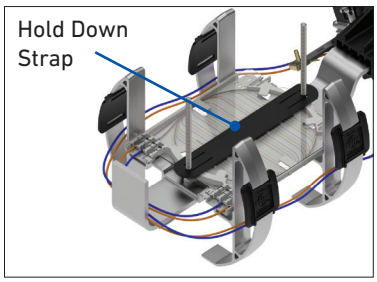
55 Route incoming fibers in the single fusion splice tray.



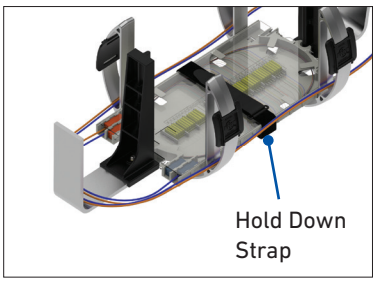
Top: Splices 1 - 24
Bottom: Splices 25 - 36

56 Splice incoming fibers to outgoing fibers per your accepted company practices.

57 Secure the splice tray(s) with the hold down strap.



9.5" x 19" Dome Closure Organizer

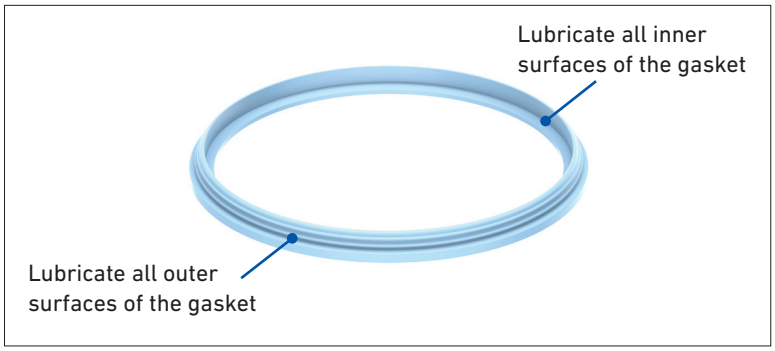


9.5" x 28" Dome Closure Organizer

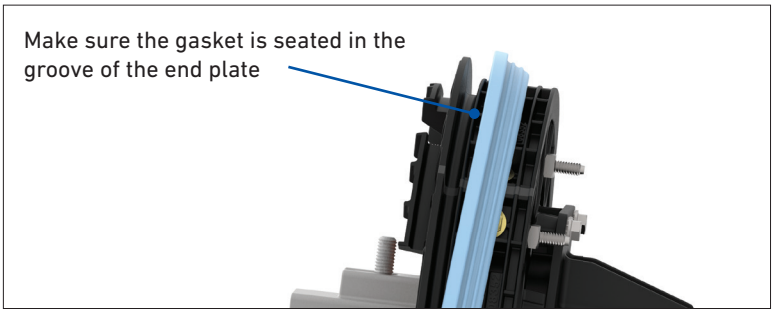
DOME PREPARATION & INSTALLATION

58 Re-tighten all end cap bolts (Step 35) to assure that the end caps are fully seated. When using a can wrench or nut driver, the installed torque is 35 to 40 in-lb.

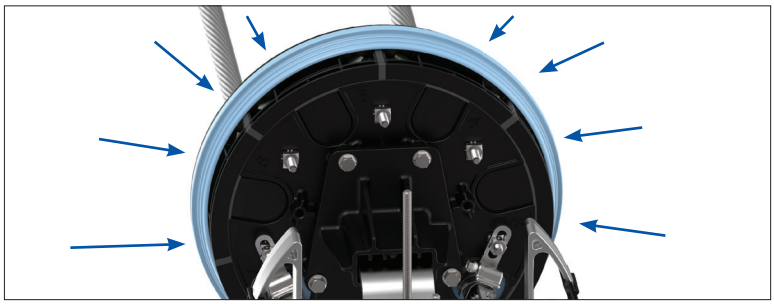
59 Lubricate all surfaces around gasket with silicone lubricant to assure easy assembly and closure re-entry.



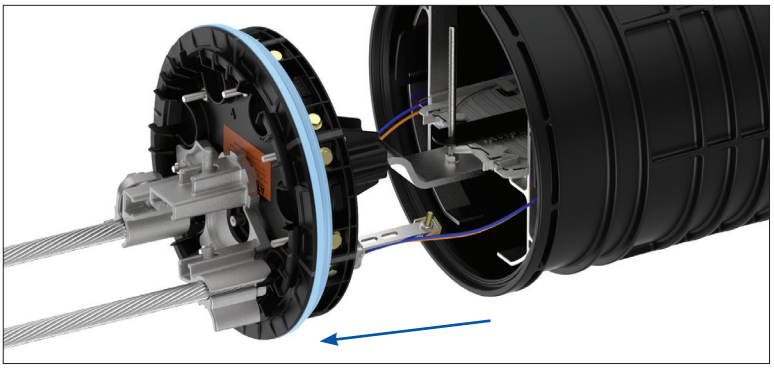
60 Slide the end plate gasket onto the end plate and press into the groove.



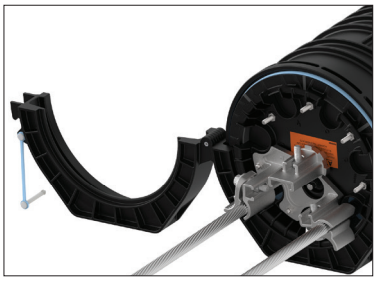
61 Work the gasket into the groove.

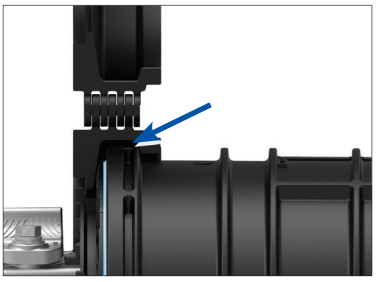


62 Position the dome over the end plate.



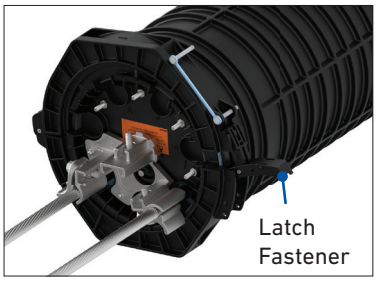
63 Install the dome collar.

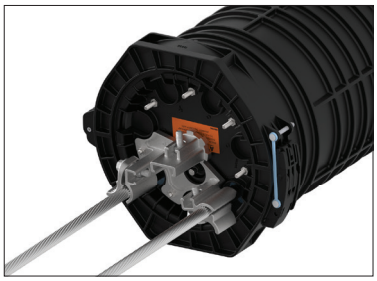




Make sure that the lip of the dome is captured within the collar before securing the latch.

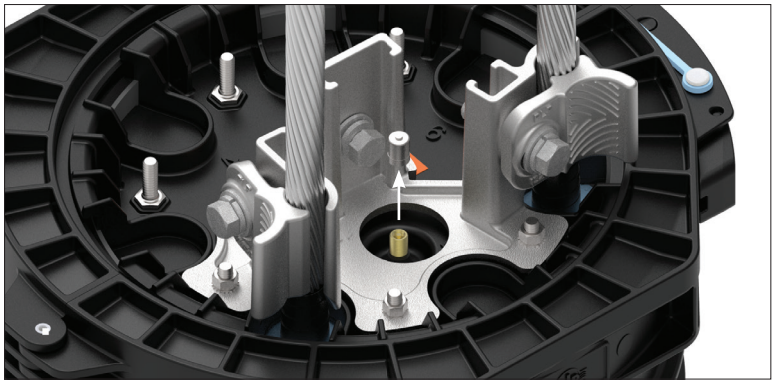
64 Fasten the latch and lock the collar with the pin.



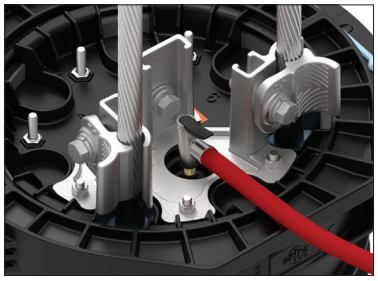


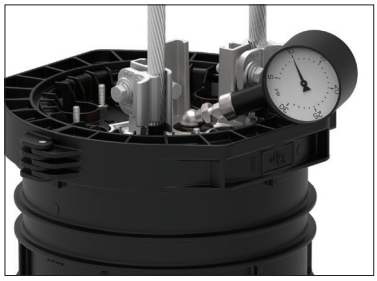
FLASH TEST PROCEDURE

65 Remove the cap from the air valve of the end plate.

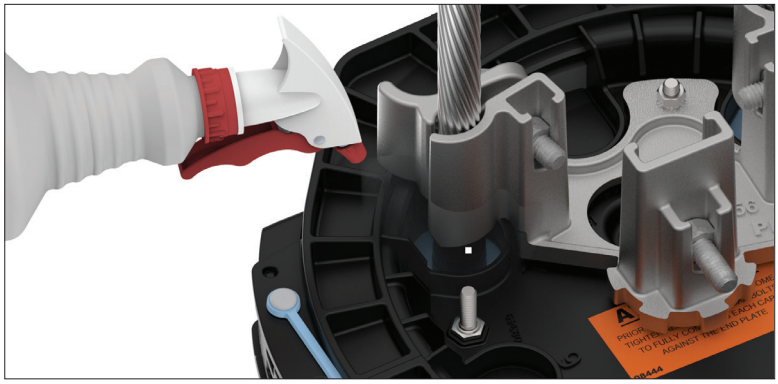


66 Pressurize closure up to a max of 10 psi.





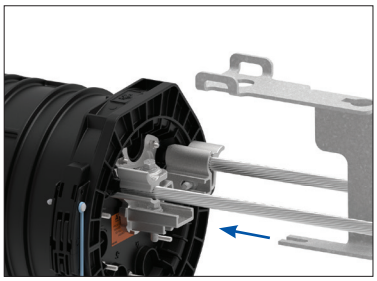
67 Spray all the sealing surfaces of the dome end plate with a soap/water solution to determine if the end plate has been assembled properly.

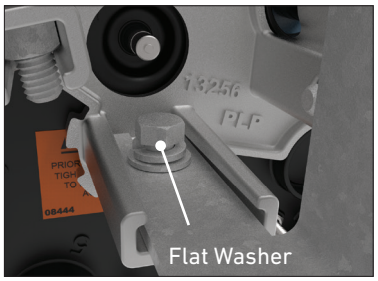


68 Release the pressure in the closure using the bump on the top of the air valve cap.

ADAPTER BRACKET INSTALLATION

69 Loosen the middle bolt of the CRB and insert the adapter bracket into the slot of the CRB. Make sure that the adapter bracket is positioned under the flat washer of the bolt assembly when inserting it into the slot.





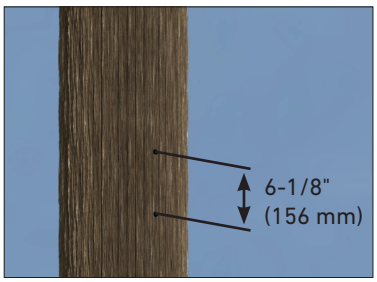
70 Secure the adapter bracket within the CRB by tightening the middle bolt with a socket wrench and 9/16" socket until the lock washer is flat.

DIRECT POLE MOUNT INSTALLATION

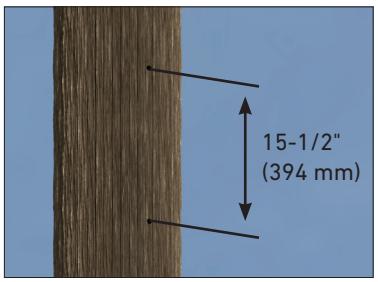
71 Drill two holes through the pole to accept a 1/2" double-arming bolt or through bolt. Space the holes at the distance shown depending on what size closure is being mounted.

NOTE: The Dome Halo Bracket for 9.5" COYOTE® Dome Closures with FIBERLIGN® CRB System **(Catalog Number: 80813941)** must be ordered to complete the direct pole mount installation.

Double-arming bolts and through bolts are not provided with either the dome closure kit or the dome halo bracket.

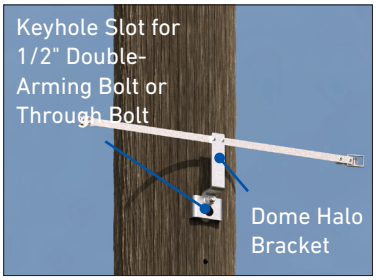


9.5" x 19" Dome Closure

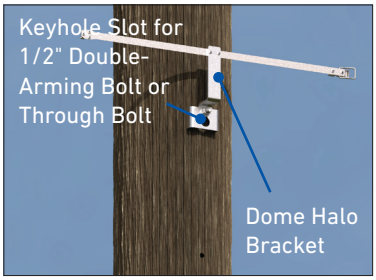


9.5" x 28" Dome Closure

72 Secure the dome halo bracket to the pole at the top hole location with either a 1/2" double-arming bolt or through bolt and fasteners as shown.

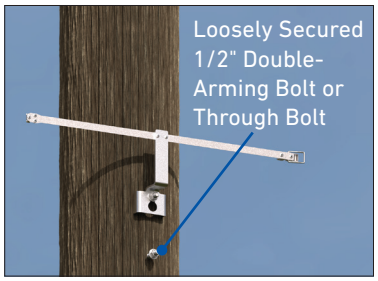


9.5" x 19" Dome Closure



9.5" x 28" Dome Closure

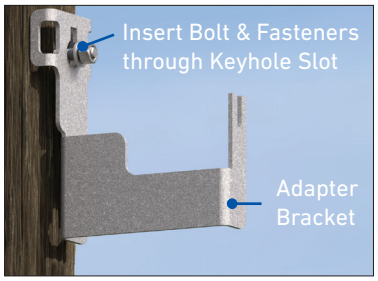
73 Place either a 1/2" double-arming bolt or through bolt in the bottom hole location and loosely secure it in the pole with fasteners as shown.



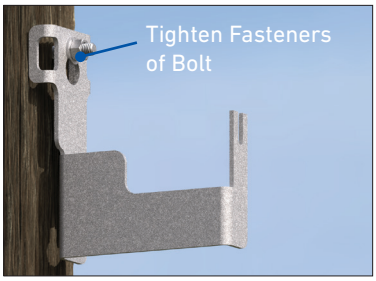
9.5" x 19" Dome Closure

9.5" x 28" Dome Closure

74 Insert the loosely secured bolt at the bottom hole location through the keyhole slot of the adapter bracket. Tighten the fasteners of the bolt to secure the adapter bracket to the pole.



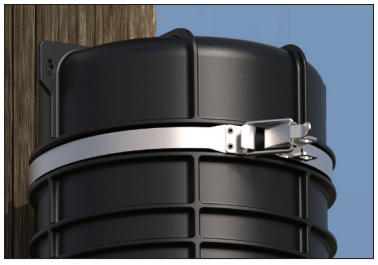
9.5" x 19" Dome Closure



9.5" x 28" Dome Closure

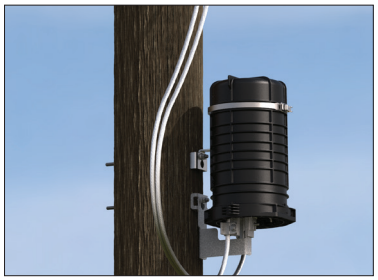
75 Slide the closure onto the adapter bracket and secure the closure to adapter bracket as shown in steps 73 and 74.

76 Wrap the banding of the dome halo bracket within the groove of the dome and fasten the latch to secure the banding.

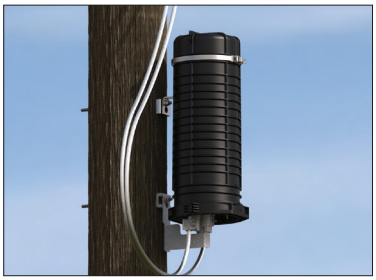


77 The cable minimum bend radius must be maintained as it is trained downward past the dome and back up into the end plate. This creates a drip loop that is common practice for vertically mounted splice closures.

Complete Direct Mount Installation shown.



9.5" x 19" Dome Closure



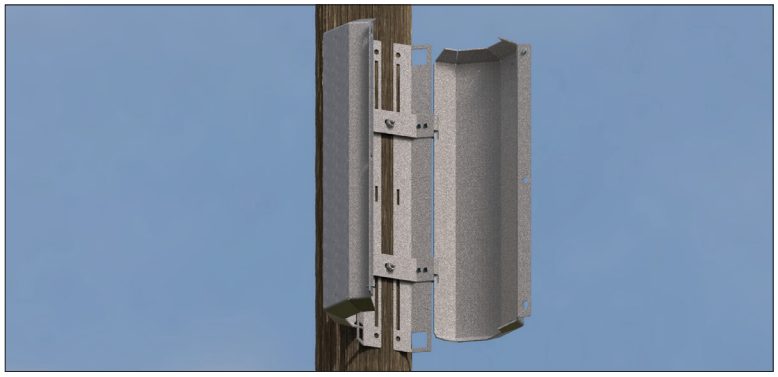
9.5" x 28" Dome Closure

MOUNTING WITHIN THE COYOTE® DEFENDER

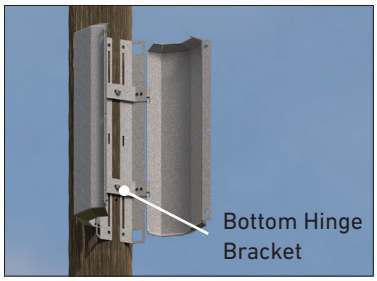
NOTES: The Dome Halo Bracket for 9.5" COYOTE® Dome Closures with FIBERLIGN® CRB System **(Catalog Number: 80813941)** must be ordered to complete the direct pole mount installation.

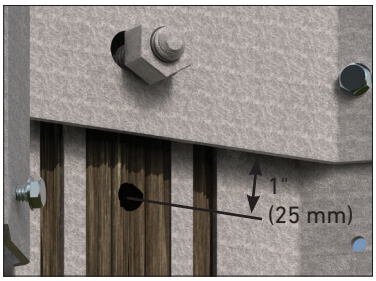
Double-arming bolts and through bolts, fasteners, and banding are not provided with the COYOTE Defender.

78 Mount the COYOTE Defender to the pole according to the instructions provided with it **(SP2906)**.

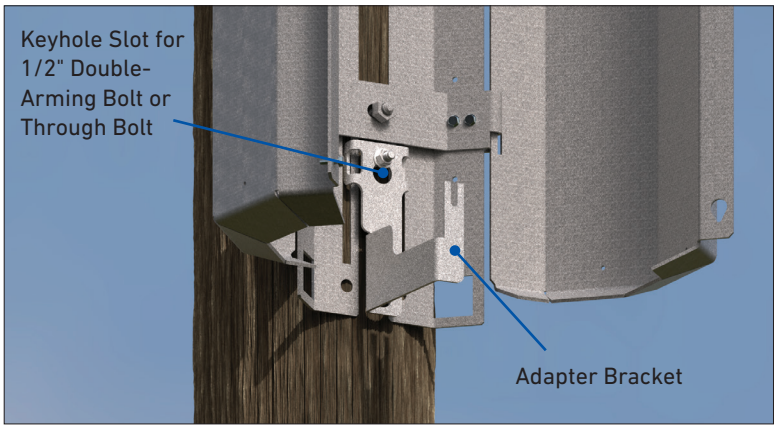


79 Drill a hole through the pole to accept a 1/2" double-arming bolt or through bolt at a distance of 1" (25 mm) from bottom edge of the bottom hinge bracket.

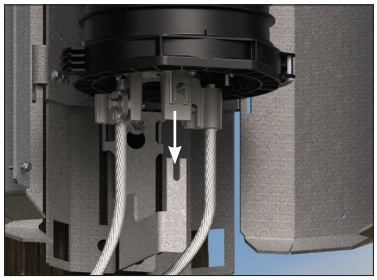


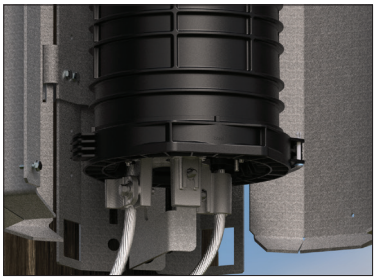


80 Secure the adapter bracket to the pole with either a 1/2" double-arming bolt or through bolt and fasteners as shown.

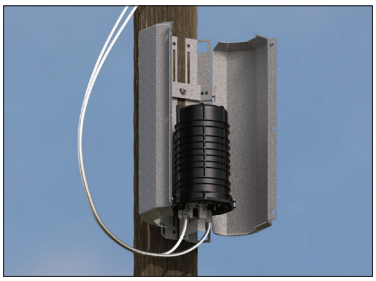


81 Slide the closure onto the adapter bracket and secure the closure to adapter bracket as shown in Steps 73 and 74.

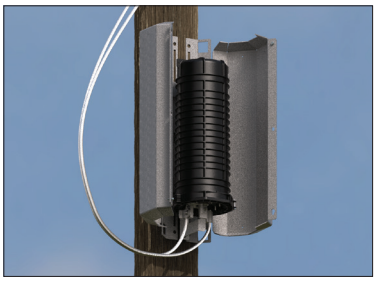




82 Completed Mounting Installation within the COYOTE® Defender shown.



9.5" x 19" Dome Closure



9.5" x 28" Dome Closure

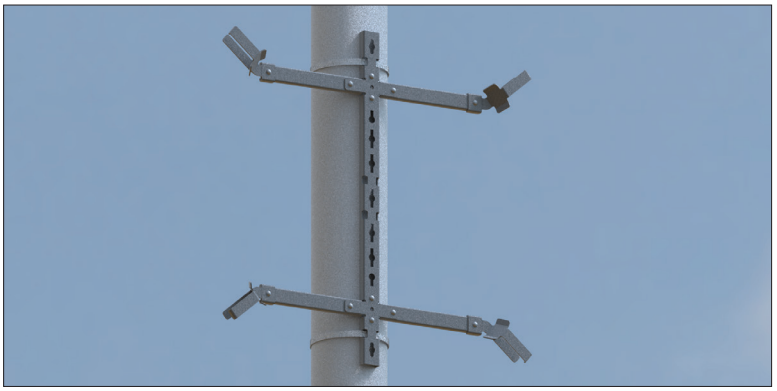
MOUNTING TO THE 60" FIXED CROSSARM VERTICAL SLACKLOOP® SYSTEM

NOTE: The 60" Fixed Crossarm Vertical SLACKLOOP System **(Catalog Number: 80061195)** must be ordered to complete this mounting installation.

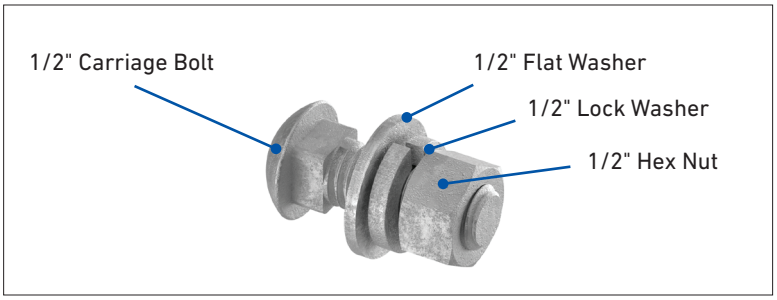
The Dome Halo Bracket for 9.5" COYOTE Dome Closures with FIBERLIGN® CRB System **(Catalog Number: 80813941)** must be ordered to complete this mounting installation for COYOTE 9.5" x 28" Dome Closures.

Double-arming bolts, through bolts, and banding are not provided with the dome closure kit, Vertical SLACKLOOP System, or dome halo bracket.

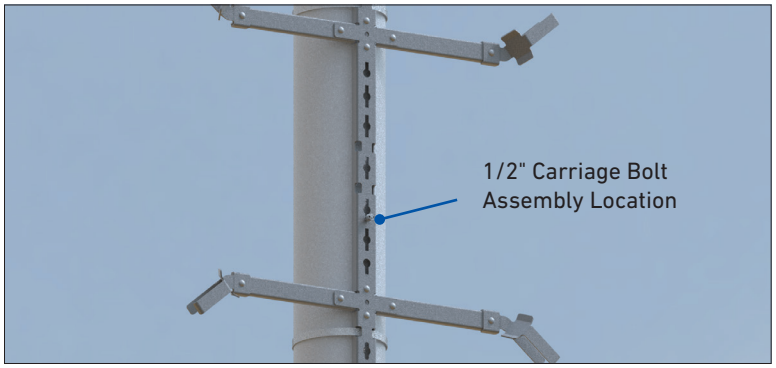
83 Mount the 60" Fixed Crossarm Vertical SLACKLOOP System to the pole according to the instructions provided with it **(SP3233)**.



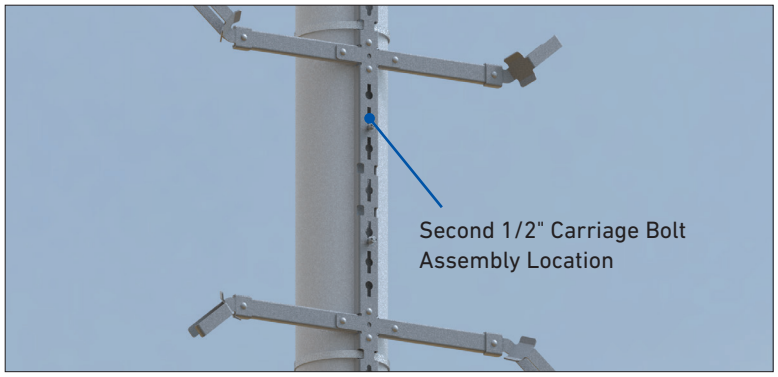
84 Loosely install the flat washer, lock washer, and hex nut onto the 1/2" carriage bolt that is included with the 60" Fixed Crossarm Vertical SLACKLOOP System.



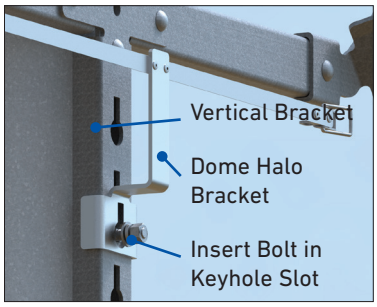
85 Place the 1/2" carriage bolt assembly in the vertical bracket at the slot location shown.

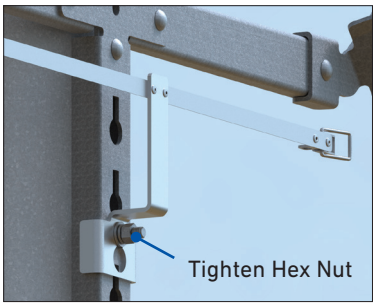


86 For COYOTE® 9.5" x 28" Dome Closure mounting installations, place a second 1/2" carriage bolt assembly in the vertical bracket at the slot location shown.

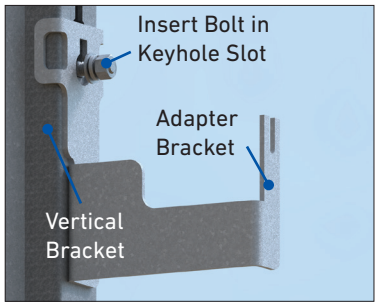


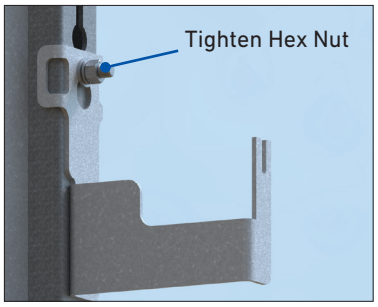
87 For COYOTE 9.5" x 28" Dome Closure mounting installations, insert the 1/2" carriage bolt assembly through the keyhole slot of the dome halo bracket and seat the dome halo bracket between the vertical bracket and the flat washer. Secure the bracket by tightening the hex nut of the carriage bolt assembly until the lock washer is flat.



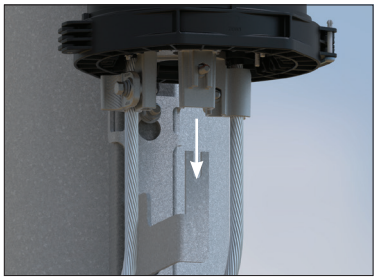


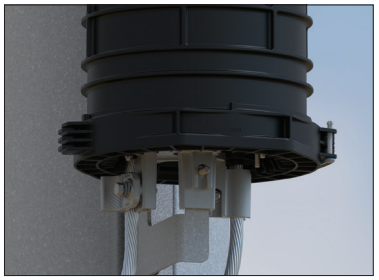
88 Insert the 1/2" carriage bolt assembly through the keyhole slot of the adapter bracket and seat the adapter bracket between the vertical bracket and the flat washer. Secure the bracket by tightening the hex nut of the carriage bolt assembly until the lock washer is flat.





89 Slide the closure onto the adapter bracket and secure the closure to adapter bracket as shown in Steps 75 and 76.

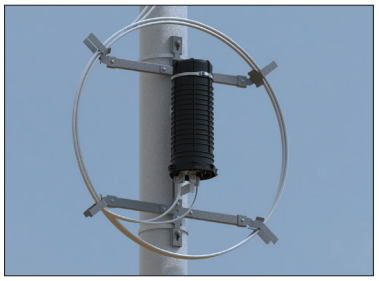




90 For COYOTE® 9.5" x 28" Dome Closure mounting installations, wrap the banding of the dome halo bracket within the groove of the dome and fasten the latch to secure the banding.

91 Completed Mounting Installation to the 60" Vertical SLACKLOOP® System.

9.5" x 19" Dome Closure



9.5" x 28" Dome Closure

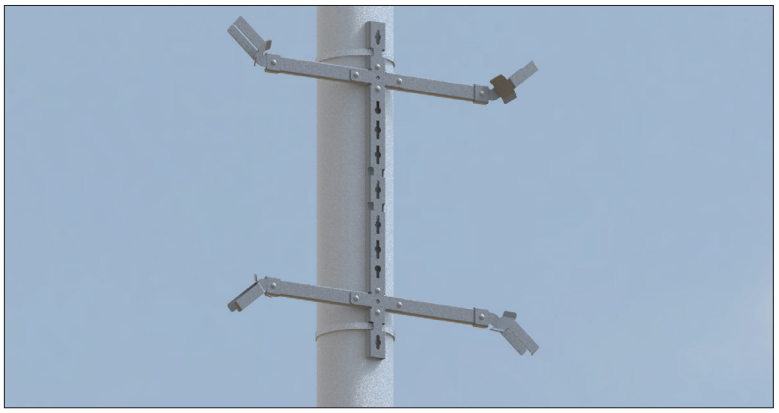
MOUNTING WITHIN THE COYOTE DEFENDER ATTACHED TO THE 60" FIXED CROSSARM VERTICAL SLACKLOOP SYSTEM

NOTES: The COYOTE Defender **(Catalog Number: 8003512)** must be ordered to complete this mounting installation.

The 60" Fixed Crossarm Vertical SLACKLOOP System **(Catalog Number: 80061195)** must be ordered to complete this mounting installation.

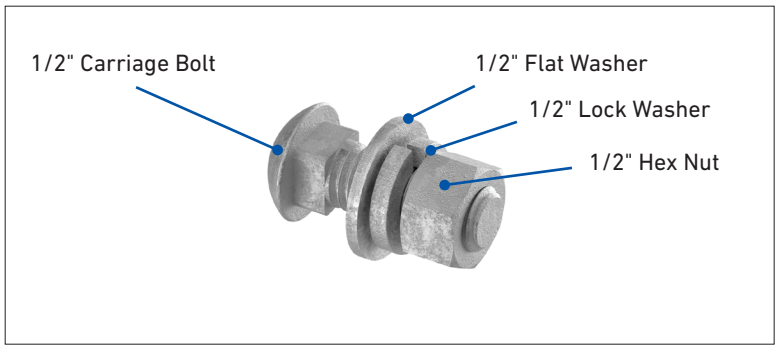
Double-arming bolts, through bolts, fasteners, and banding are not provided with the dome closure kit, COYOTE Defender, or the Vertical SLACKLOOP System.

92 Mount the 60" Fixed Crossarm Vertical SLACKLOOP System to the pole according to the instructions provided with it **(SP3233)**.

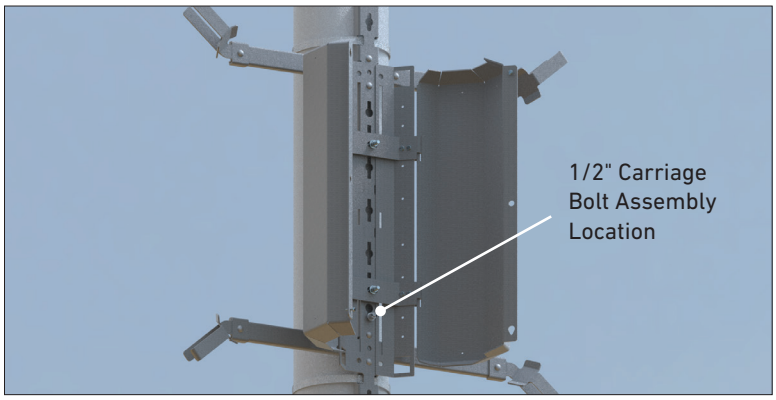


93 Mount the COYOTE® Defender to the 60" Fixed Crossarm Vertical SLACKLOOP System according to the instructions provided with the COYOTE Defender **(SP3233)**.

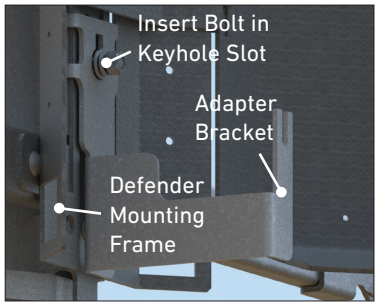
94 Loosely install the flat washer, lock washer, and hex nut onto the 1/2" carriage bolt that is included with the 60" Fixed Crossarm Vertical SLACKLOOP® System.

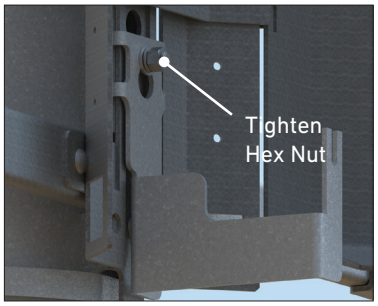


95 Place the 1/2" carriage bolt assembly in the vertical bracket at the slot location shown.

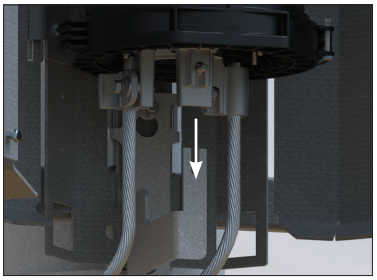


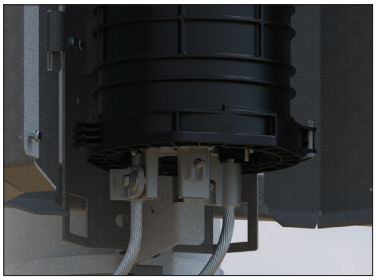
96 Insert the 1/2" carriage bolt assembly through the keyhole slot of the adapter bracket of the closure and seat the adapter bracket between the mounting frame of the COYOTE Defender and the flat washer. Secure the bracket by tightening the hex nut of the carriage bolt assembly until the lock washer is flat.



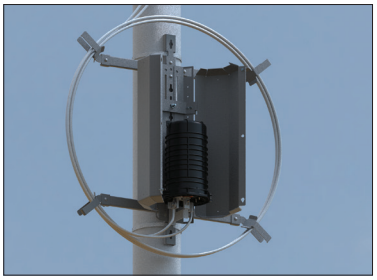


97 Slide the closure onto the adapter bracket and secure the closure to adapter bracket as shown in Steps 72 and 73.

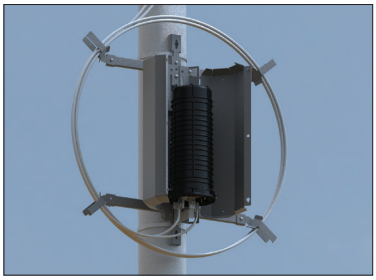




98 Completed Mounting Installation within the COYOTE Defender Attached to the 60" Vertical SLACKLOOP® System.



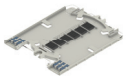
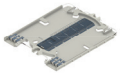
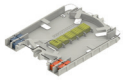
9.5" x 19" Dome Closure



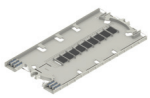
9.5" x 28" Dome Closure

APPENDIX

Splice Tray Capacities for COYOTE Dome Closure 9.5" x 19" with FIBERLIGN® CRB System

PLP Catalog Number	Description	Image	Splice Tray	Max Trays per Closure	Closure Max Splice Capacity
80809958	Short Low Profile LITE-GRIP Splice Tray (24 count)		Single Fusion	Plastic Buffer Tubes - 12 Stainless Steel Buffer Tubes - 12	Plastic Buffer Tubes - 288 Stainless Steel Buffer Tubes - 288
80813152	Short Low Profile LITE-GRIP Splice Tray (36 count)		Single Fusion	Plastic Buffer Tubes - 12 Stainless Steel Buffer Tubes - 12	Plastic Buffer Tubes - 432 Stainless Steel Buffer Tubes - 432
80808945	Short Deep Profile LITE-GRIP Splice Tray (40 count)		Single Fusion	Plastic Buffer Tubes - 6 Stainless Steel Buffer Tubes - 6	Plastic Buffer Tubes - 240 Stainless Steel Buffer Tubes - 240

Splice Tray Capacities for COYOTE Dome Closure 9.5" x 28" with FIBERLIGN CRB System

PLP Catalog Number	Description	Image	Splice Tray	Max Trays per Closure	Closure Max Splice Capacity
80810086	Long Standard Profile LITE-GRIP Splice Tray (36 count)		Single Fusion	Plastic Buffer Tubes - 10 Stainless Steel Buffer Tubes - 10	Plastic Buffer Tubes - 360 Stainless Steel Buffer Tubes - 360
LGSTS72	Long Deep Profile LITE-GRIP Splice Tray (72 count)		Single Fusion	Plastic Buffer Tubes - 6 Stainless Steel Buffer Tubes - 6	Plastic Buffer Tubes - 432 Stainless Steel Buffer Tubes - 432

APPENDIX

Closure Kits for COYOTE® Dome Closures 9.5" with FIBERLIGN® CRB System for OPGW

PLP Catalog Number	Description	OPGW Construction Types
COYW919P0001	COYOTE Dome Closure 9.5" x 19" for OPGW with Plastic Buffer Tubes	(1) Catalog Number: 80809958 Splice Tray, (2) 12 Pack of 40 mm Single Fusion Splice Sleeves, (1) Mounting Adapter Bracket, (1) Small Parts Bag with OPGW Sealant Kit, (2) 1-Hole Grommets for 0.30" – 0.43" Cable Diameter Range, (2) 1-Hole Grommets for 0.40" – 0.60" Cable Diameter Range, & (2) 1-Hole Grommets for 0.60" – 0.85" Cable Diameter Range
COYW919S0001	COYOTE Dome Closure 9.5" x 19" for OPGW with Stainless Steel Buffer Tubes	(1) Catalog Number: 80809958 Splice Tray, (2) 12 Pack of 40 mm Single Fusion Splice Sleeves, (1) Mounting Adapter Bracket, (1) Small Parts Bag with OPGW Sealant Kit, (2) 1-Hole Grommets for 0.30" – 0.43" Cable Diameter Range, (2) 1-Hole Grommets for 0.40" – 0.60" Cable Diameter Range, (2) 1-Hole Grommets for 0.60" – 0.85" Cable Diameter Range, (3) Transition Furcation Kits, & (2) Transport Tube Kits
COYW928P0001	COYOTE Dome Closure 9.5" x 28" for OPGW with Plastic Buffer Tubes	(1) Catalog Number: LGSTS72 Splice Tray, (2) 36 Pack of 40 mm Single Fusion Splice Sleeves, (1) Mounting Adapter Bracket, (1) Small Parts Bag with OPGW Sealant Kit, (2) 1-Hole Grommets for 0.30" – 0.43" Cable Diameter Range, (2) 1-Hole Grommets for 0.40" – 0.60" Cable Diameter Range, & (2) 1-Hole Grommets for 0.60" – 0.85" Cable Diameter Range
COYW928S001	COYOTE Dome Closure 9.5" x 28" for OPGW with Stainless Steel Buffer Tubes	(1) Catalog Number: LGSTS72 Splice Tray, (2) 36 Pack of 40 mm Single Fusion Splice Sleeves, (1) Mounting Adapter Bracket, (1) Small Parts Bag with OPGW Sealant Kit, (2) 1-Hole Grommets for 0.30" – 0.43" Cable Diameter Range, (2) 1-Hole Grommets for 0.40" – 0.60" Cable Diameter Range, (2) 1-Hole Grommets for 0.60" – 0.85" Cable Diameter Range, (3) Transition Furcation Kits, & (2) Transport Tube Kits

Accessory Kits for COYOTE 9.5" Dome Closures with FIBERLIGN CRB System for OPGW

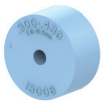
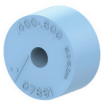
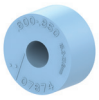
80813862	Small Parts Bag for 9.5" Dome Closures with OPGW CRB; includes Green Sealant, 3 long and 3 short Strength Member Brackets
800011563	Furcation Kit - Stainless Steel Buffer Tubes 0.063" - 0.098" OD
800011382	Furcation Kit - Stainless Steel Buffer Tubes 0.102" - 0.110" OD
800011381	Furcation Kit - Stainless Steel Buffer Tubes 0.118" - 0.126" OD
800011212	Furcation Kit - Stainless Steel Buffer Tubes 0.133" - 0.154" OD
80813629	Interlocking Single Port CRB for OPGW - Includes (1) "L" Bracket for Interior Cable Restraint
8003509	Heat Shrink Splice Protector Kit - Includes (12) 60 mm Single Fusion
80811010	Heat Shrink Splice Protector Kit - Includes (36) 60 mm Single Fusion
8003280	Transition Tube Kit - Includes (1) 0.135" x 24.5" UD (3.4 mm x 622 mm), (1) 0.170" x 24.5" ID (64 mm x 22 mm), (1) 0.25" x 24.5" ID (6 mm x 622 mm) Long Transition Tubes
80805293	Transport Tube Kit - Includes (6) 0.135" x 34" ID (3.4 mm x 863 mm) Long Transport Tubes

Mounting Brackets for COYOTE 9.5" Dome Closures with FIBERLIGN CRB System for OPGW

80813941	Dome Halo Bracket for 9.5" COYOTE Dome Closures with the FIBERLIGN CRB System
80061195	60" Fixed Crossarm Vertical SLACKLOOP® Cable Storage System
8003512	COYOTE Defender for 9.5" COYOTE Dome Closures
LTC1	Lattice Tower Clamp Kit with 6" Long Bolt

APPENDIX

Grommet Chart for COYOTE® 9.5" Dome Closures with FIBERLIGN® CRB Sysem for OPGW

PLP Catalog Number	Cable Range in (mm)	Description	Image	Slitting Location
8004151	0.30" - 0.43" (7.6 - 10.9 mm)	1-entry grommet		
8003691	0.40" - 0.60" (10.2 - 15.2 mm)	1-entry grommet		
8003692	0.60" - 0.85" (15.2 - 21.6 mm)	1-entry grommet		
8003693	0.85" - 1.00" (21.6 - 25.4 mm)	1-entry grommet		
8003694	1.00" - 1.25" (25.4 - 31.8 mm)	1-entry grommet		
8003663	0.42" - 0.60" (10.7 - 15.2 mm)	2-entry grommet		
8003664	0.30" - 0.43" (7.6 - 10.9 mm)	4-entry grommet		
8004065	0.250" - 0.312" (6.4 - 7.9 mm)	4-entry grommet		

NOTE: For most OPGW or end to end splicing applications slitting can be avoided by sliding on the grommet prior to opening the cable and cable preparation.

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