



# INSTALLATION INSTRUCTIONS

*AFL Apex® X-2 Sealed Splice Closure*



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## PACKAGE CONTENTS

Apex Closure  
Cable Attachment Unit Kits - as ordered  
Splice Trays installed in Apex - as ordered  
Shield Bond Kit included in CAU Kit

Installation Kit  
3/8" Velcro®  
Installation Instructions  
Grease Packet

## REQUIRED TOOLS

216 can wrench  
Tape measure  
Tie wrap or Velcro for basket retention  
Wire cutter for strength member  
Splicer's scissors  
Splice equipment and sleeves  
Cable entry tools  
Cable stripper  
Cable splicer knife  
9" Lineman's pliers

### Optional Consumables

AFL Foam Retention Kit (pack of 25 - AFL no. HW000406)  
Mesh transition tube, if desired (AFL no. AX-KIT-TUBE-014-XX\*)  
Silicone spiral wrap (AFL no. FC001657)  
Advanced Fiber Retention System Kits

\*Replace "XX" with any of the following for colors per the TIA-598 color code:  
BL, OR, GN, BR, GY, WH, RD, BK, YL, VI, NP or PP

## ADDITIONAL KITS

Kits and other accessories are available for the Apex X-2 Closure.  
[See Apex X-2 specification sheet](#) for ordering information.

For complete installation instructions and videos  
on the Apex X-2, scan the QR code below.



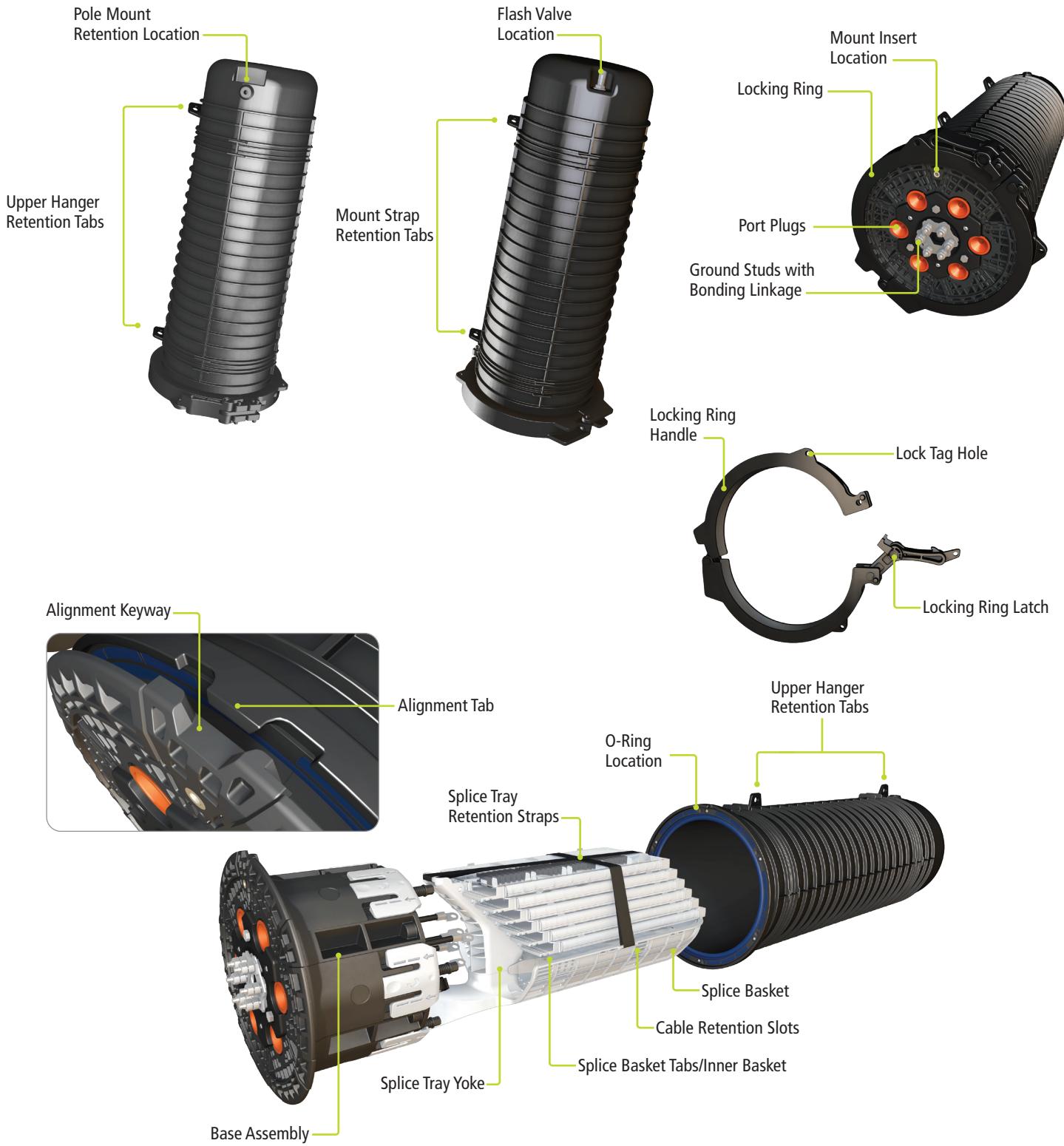
Apex X-2 web page

Scan this QR code for AFL's Apex Classroom Video Series.

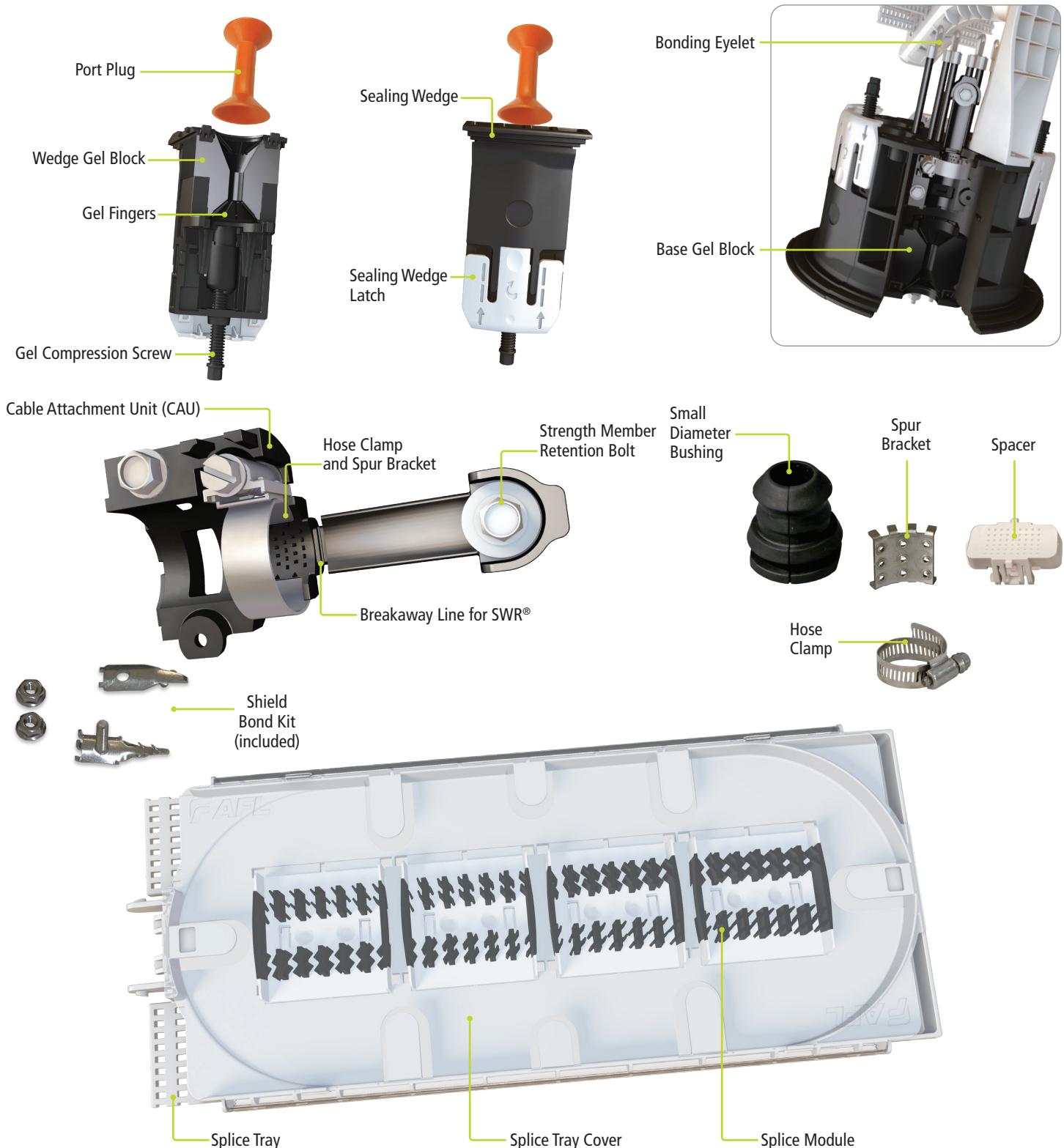


Apex Classroom  
Video Series

## APEX DEFINED



## APEX DEFINED



## OPENING APEX

1. Release pressure valve to ensure no pressure or vacuum is present. (Figure 1)
2. Disengage locking ring.
3. Pull lock ring handle to disengage. (Figure 2)
4. Disengage lock ring latch.
5. Set aside Lock ring.
6. Orient Apex to have mount insert alignment tab up. (Figure 3)
7. Slide Apex dome off base and take care to keep attached dome O-ring seal area clean.
8. Install Apex into optional Installation Stand. (Figure 4)
9. Ensure Universal Stand is configured for X-2. (Figure 4A)
10. If using the Apex Universal Stand, ensure it is set up properly and have the plastic tabs in for X-2 and X-2S.
11. Align mount insert\alignment tab on top in center, basket down.
12. Set Apex on stand with base ring secured in stand slot.
13. Engage both retention clamps on base.
14. Undo both splice tray retention straps.
15. Remove splice trays.
16. Disengage splice tray using sheath knife or similar method to open the splice tray hinge. (Figures 5 and 6)
17. Rotate splice tray to disengage.
18. Loosen stand retention clamps to install backbone cable in port 1 and port 2. Rotate Apex to have basket on top, mount insert at bottom, and re-engage stand retention clamps.

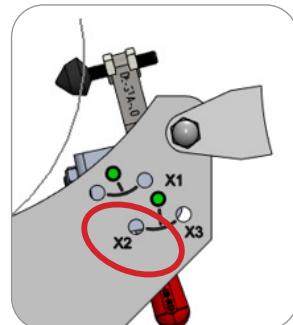


Figure 4A

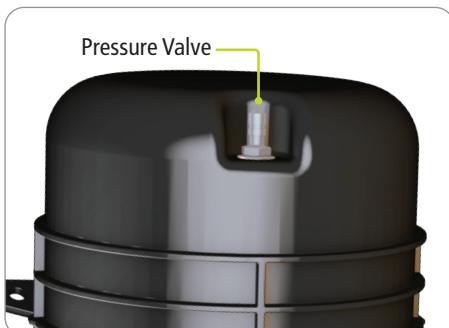


Figure 1



Figure 2

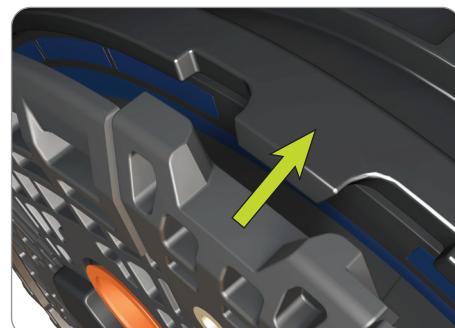


Figure 3



Figure 4

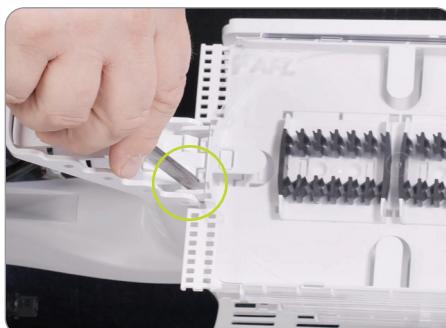


Figure 5

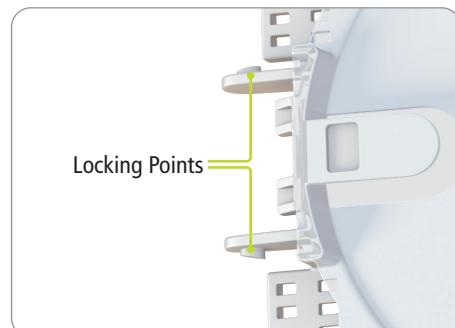


Figure 6

## SEALING WEDGE REMOVAL

### For the port to install a cable:

1. Confirm gel compression screw is not engaged. Then depress sealing wedge latch and slide wedge cover toward the base. (Figure 7)
2. Rotate wedge away from base pivoting at the base of the wedge.
3. Rotate until the wedge tabs disengage from the base.

**Tip: Hold tip of orange plug in base when opening wedge.**

4. Take orange port plug and discard after installation is complete. (Figure 8)
5. Ensure the base gel remains secure in the base.

**If it becomes separated, simply re-install making sure the lower fingers engage properly in the base.**

6. Manually compress the base gel block. (Figure 9)
7. Confirm that sealing wedge gel compression screw is fully open.
8. Manually elongate wedge gel block. (Figure 10)
9. Set aside in a safe location.

**If either gel block is contaminated with dirt or debris, simply rinse gel block with water.**

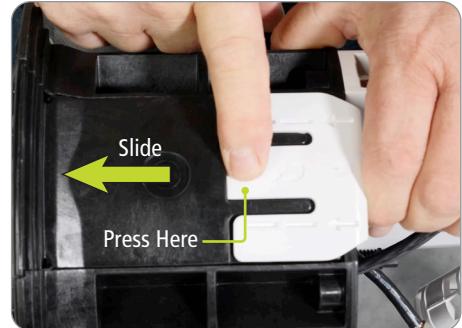


Figure 7

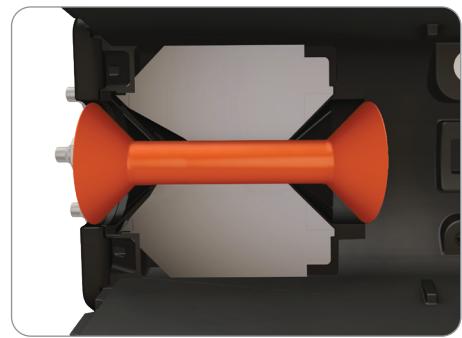


Figure 8



Figure 9



Figure 10

## CABLE PREPARATION

Cable diameter, single port, 0.40" – 1.10" (10.0 – 28.0 mm)

Cable diameter, multi-drop kit, 0.20" – 0.39" (5.0 – 9.9 mm) or flat drop

## SPACER TABLE

BUSHING	SPACERS REQ'D	CABLE DIAMETER
Small Bushing	1 Spacer	0.4" to 0.57"
No Bushing	No Spacers	0.57" to 1.10"

## LENGTH TABLE

CABLE/COMPONENT	TYPE OF OPENING	APEX X-2 (in.)
<b>Prep Length</b>		
Wrapping Tube Cable (WTC)/Non Matrix Ribbon	Mid sheath	111-134**
	End cut	54-90**
Flat Matrix Ribbon	Mid sheath	108-110*
	End cut	54-57*
***Loose Tube fiber	Mid sheath	111-134**
	End cut	54-90**
All cable types	Sheath to tray	41
CSM or strength members (Non SWR®)		2 – 2 1/4
<b>Storage</b>		
Each additional basket storage loop		23-27
Each additional Splice tray service loop		26-27
Sheath to basket for tube retention		8-11
<b>Definition</b>		
Midsheath	Slack loop in basket, service loop in tray, center cut	
End cut	Slack loop in basket, service loop in tray, to far splice location	
Sheath to tray	Slack loop in basket	
* Ribbon minimum is slack loop in basket, no slack waterfall splicing in tray		
** Minimum. No service loop in splice tray – maximum allowing for service loop in splice tray		
*** LT storage max tubes	Additional tubes will decrease cable lengths	18 (432/24 per tube)

### AFL Wrapping Tube Cable (WTC)

- No need to secure strength rods.
- 8 - 11" of dielectric sheath or water block tape can be brought to basket.

### Flat matrix ribbon

- Core tube or ribbon tube should extend from the sheath opening to be secured on the basket.
- Ribbon should be exposed from that point.

### Loose tube and Jettable Micro Cable

- Tubes should be secured at basket entrance and again at basket exit to splice tray.
- Returning loose tube cable to original stranding lay will be more efficient to store and help prevent kinking.

## CABLE ATTACHMENT UNIT (CAU)

### Parts of the CAU (Figure 11 and 12)

- Sheath end
- Hose clamp gear nest in CAU
- Strength member retention bolt
- Alignment tab on back
- SWR breakaway line
- Spur bracket and orientation small diameter cable bushing
- Small diameter cable (<0.57") Bushing and Spacer
- Shield Bond Kit

Strength member (single or dual) trim to 2-2 1/4" as needed.

**(\*) Cable must be clean and free of all tape, dirt or contamination for proper sheath retention and sealing.**

### For WTC/SWR

1. Remove by hand, the strength member retention from the CAU at the breakaway line by hand. (Figure 11)
2. Armored WTC sheath will end at the CAU sheath end location.
  - Armor bond tab should be at 90 degrees to the CAU. (Figure 13)
3. Dielectric WTC or water block tape may be brought all the way to the basket.

### For Flat Matrix and LT

1. Sheath should be installed even with (or beyond) the breakaway line.
2. Secure strength members under retention bolt without trapping or pinching tubes. (Figure 14)

### Bushing Test for Small diameter cable (<0.57")

**\*\* NOTE:** A spacer and bushing are not needed when using a multi cable drop kit.

1. Test if Spacer and Bushing are needed by putting the cable bushing on the fully-jacketed cable.
  - a. If the seams touch, you will use both the Bushing and the Spacer (<0.57"). (Figures 14A and 14B)
  - b. If the seams do NOT touch, the Spacer and the Bushing are not needed. (Figure 14C)
2. If the seams of the bushing meet, you will need to install a Spacer as well. Simply snap the spacer on the CAU as shown in Figure 14. It is universal and may be installed in either direction. Ensure the spacer is secured and clipped on both sides of the CAU.
3. Continue with installation of Cable and utilize the small diameter cable bushing when directed.



Figure 14A



Figure 14B



Figure 14C

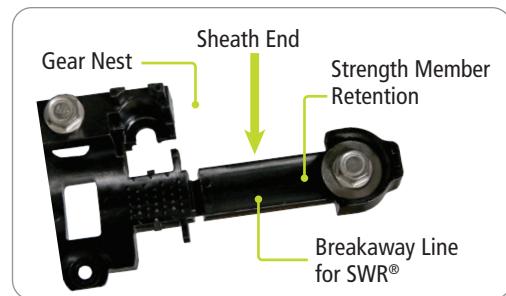


Figure 11

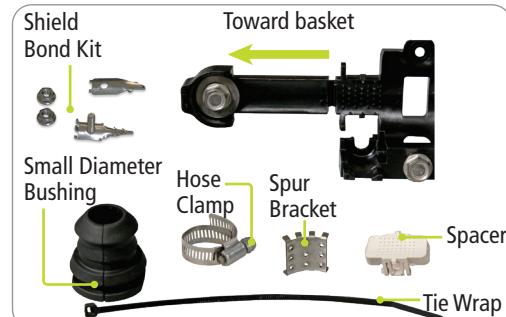


Figure 12



Figure 13



Figure 14

#### Spur Bracket Orientation under Hose Clamp

1. The spur bracket **MUST** be installed completely under the hose clamp ring at the top of the cable. This will be the same with or without a spacer. (Figure 15A)

Figure 15B shows small diameter cable with the spacer installed , spur bracket at the top of the cable and the hose clamp.

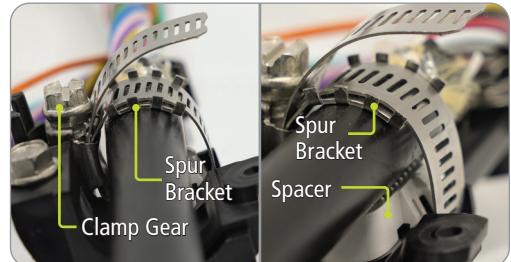


Figure 15A

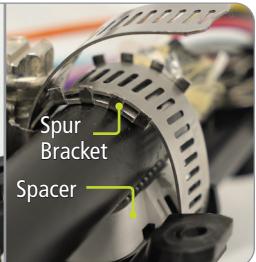


Figure 15B

✳ For WTC/SWR or other preferential bend cable, the strength rods should be parallel to the basket for all cables entering the closure. This aids with the natural direction and ease of coiling all cables.

✳ For mid-sheath on all WTC / SWR binders and tubed flat matrix ribbon, ensure there is no twisting in the mid sheath opening that occurs to trap groups in the splice basket.

#### For all Thin-Walled Jettable Micro Cable

1. Install hose clamp without the spur bracket on any jettable Micro Cable (Figure 15C).

- Bushing and spacer may be needed if not using a multi drop kit. If cable is over 0.40", add spacer to CAU if Bushing test shows it is "Small Diameter Cable" (<0.57"). Install the cable(s) so the sheath extends just past the breakaway slot on CAU allowing the hose clamp to fully engage on the cable.
- Trim and secure all cable strength members under the Central Strength Member (CSM) retention bolt and tighten.
- Install hose clamp WITHOUT spur bracket on all jettable Micro Cable and nest worm gear in CAU.
- Tighten hose clamp to secure cable but not to the point of crushing the cable or attenuating the fiber.

✳ If cable is less than 0.40" (0.20"- 0.39") a multidrop kit must be used. Blank inserts must be installed in all unused positions. Follow Apex multidrop instructions.

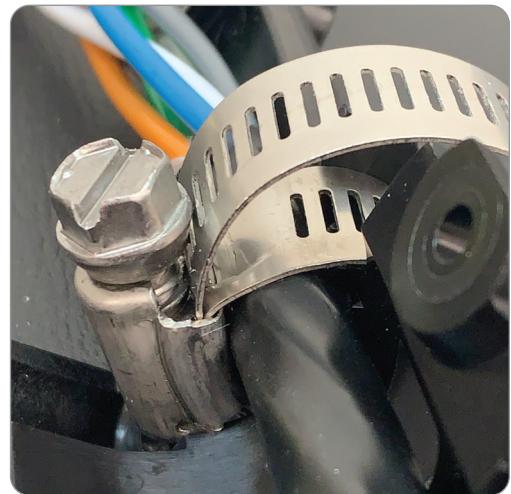


Figure 15C

#### For traditional cable types

1. Secure hose clamp and install spur bracket making sure it is properly oriented (spur bracket on top of cable), but **do not fully tighten**.
2. If cable is armored a tab will be left for the ground stud, it should be oriented to the side of the CAU. (Figure 16)
3. Tighten hose clamp to tighten to 30 in-lb which is about the maximum you can get on a can wrench.



Figure 16

[See Addendum for Shield Bond Instructions on page 19](#)

✳ Cable must be clean and free of all tape, dirt or contamination for proper sheath retention and sealing.

✳ [See Addendum for Shield Bond Instructions on page 19](#).

## CABLE GROUNDING

- Armored cables can be bonded using Apex Shield Bond clips. Simply slit cable armor on both sides at approximately 1" and install bonding hardware. (Figure 17)
- Bonding hardware is typically defined by local practice or end user. Apex offers a bonding eyelet for up to a 1/4" ground stud. (Figure 18)

✳ [See Addendum for Shield Bond Instructions on page 19.](#)



Figure 17

### Installing the populated CAU into Apex base

1. Bring CAU and Cable to base and carefully guide the exposed fiber to the basket.
2. Lower CAU to base and engage alignment tab. (Figure 19)
3. Using 216 can wrench, begin to thread the CAU retention screw.
  - Confirm alignment of CAU and fiber cable orientation.
  - Confirm the tail of hose clamp is in position to be retained.
  - Fully tighten CAU retention bolt. (Figure 20)
4. If applicable, verify WTC cable rods are aligned in the same orientation parallel to the basket. This goes for all ports on Apex.
5. Tighten the hose clamp to 30 in-lb. to secure cable.

✳ ***Do not over tighten hose clamp. It may affect the optical characteristics of the cable.***

6. Secure inbound fibers or tubes with Velcro or tie wraps near yoke of basket and outbound fibers should be secured closer to the outside of the basket. (Figure 21)

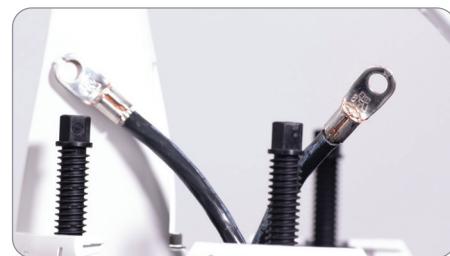


Figure 18



Figure 19

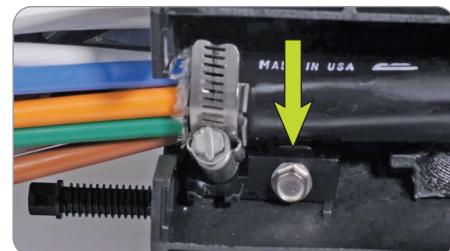


Figure 20



Figure 21

## INSTALLING SEALING WEDGE

Make sure cable and ground are properly oriented and will not interfere with sealing wedge installation.

1. Depress base gel and elongate sealing wedge gel. (Figures 8 and 9 — page 6)
2. Ensure gel compression screw is in the relaxed position.
3. Engage sealing wedge pins into bottom of base. (Figure 22)
4. Rotate sealing wedge into place and depress the sealing wedge lock tab to engage latch and fully lock into place.
5. Inspect top and bottom of sealing wedge for complete engagement.
6. Attach bonding eyelet if applicable. (Figure 23)

## SMALL DIAMETER CABLE BUSHING

1. Open bushing and install over small diameter cable with the taper toward the base. (Figure 24)  
If the seam of the bushing closes, the grommet should be installed. The spacer should have been attached to the CAU with small cable installation
2. Take supplied tie wrap, begin to secure it within the groove.
3. Align head of tie wrap in opening of bushing slot. (Figure 25)
4. Pull tie wrap to cinch. Do not over tighten to deform bushing.
5. Slide bushing toward base port and firmly insert into wedge gel. (Figure 26)

✳ *This bushing MUST be installed prior to compression of the gel compression screw.*

6. Tighten gel compression screw with 216 can wrench or similar tool. This will tighten to a positive stop; no need to tighten past that stop. (Figure 27)

✳ *Once all cables have been installed and the gel compression screws have been tightened, the remaining empty port gel compression screws must be tightened on the orange port plug to seal the closure.*

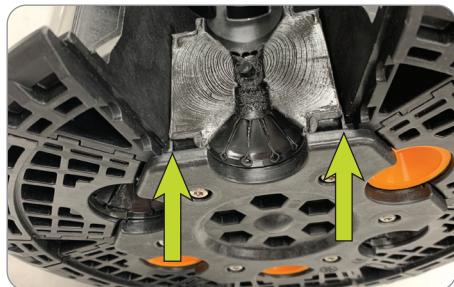


Figure 22

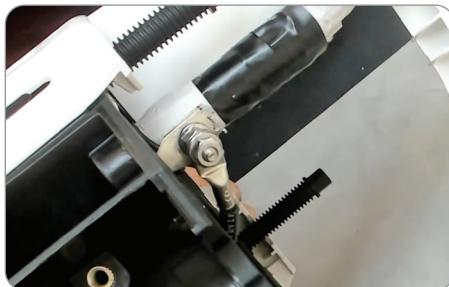


Figure 23

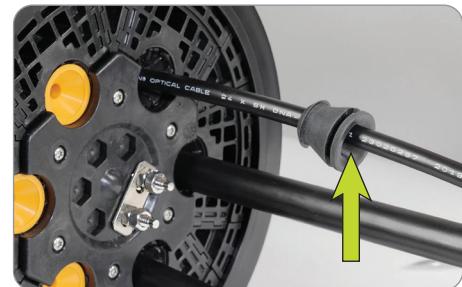


Figure 24

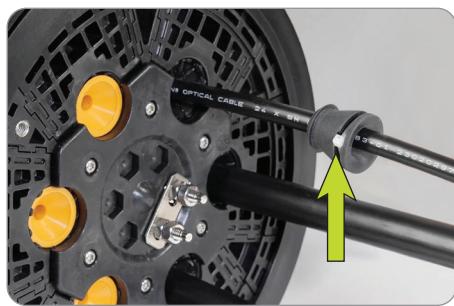


Figure 25



Figure 26

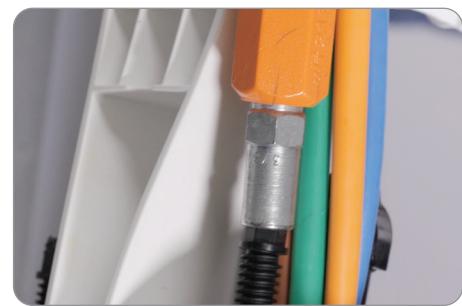


Figure 27

## ROUTING IN SPLICE BASKET

All length cables include a storage loop in the basket. (Figure 28)

See Addendum B for deep basket instructions. When configuring with a deep basket, only positions 3-6 can be used.

1. Rotate closure in stand to basket down position for the fiber to be routed and spliced.
2. Basket tabs or inner basket may be removed for ease of initial installation. Release the inner basket hinge to remove by squeezing and rotating the basket tab to remove. [See page 13](#), step 1. These tabs may be replaced in the basket after initial installation.
3. For Deep Basket ONLY: End plate will unlatch from back corner by releasing tabs under edge. The entire end plate can be removed the same as the tray at a 45 degree angle and wiggle to release hinge. (Figure 28A)
4. Input cables are installed near the yoke base and exit near the top edge of basket.
5. Secure units with supplied Velcro or tie wraps. (Figure 29)
6. When storing high count loose tube it is recommended to use the minimum lengths in the table. It is strongly recommended to keep the fiber cable stranded after removal of the central strength member. Remove the fibers that will be spliced and secure any unused fiber lower in the Apex basket with Velcro or tie wraps. Run tubes that will be spliced along the outer edge of the Apex basket
7. Transport ribbon fiber from basket to tray with or without additional protection. AFL silicone spiral wrap, transition tubes or nylon weave may be used if desired.
8. Do not completely tighten the retention on fibers exiting to the tray. Basket fiber slack may need to be adjusted before final dressing.

**✳ SWR and ribbon fiber can be safely transported from the basket to the tray without any additional protection. Secured with AFL foam retention. (Figure 30)**

9. Additional storage loops can be retained in the basket – [see length table, page 7](#).
10. Ribbon fiber should be retained toward the center of the basket if Branch or Drop cables will be installed.
11. Branch or drop cables should be routed to the upper edge of the basket.



Figure 28

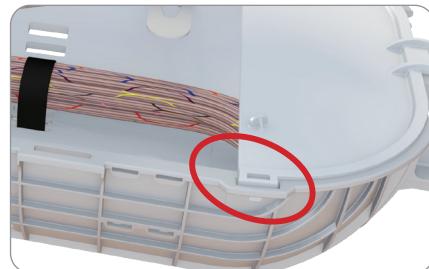


Figure 28A



Figure 29



Figure 30

## INNER BASKET APPLICATIONS

The optional Apex inner basket can be used to add additional protection to the backbone fiber when installing branched and drops.

The inner basket should be removed from the main basket for initial cable installation.

1. The Inner basket is released from the base by squeezing the two keyholes in the inner basket cover. (Figure 31)
2. Using a sheath knife or similar tool, pry hinge open at yoke. (Figure 32)
3. Rotate inner basket to remove from yoke.
4. To replace the inner basket, simply engage one mounting pin on the lower yoke and rotate inner basket to engage second pin. Raise and lower inner basket.

**※ There is no latch to release to lower the inner basket.  
Simply grasp firmly and lower into place.**

5. Basket tabs must be removed (if present) with two hands to utilize inner basket.
6. Secure tubes and fiber in inner basket with proper slack to open and close without pinching. (Figure 33)
7. Do not completely tighten the retention on fibers exiting to the tray. Basket fiber slack may need to be adjusted before final dressing.



Figure 31



Figure 32



Figure 33

## SPLICER TRAY OPTIONS AND ROUTING

Apex splice trays are universal for Loose tube, Ribbon and SWR® splicing applications. Each Apex X-2 can hold up to 6 splice trays. Each Apex X-2 splice tray holds up to 4 modules.

FIBER	SLEEVES PER MODULE	X-2 SPLICE TRAY 4 MODULES
Single loose tube	24 splices quad stacked	96 fibers
Flat matrix ribbon	12 double stacked	288 fibers
SWR/Non-matrix ribbon	12 double stacked	576 fibers

**Splice trays can be shipped empty, partially loaded or fully loaded and splice modules are field movable. (Figure 34)**

1. To add a splice module to Apex splice tray, simply align the latch tabs. (Figure 35)
2. Slide to engage. (Figure 36)
3. To remove a splice module simply disengage the locking tabs on the back with a pair of shears and slide module to release latch. (Figure 37)
4. SWR and Loose Tube fiber is spliced using slack storage in the tray. Allow splice sleeves to cool before installing into splice modules. Lightly press down on the sleeve using two fingers directly above the two flexible tabs until the sleeve(s) is secured within the splice module. (Figure 38A)
5. At the ends of the splice tray, do not route fiber toward closest end of the tray. The three-end splice sleeve locations at each end should always route away from the tray end. (Figure 38B)
6. Flat matrix ribbon is typically waterfall spliced; but there is room for storage if desired. (Figure 39)

 ***The openings between modules are designed to act as a fiber pathway if desired.***



Figure 34

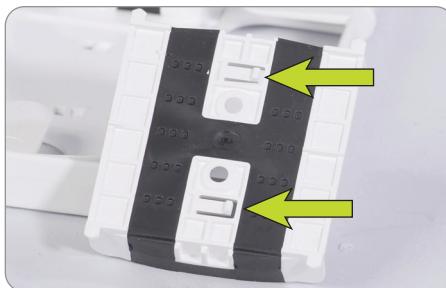


Figure 35

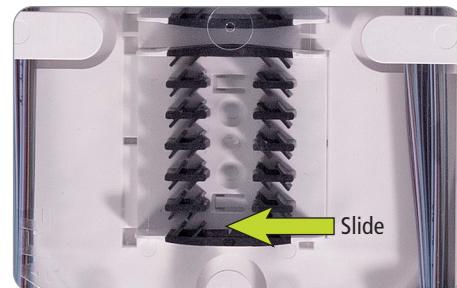
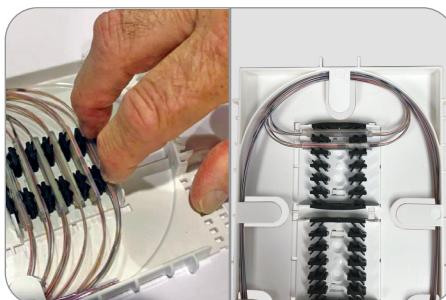


Figure 36



Figure 37



Figures 38A (l) and 38B (r)

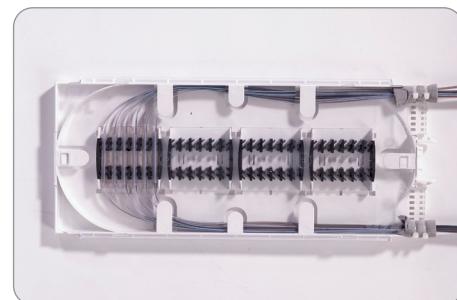


Figure 39

## INSTALLING SPLICE TRAY

All types of splicing, loose tube or ribbon, can be done in the same splice tray and can coexist in the same tray if desired.

1. Splice trays should be installed beginning at position #2 without a gap. (Figure 40)
2. Tubes should be attached to tray one layer at a time starting at position #2, bottom up to prevent trapping. (Figure 40A)
3. Install splice tray by engaging hinge pin onto yoke and rotating tray into place. Start at the second position up on the spline. (Figure 40A)
4. Raise the tray to its upper locked position.
5. Release tray by depressing locking tab at the bottom center of the tray and lower into place. (Figure 41)
6. Loosely secure fiber or tubes at tray entrance.
  - Use a few wraps of supplied adhesive foam on loose tube products. (Figure 42)
  - Two tie wraps per bundle – supplied. (Figure 42)
  - Secure with AFL foam retention. (Figure 43)
  - Optional transition tube. (Figure 44)
  - Optional Apex Advanced Fiber Retention System for Loose Tube or Ribbon. No zip ties needed. (Figures 45A and 45B)
7. Begin routing to splice.
  - Each bundle of fibers will make a full loop in the tray to splice to the furthest location.
8. Once all splices are complete, address the slack behind the yoke in both open and closed positions. Adjust slack and secure both the tray and basket retention on the fibers.

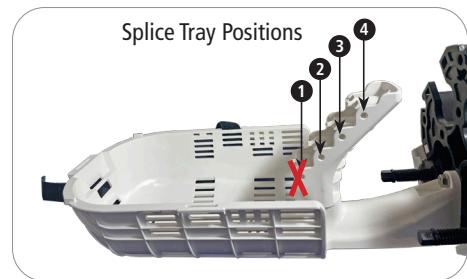


Figure 40



Figure 40A



Figure 41

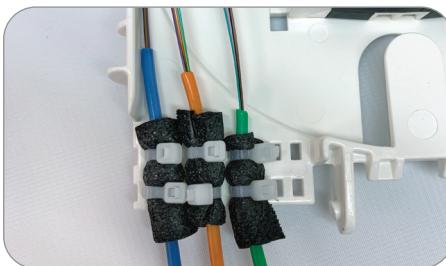


Figure 42

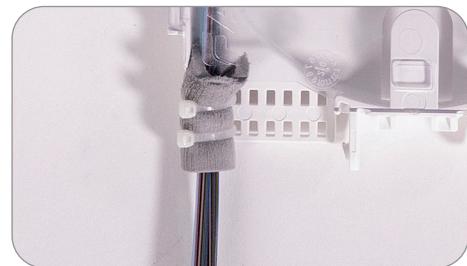


Figure 43

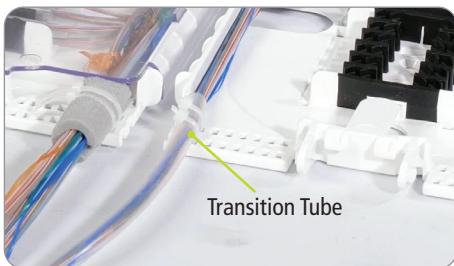


Figure 44



Figure 45A



Figure 45B

## ALTERNATE SPLICING METHOD

Apex is designed for high-count fiber splicing. The following is a method where multiple splicers can work simultaneously on one case.

1. On the length table ([page 7](#)), use the "Sheath to Tray" distance.
2. Take fibers straight from CAU over the basket and mark fibers or tube at this distance.
  - Protect the fibers as they lay over the basket edge.
3. Secure fibers or tubes to tray at mark. ([Figure 46](#))
4. Splice, route and close tray.
5. Figure-8 the fiber into the tray at the top of the basket and again under the yoke. ([Figure 47](#))
6. Install trays starting from the bottom up without skipping a slot.
7. Once all splices are complete, address the slack behind the yoke in both open and closed positions.  
Adjust slack and secure both the tray and basket retention on the fibers.

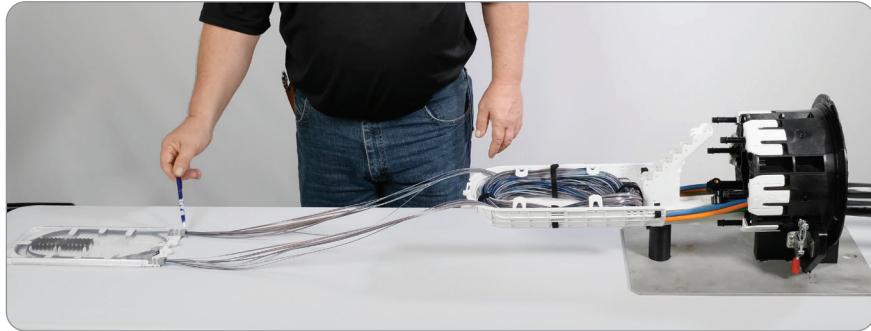


Figure 46



Figure 47

## FINAL ASSEMBLY

1. Ensure all cables, tubes and fibers are secured on both tray and basket.
2. Ensure orange blank plugs are installed in every unused port.
3. Ensure small diameter bushings are fully seated on cables under  $\frac{1}{2}$ ".

**※ The gel compression screw must be in the open position to install the orange blank plug or the small diameter bushing.**

4. Ensure all gel compression screws are fully engaged.
5. Pull the two Velcro straps through the horizontal and vertical strap slots soft side up. (Figure 48)
6. Secure the horizontal strap. (Figure 49)
7. Secure the vertical strap. (Figure 49)
8. Clean O-ring of debris, with water if needed, and redistribute existing grease. Each time the closure is entered, apply a fresh thin coat of Apex grease on the top and inside of the O-ring to prevent sticking when installing Apex into dome. (Figure 50)

**※ For MSDS of the grease, visit our Environment, Health and Safety section at [www.AFLglobal.com](http://www.AFLglobal.com).**

9. Align the tab and slip dome on.
10. Engage lock ring latch and secure lock ring.
11. Note orientation of lock ring so the handle or hinge will not interfere with mount insert if pole/wall mounting. (Figure 51)
12. Secure lock ring handle to lock ring.
13. Apply lock tag if desired.

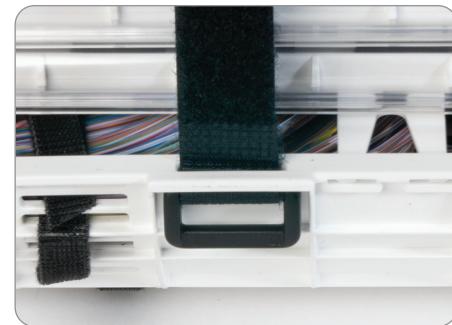


Figure 48

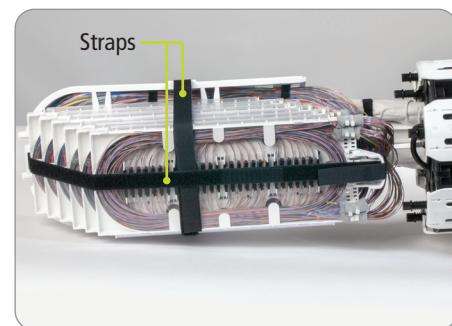


Figure 49



Figure 50



Figure 51

## Flash test closure

1. Apply 5 PSI of air to the flash valve on dome. (Figure 52)
2. Inspect base for leaks with a spray of soapy water.
3. If there are no apparent bubbles, the closure passes.
4. If bubbling occurs:
  - Remove dome
  - Check sealing wedges
  - Check CAU brackets and hose clamps
  - Check the O-ring is clean and greased

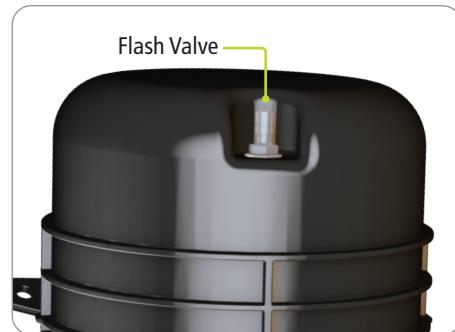


Figure 52

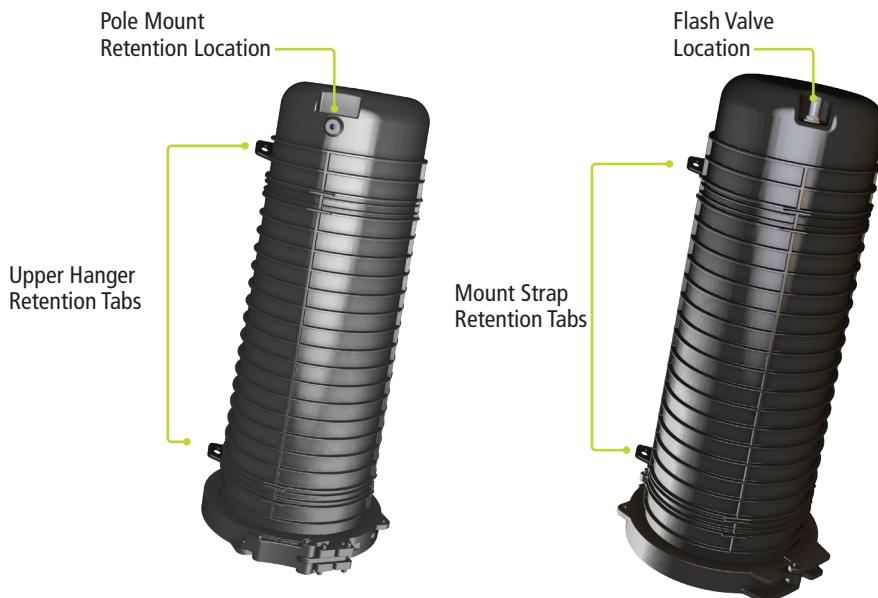
## MOUNTING APEX

The Apex closure can be mounted to the strand using cable spacers and straps.

1. Align stack of cable spacers on the same side as the mount insert. (Figure 53)
2. Align strap with retention tabs on bottom of dome.
3. Secure straps and Apex to strand.



Figure 53



For complete installation instructions and video, visit [www.AFLglobal.com/APEX](http://www.AFLglobal.com/APEX) or use the QR code.



## ADDENDUM A: AFL APEX® SHIELD BOND KIT

All Apex models ship with the Shield Bond Kit.

This kit includes 10 pieces of individual shield bond kits.

Each individual kit (Figure 1) includes:

- Bottom clamp with 3/4" stud for 1/4" eyelet
- Top clamp
- (2) 3/8" nuts



Figure 1

### Ordering Information

DESCRIPTION	AFL NO.
Apex Cable Bonding Kit (bonds armored cable sheath to ground eyelet). Pack of 10	AX-KIT-GROUND-10

## INSTALLATION OF SHIELD BOND CONNECTORS

The Shield Bond Connectors are designed to make a stable and low-resistance electrical connection between communications cables and a conductor such as a strap, wire or braid.

### Tools Required

- A. 216 tool or 3/8" Wrench
- B. Tabbing Shears (optional)

1. All cables must be slit or tabbed with a 1" slit on the two sides of the sheath (Figure 2). This will ease insertion and avoid fiber damage.
2. Insert connector base between shield directly below the armor layer and core wrap, or inner sheath for double sheath cable, until connector stops meeting the outer sheath. Tap sheath above connector base to set teeth into armor layer providing an electrical path. (Figure 3)
3. When attaching bond braid, if additional grounding or bonding eyelet is used, install it above the first nut and secure it. (Figure 4)
4. Install grounding medium and add second nut. Both nuts need to be tightened to 35-45 inch-lbs with a company-approved tool to ensure proper connection. (Figure 5)



Figure 2

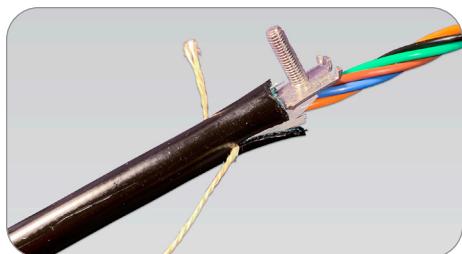


Figure 3

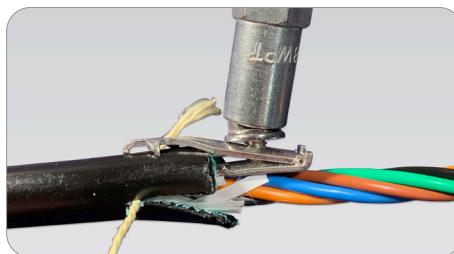


Figure 4

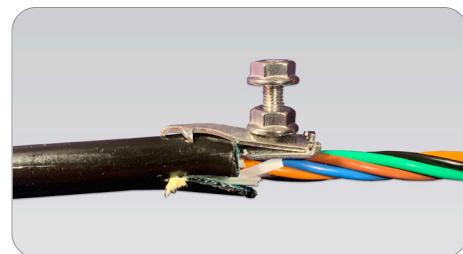


Figure 5

The X2 Deep Basket increases storage in the Apex X-2 Splice closure.

## ADDENDUM B: WHEN CONFIGURED WITH A DEEP BASKET

**\*\* NOTE:** An Inner Basket cannot be utilized.

1. Fill four (4) available tray slots from the bottom. Only positions 3-6 will accommodate splice trays. (Figure 1)
2. To open the end cap, release the two (2) side tabs and lift. (Figures 2 and 3)
3. Install four (4) basket tabs at the locations shown in Figure 4.
4. If the end cap needs to be removed, simply place at approximately a 90° angle and gently pull to remove. (Figures 5 and 6)
5. To reinstall simply address the end cap to the basket at approximately a 90° angle and gently push the hinge pin in place.
6. Ensure the end cap is installed properly and secure before lowering splice trays into resting position. (Figure 7)
7. Route and secure fiber in the basket.

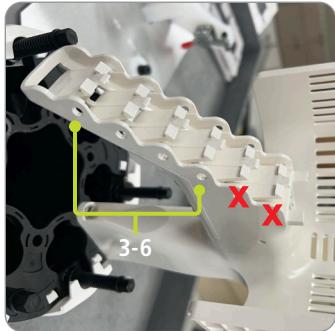


Figure 1

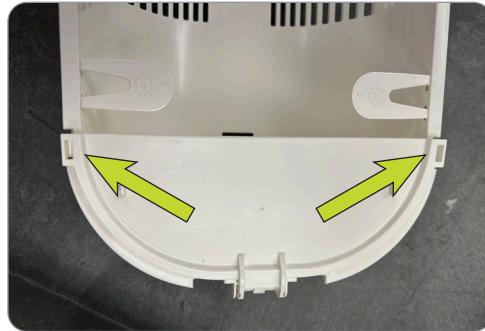


Figure 2



Figure 3

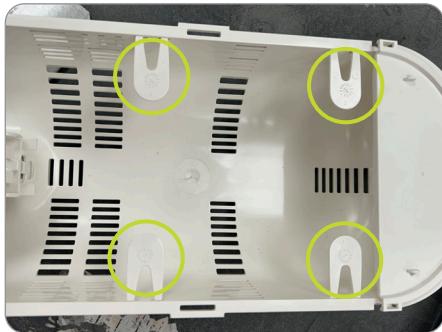


Figure 4



Figure 5



Figure 6



Figure 7