

# ALL DIELECTRIC AND ISOLATED GROUND “G” SERIES

## Fiber Optic Closure Instructions

For PSCA570SG, PSCI570SG, PSCA570WG and PSCI570WG Series Closures

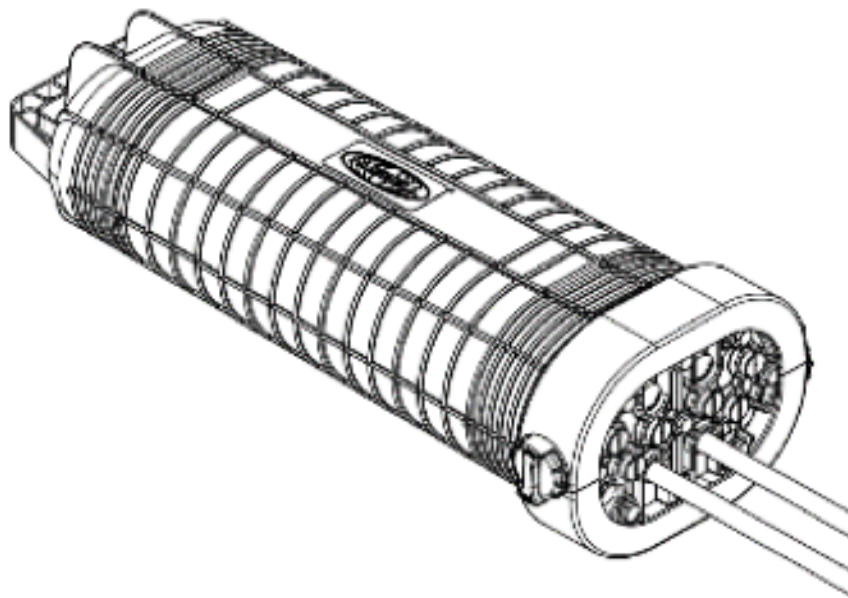
### PRODUCT INTENDED USE

The Hubbell 570 “G” series AD and Isolated Ground closures are intended for use as fiber optic splice outdoor and underground closures.

### SAFETY INFORMATION

The instructions in this document are not intended as a substitute for proper training or adequate experience in the safe installation and operation of the product described. Only competent technicians familiar with this product should install, operate and service it. Prior to installation, inspect the closure for any damaged or missing components.

**This section provides instructions on the preparation of a new closure, cable installation into the closure and sealing the closure.**



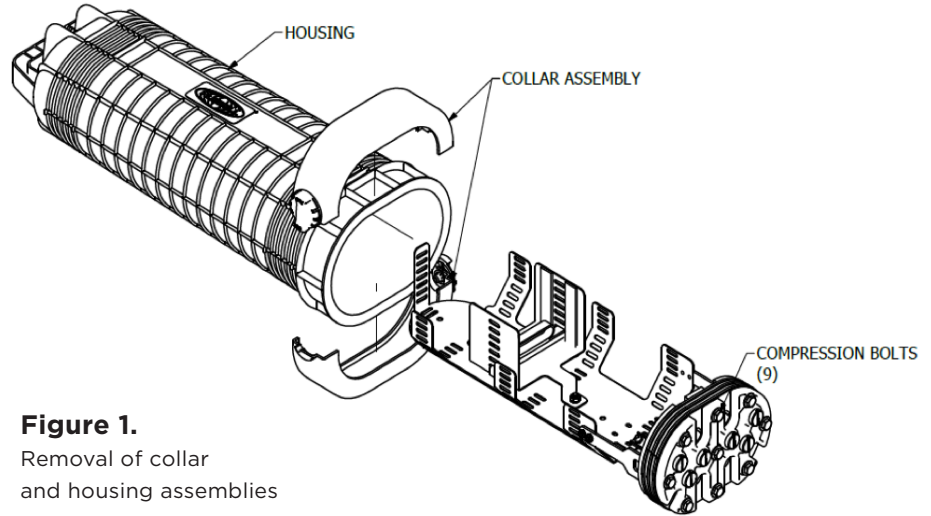
## STEP - 1

The following tools and materials are required in addition to those used in normal splicing practices:

- Ratchet/socket or box/open end wrench 1/2"
- Ratchet/socket or box/open end wrench 3/8"
- Screwdriver, flat blade
- Hex key wrench 1/8" (Isolated ground closures only)

## STEP - 2

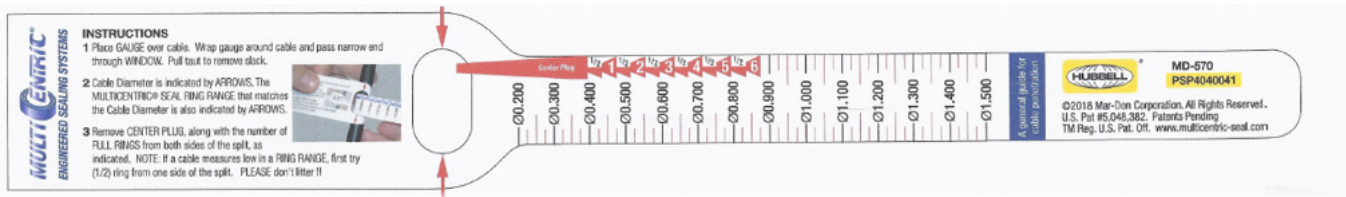
Remove collar assemblies and loosen the compression bolts on the end plate. The bolt heads should be backed off approximately 1/8" from the washer. Remove the closure housing and set aside. **(See Figure 1)**



**Figure 1.**  
Removal of collar  
and housing assemblies

## STEP - 3

Refer to cable measuring guide that is provided with closure to determine the proper grommets to be used. **(See Figure 2)**



**Figure 2.**  
570 measuring gauge

After measuring the cable with the provide gauge refer to **Table 1** to determine which grommets to use.

Table 1. Grommet selection chart.	
Gauge measurement	Grommet Part number:
Center plug	PSP4040318
1	PSP4040319
2	PSP4040320
3	PSP4040321
4	PSP4040322
5	Grommet not required (cable diameter .71"-.75")
6	Closure not meant for cable larger than 0.75" dia.



## STEP - 4

Prepare cable per standard/local practice. NOTE: No less than 48" of buffer tube from cable "butt" to splice tray should be exposed along with the desired length fiber in the tray.

**Example:** if 36" of fiber is desired in splice tray expose  $36" + 48" = 84"$  of total buffer tube.

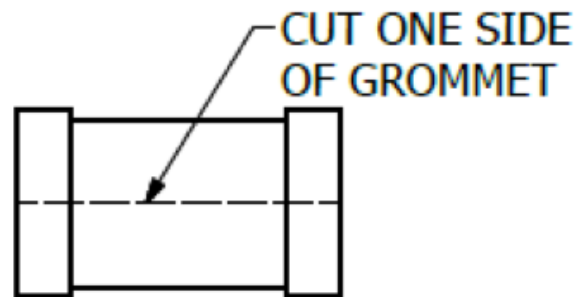
## STEP - 5

### For isolated ground closures only (armored cable):

Install shield bond connector to cable shield in accordance with standard/local practice.  
Wrap shield bond connector with electrical tape.

## STEP - 6

Cut selected grommets as shown in **Figure 3** with sharp utility knife or a sharp pair of scissors.



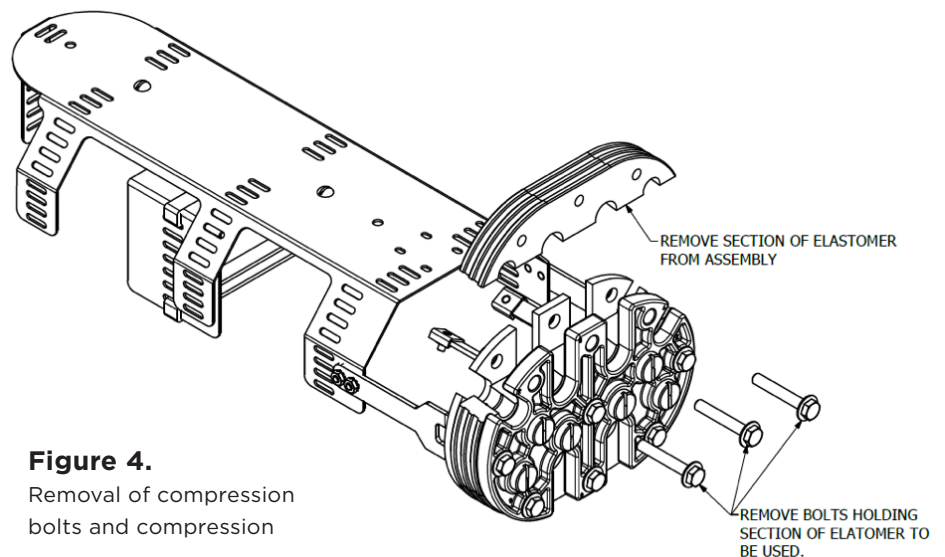
**Figure 3.**

Cut grommet along center dotted line

## STEP - 7

Remove 3 compression bolts holding elastomer section around the cable entry ports to be used. Remove the freed section of the split compression seal and put aside.

**(See Figure 4).**



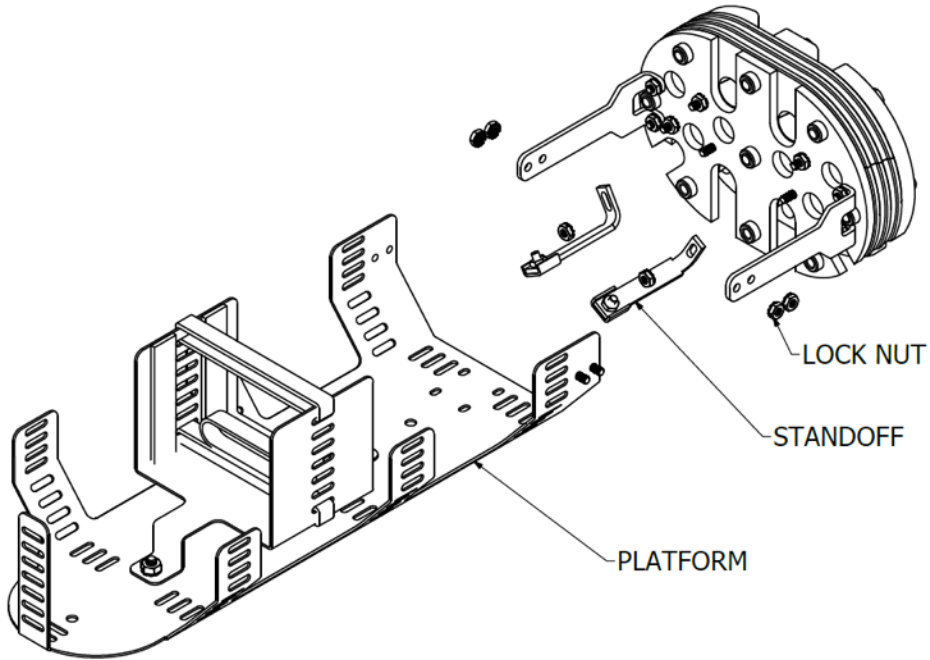
**Figure 4.**

Removal of compression bolts and compression



### STEP - 8

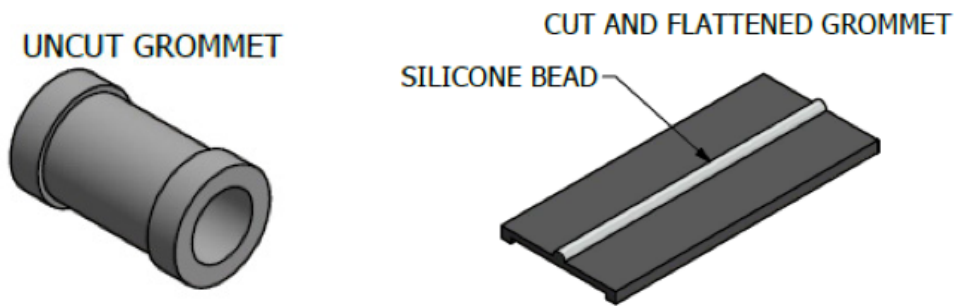
It is recommended for easier assembly to remove the platform and the standoffs from the assembly. (See Figure 5)



**Figure 5.**  
Removal of platform and stand offs

### STEP - 9

Apply a bead of RTV silicone to inside of grommet in the center as shown in **Figure 6**.

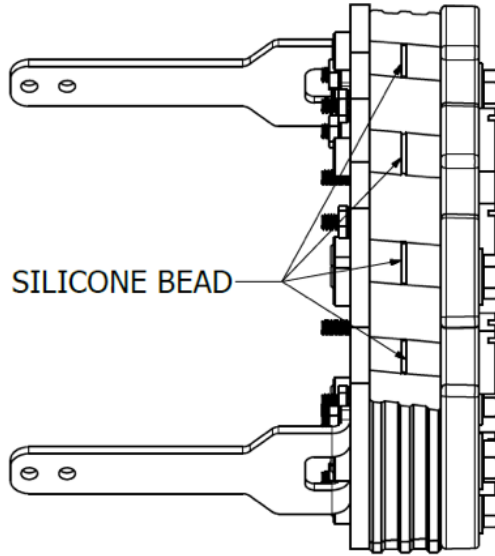


**Figure 6.**  
Uncut grommet and flattened grommet with RTV silicone bead



**STEP - 10**

Apply RTV silicone bead to inside radius of cable ports of seal. **(See Figure 7)**

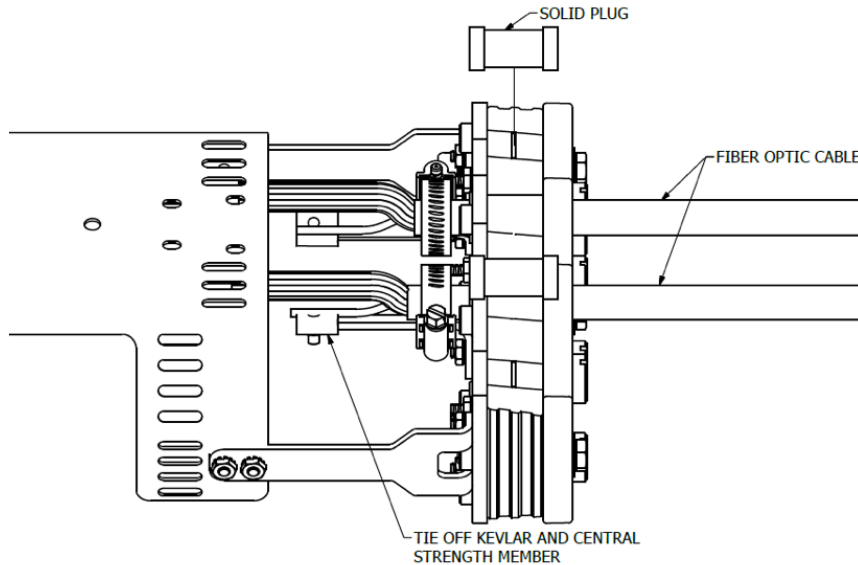


**Figure 7.**

Apply RTV silicone bead to inside radius of cable ports

**STEP - 11**

Tie Kevlar and insert central strength member under clamping plate at the end of the cable tie stand-off bracket. Secure hose clamp around stand-off bracket and cable. Install cut grommet with RTV silicone bead around cable. Install prepared cable with stand-offs into cable port. Install solid plug into unused cable ports. **(See Figure 8)**



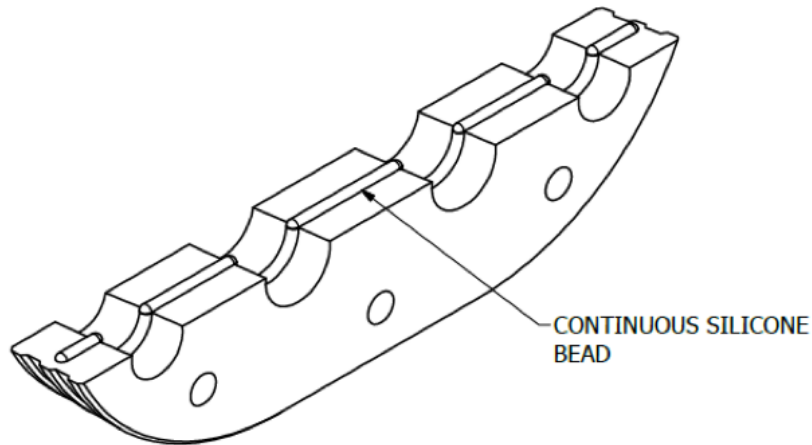
**Figure 8.**

Cable and plug installation



## STEP - 12

Apply a continuous RTV silicone bead to the center of removed section of seal.  
(See Figure 9)



**Figure 9.**

RTV Silicone application

## STEP - 13

Reinstall seal section and compression bolts. The threads of the bolts should be engaged with nut of the inside plate, but the washer should still be able to move freely.

## STEP - 14

Remove compression bolts holding the unused section of the seal and remove the section of the seal. Apply RTV silicone bead to inside radius of unused cable ports. Install large solid plugs into unused cable ports. Apply RTV silicone bead to freed section of seal before reinstalling seal. Reinstall compression bolts.

## STEP - 15

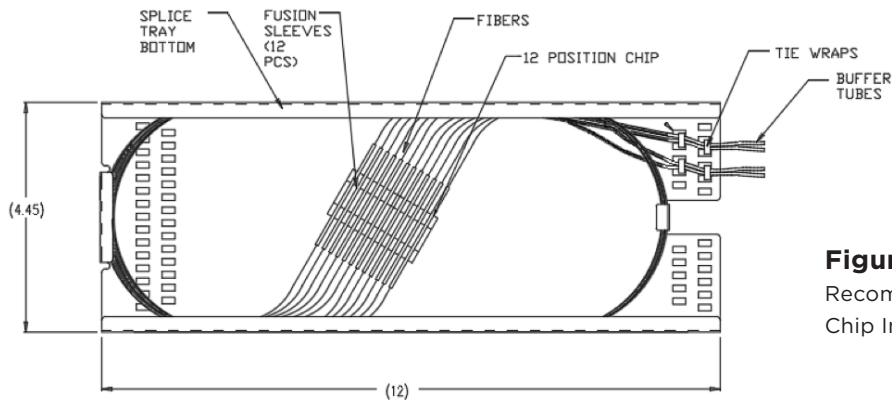
Reinstall platform to the assembly. Tighten locknuts.

## STEP - 16

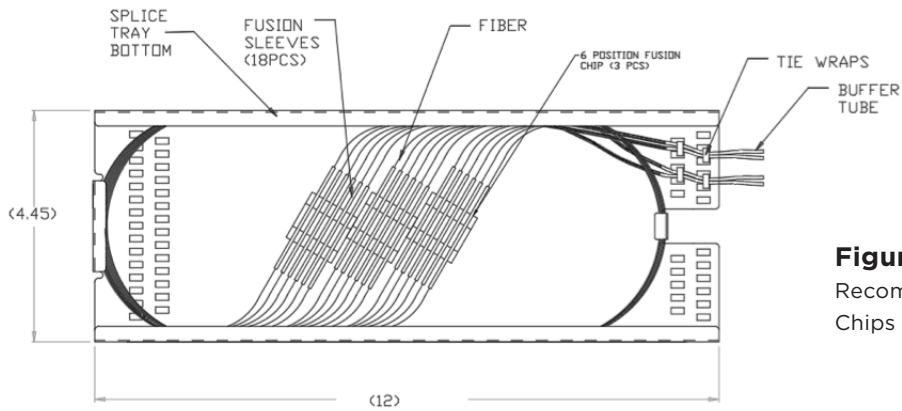
Splice fibers in accordance with standard local practice.

(See Figures 10, 11, 12, and 13 for recommended splice chip placement.)

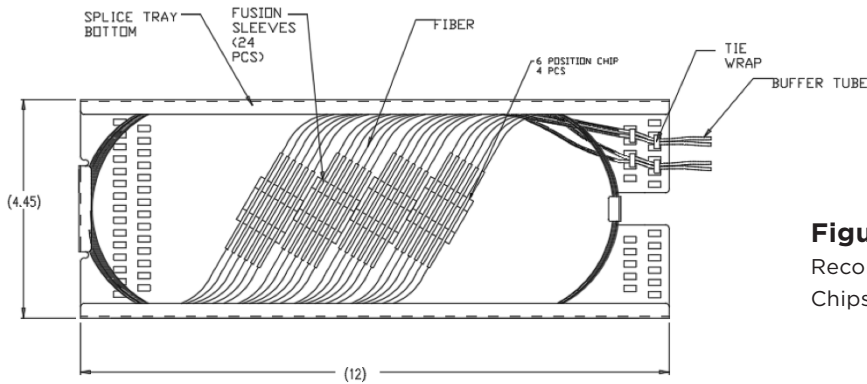




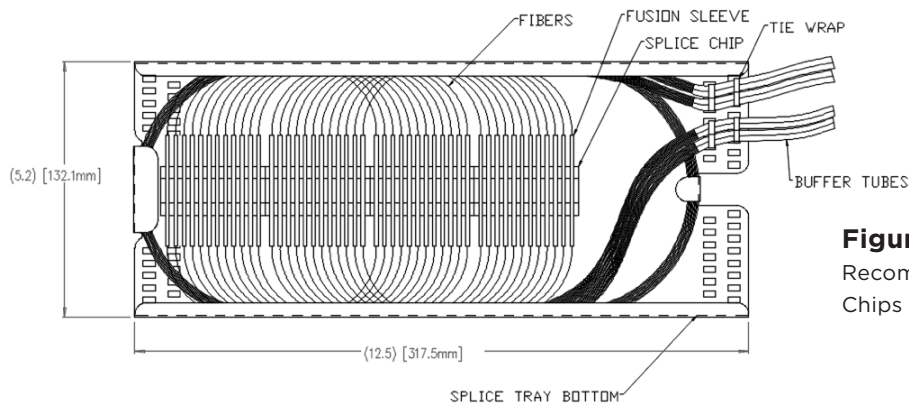
**Figure 10.**  
Recommended Position Of  
Chip In 12 Fiber Trays



**Figure 11.**  
Recommended Position Of  
Chips In 18 Fiber Trays



**Figure 12.**  
Recommended Positions Of  
Chips For 24 Fiber Trays



**Figure 13.**  
Recommended Positions Of  
Chips For 48 Fiber Tray



## STEP - 17

### For Isolated Ground Closures only:

Remove exterior compression ground connector from outer end plate. Push ground rod through compression seal until hex set screw is showing. Loosen compression nut from exterior compression connector and slide connector and nut over exterior ground wire. Insert exterior ground wire into ground rod and tighten set screw with hex key wrench. Screw outer ground connector back into end plate until O-ring is compressed against the plate. Tighten compression nut in a manner that it seals around jacket of exterior ground wire.

(See Figure 14 for isolated ground detail.)

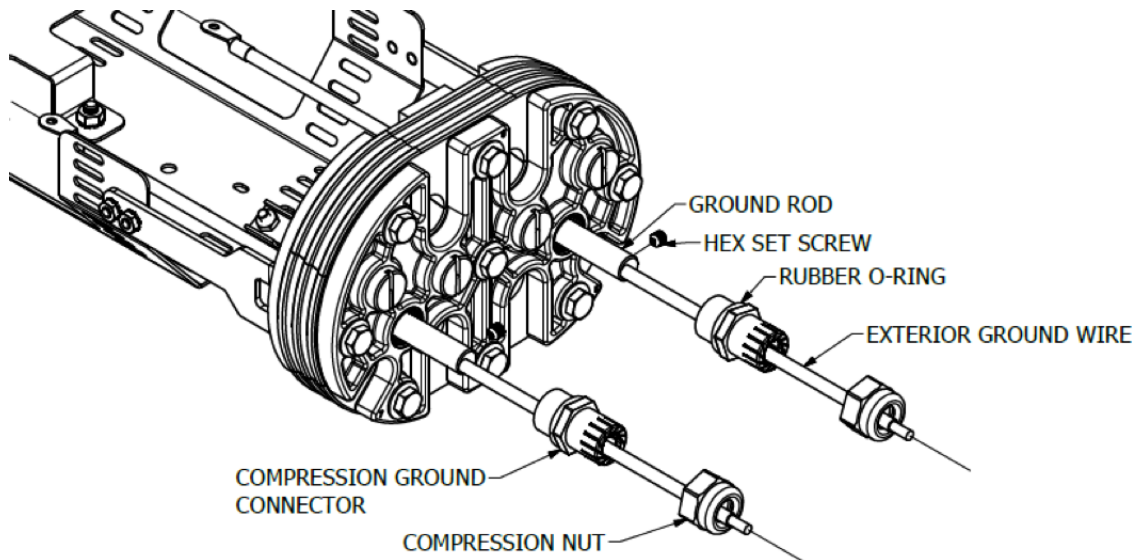


Figure 14.

Isolated Ground detail

## STEP - 17

### For Isolated Ground Closures only:

After securing armored cable inside seal, install #10 termination from isolated ground cable assembly to stud of shield bond connector and secure. (See Figure 15.)

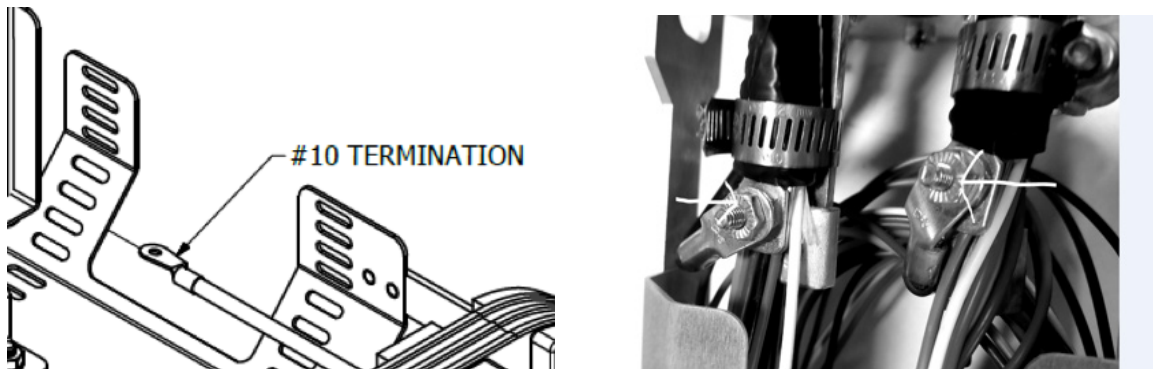


Figure 15.

#10 termination attached to shield bond connector

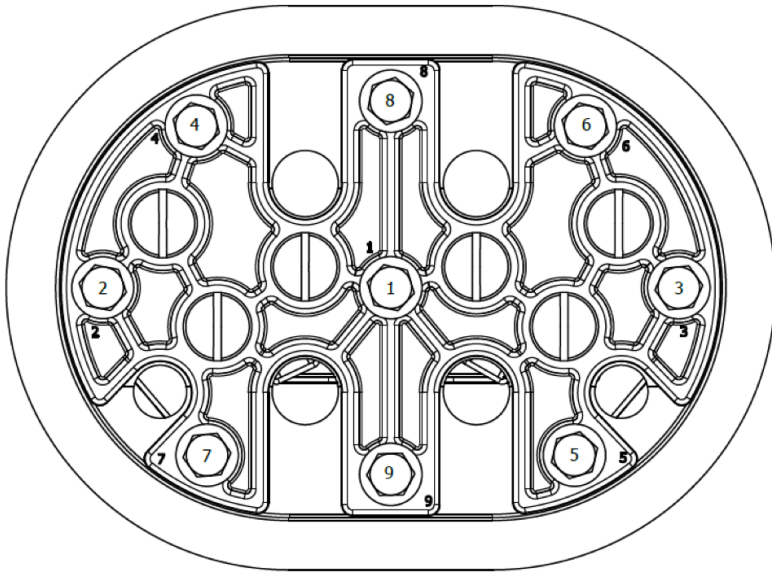




## STEP - 19

### For all closures:

Secure trays into tray holder using provided Velcro. Insert completed closure into housing. Tighten all compression bolts until washers no longer move freely. Tighten bolts in bolt tightening sequence. Begin with center bolt and tighten one full turn. Then proceed to bolts 2-9 (see **Figure 16 for bolt tightening sequence.**) Repeat the tighten sequence for an additional full turn.



**Figure 16.**  
Bolt tightening sequence

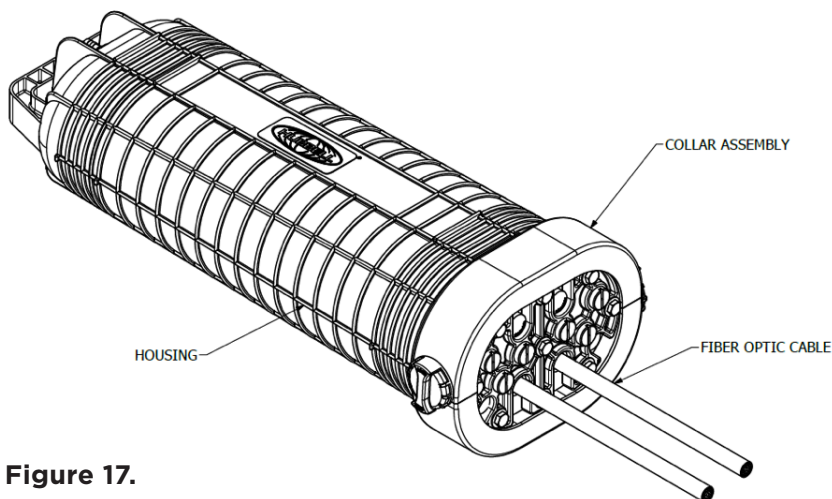
## NOTICE

Failure to follow bolt tightening sequence could result in closure not sealing properly allowing moisture to enter the closure, which could result in damage to fibers.

Do NOT use impact wrench or powered ratchet tool to tighten bolts. Could result in over torquing bolts and damage to closure could occur.

## STEP - 20

Install collar assemblies onto completed closure (See **Figure 17**) and use locking knobs to secure collars to housing. Pressurize to verify that closure is sealed.



**Figure 17.**  
Completed closure with collars installed

## CAUTION

DO NOT exceed 6 psi. Over pressurization could result in minor to moderate injury.



## **STEP - 21**

### **Closure Re-entry:**

Loosen all compression bolts of closure. All bolts must be loose to relieve compression of end plate. Pull cables with a steady force to slide end seal out of closure. If seal sections are to be removed, follow removal and sealing instructions in sections 7-13. Remove old RTV silicone before applying a new bead.

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## **DISCLAIMER**

These products should only be installed, used, or serviced by adequately trained personnel. These instructions are not a substitute for adequate training in the safe use of these products, and they do not address all situations that may be encountered when using these products. When using any product, always read and follow the installation and operating instructions and warnings for the product, all applicable federal, state, and local safety regulations, industry standards, and your employer's internal safety guidelines and operating instructions. Failure to follow applicable safety rules and instructions may result in serious injury, death, and property damage.

The user is responsible for the safe installation and use of any product, and must evaluate the conditions at the time of use and consult with their employer's internal safety guidelines or safety experts hired by your employer, as needed.

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If further information is desired or if particular problems are encountered which are not sufficiently covered in these instructions, contact Hubbell Power Systems, Inc. for additional information.

Operating and installation instructions are available on the Hubbell Power Systems, Inc. website: [hubbellpowersystems.com](http://hubbellpowersystems.com)







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