

Cold-Sealed Terminal Closure with DTerminator 2 Terminal Blocks

1.0 General Product Information

The CST cold-sealed terminal closure with DTerminator 2 terminal blocks is a ready access terminal closure that accommodates up to ten copper conductor pairs from buried or aerial drop wire. The closure can be used in below-grade applications such as handholes or manholes, or can be mounted on a pole or wall. The closure can accept up to 20 two to six pair buried drop wires.

Wire Type	Size Range in Inches
Round Drops	0.28 - 0.47"
Flat Drops	0.19 x 0.38" - 0.27 x 0.50"

Note: Aerial flat drop wire can be accommodated in this closure with the use of the additional, optional Flat Drop Wire Grommet Kit.

DTerminator 2 terminal blocks are environmentally gel sealed terminal blocks that provide toolless connections for a wide range of applications. Inside the CST closure, connections can be made using 22 AWG to 26 AWG conductors without stripping the insulation from the conductors or requiring any special adapters. CommScope GelGuard sealant gel technology protects the terminal connections against corrosion.

2.0 Cautions

Use/follow all applicable safety equipment/practices for installation and operation including company, local, and NEC requirements.

Do not use with wire physically larger than 22 AWG.

3.0 Kit Components

- CST closure with 10-pair DTerminator 2 terminal blocks
- Hole plugs

4.0 Grounding the Closure with External Ground Lug

Before installing any drop wires in the closure, install a #6 copper ground wire on the external lug on the base of the closure, tightening the lug to 25-40 inch-pounds of torque. Ground the closure per local practice. (Figure 1)

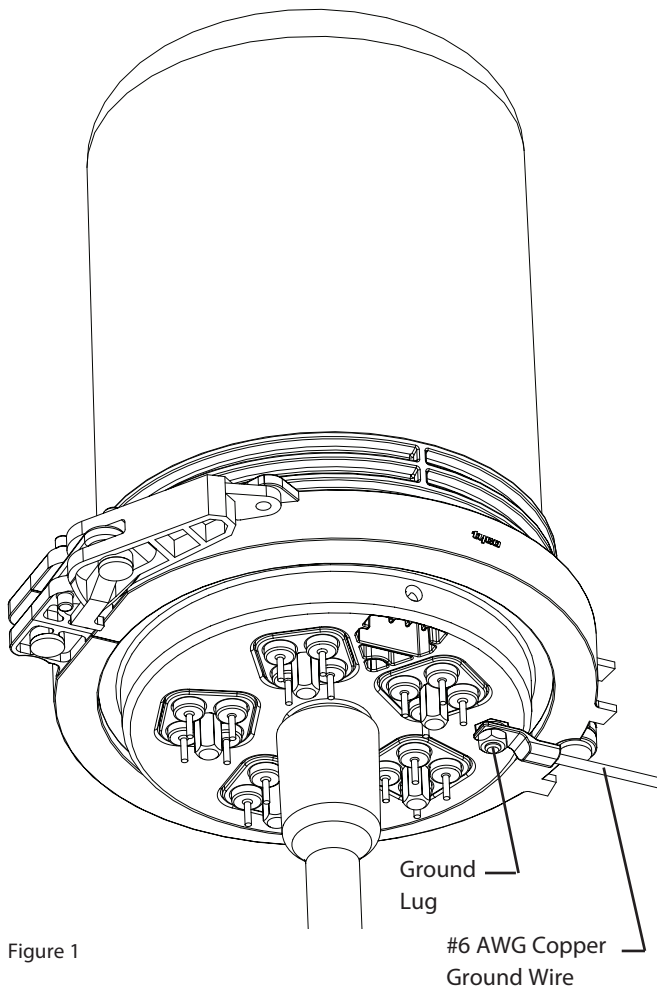


Figure 1

## 5.0 Splice Stub Wire

Splice the 10-pair stub to the main cable stub per locally approved practice. CommScope makes splice kits to connect, protect, and seal the conductors in virtually any application; contact your CommScope Sales Representative for details.

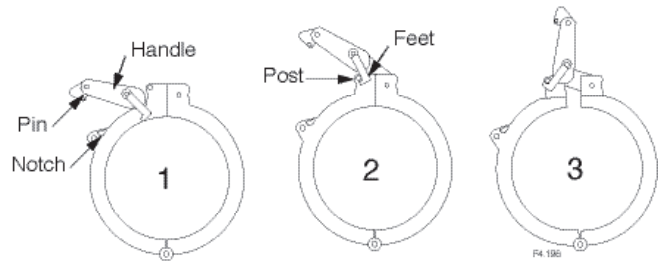


Figure 2

## 6.0 Drop Wire Installation

### 6.1 Remove the Closure Dome

1. Remove the dome-to-base clamp. Pull the clamp slightly to the side and lift the clamp handle, using the feet of the clamp to pry against the two posts to spread the clamp open. Open one side of the clamp all the way and pull it back on itself quickly to remove it from the dome and base. (Fig. 2)
2. Remove the dome from the base of the closure.

### 6.2 Install the Drop Wires

Important: Although this closure supports the use of 2-pair through 6-pair drop wires, a 2-pair drop and a 6-pair drop cannot be positioned beneath the same ground clamp because the clamp will not grip the drops correctly given the difference in diameters. Plan to keep drop cables with the same pair count on both sides of the ground clamp, so that the clamp can work correctly.

1. Using a 216 tool, loosen the compression bolt on the drop wire grommet until the bolt turns freely. (Figure 3)

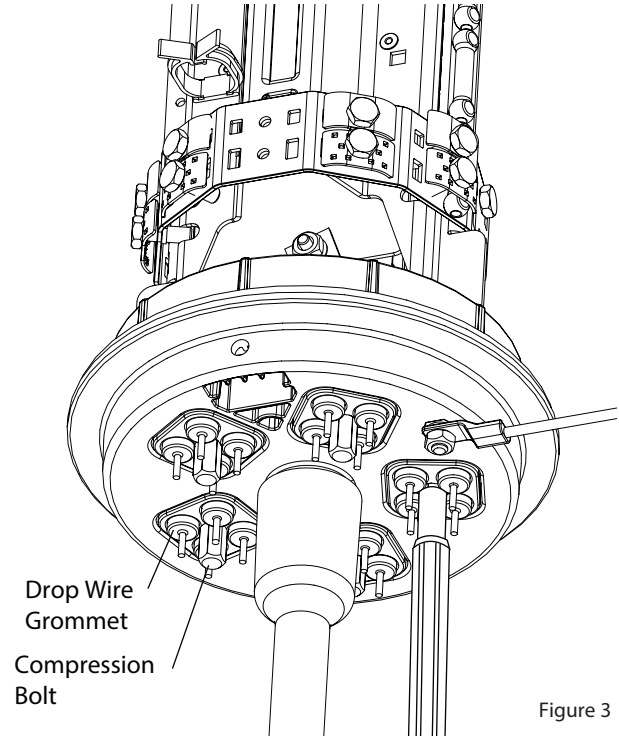


Figure 3

2. Pull downward on the stem on the bottom of the black grommet cap and cut off approximately 1/8" of the cap with snips. (Figure 4)

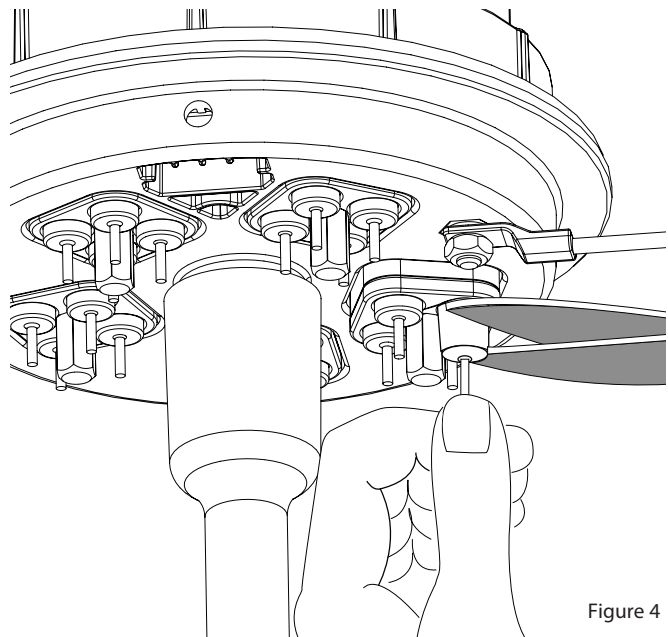


Figure 4

3. Clean at least three feet of the drop wire with a cloth to avoid getting dirt in the grommet, which might compromise the seal.

**Important:** Use pliers to reshape the cut end of the drop wire so that no sharp, exposed shield edges will cut or damage the grommet when the wire is inserted.

**Note:** If the cable is flattened or deformed, use pliers to restore it to a round shape where it will pass through the grommet.

**Note:** Verify that the drop wire insulation is clean and free of gouges, nicks, or deformities which might affect the seal.

4. Insert an appropriate length of drop wire through grommet and route it past the front of the ground clamp. (Figure 5)

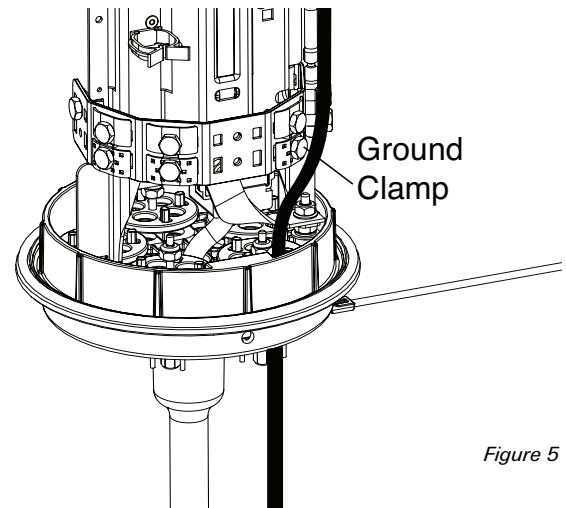


Figure 5

5. Prepare the drop cable, exposing 1" of shield and appropriate length of conductors. (Figure 6)

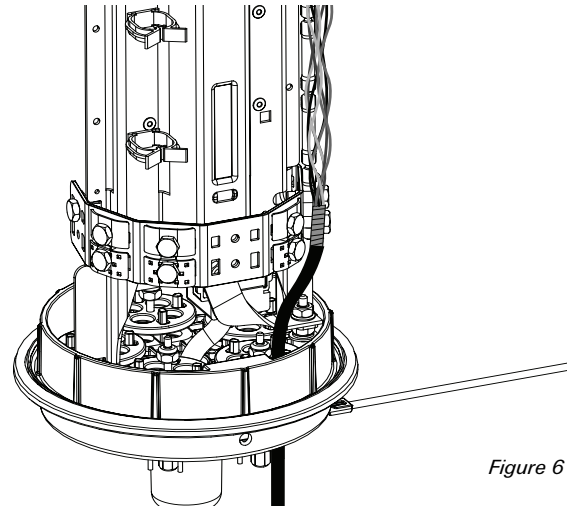


Figure 6

6. Use the 216 tool to loosen both bolts of the ground clamp so that the drop wire can be positioned underneath the ground clamp from the side. (Figure 7)
7. Position the drop cable so that the exposed shield is located under the top (solid) portion of the ground clamp, and the cable jacket is positioned under the bottom (perforated) portion of the ground clamp. (Figure 7) Add additional drops following steps 2-5 if necessary. Use a 216 tool to tighten both bolts on the ground clamp (25 in-lbs torque minimum) to secure the drop cable(s) in place.

**Note:** For flat drop wire which has no shield, position the jacket cutback even with the top of the ground clamp and tighten as directed in step 7.

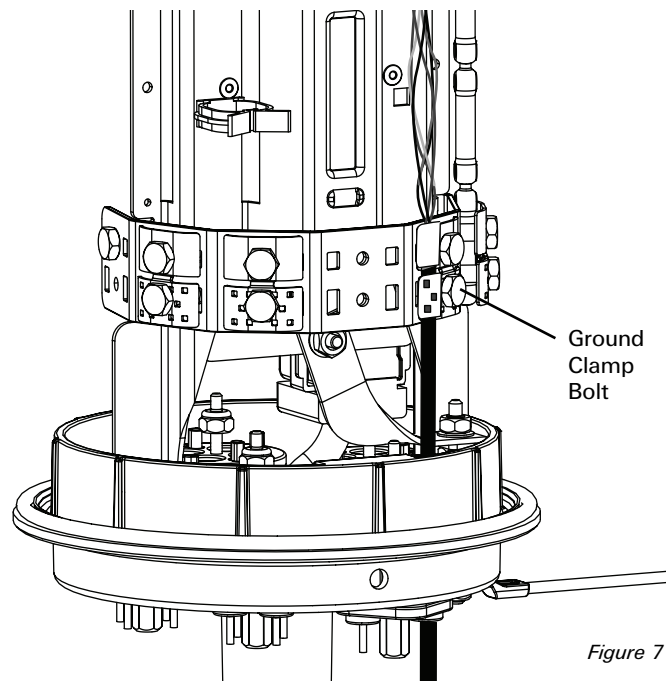


Figure 7

- After all drops are installed in the closure, tighten the compression bolts on all grommets until the bolts can no longer be turned using the 216 tool (25 in-lbs torque minimum). (Figure 8)

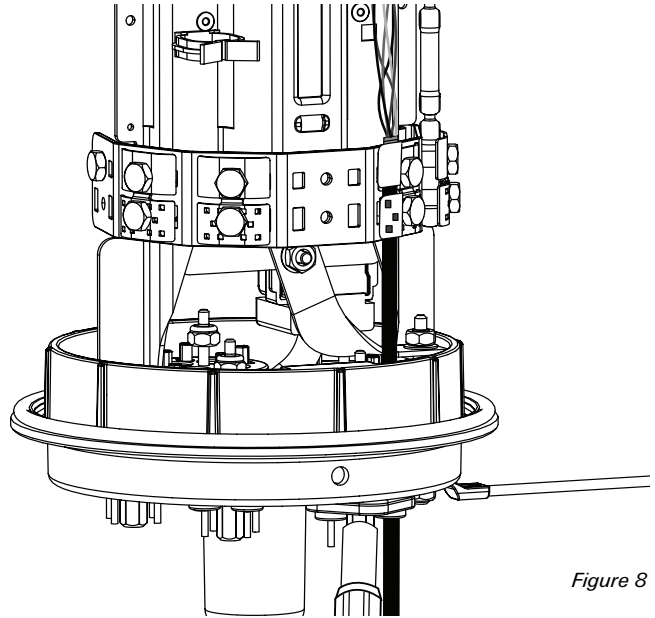


Figure 8

- Route the conductors through the routing rings on the back of the DTerminator 2 terminal block. (Figure 9)

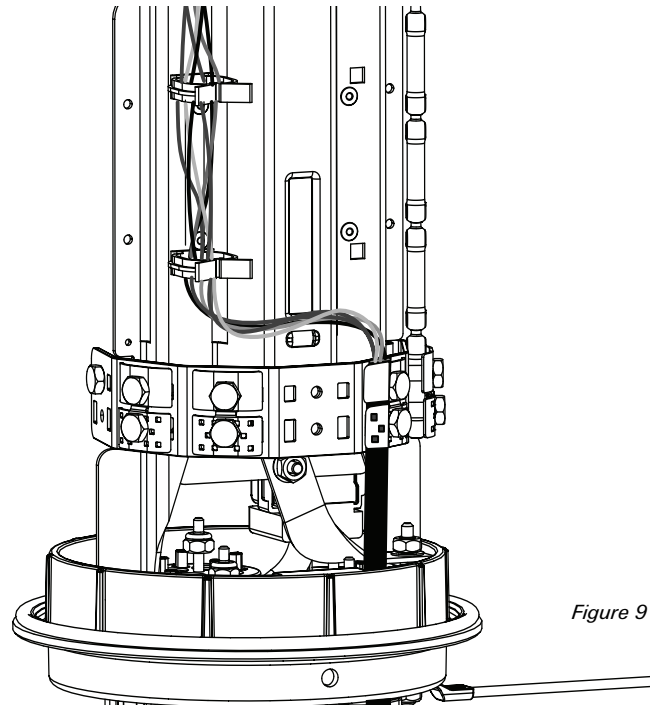


Figure 9

**Note:** If for any reason it is necessary to remove a drop cable from the closure, the port must be plugged with an orange, dumbbell-shaped hole plug. Orange hole plugs are stored in the ground clamps and should be saved and stored inside the closure for later use. The correct position of the orange hole plug is shown in Figure 10.

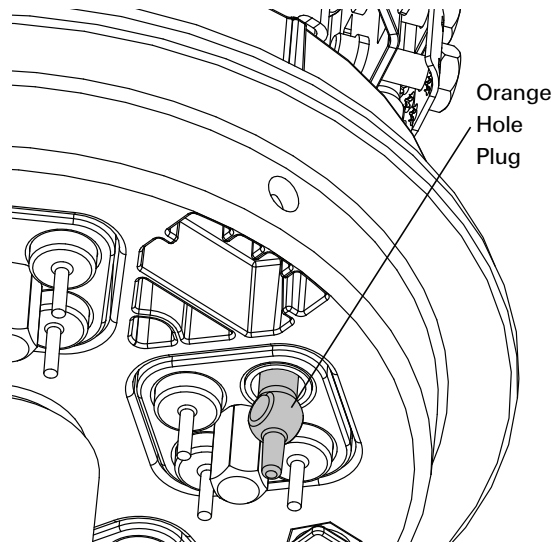


Figure 10

## 7. Drop Wire Termination

1. To install dropwire, back the driver module off until it clicks or bolt spins freely in the "up" position. (Fig. 10a)
2. Insert pair into wire entry port until it passes over the white or colored insert inside the module and stops. Hold conductors in place while tightening the driver module to the "down" position. (Fig. 10b)

Note: When modules are not in use, they should be returned to the "down" position.

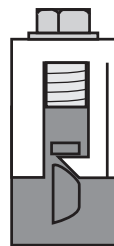


Figure 10a  
"Up position"



Figure 10b  
"Down position"

## 8. Testing

1. To disconnect or remove a drop wire, back driver module off until it clicks or bolt spins freely in the "up" position. (Fig. 10a) Remove conductors. Return module to the "down" position (Fig. 10b) and test at test port to the C.O. Trim drop wire ends 1/2" before reinstalling.

Important: Driver module must be in the "down" position to test.

2. The test port in the top of each driver module uses CommScope GelGuard sealant technology for environmental protection. To test to the C.O. or to access a talk pair, insert the test clips into the test ports with the driver in the "down" position. (Fig. 12)

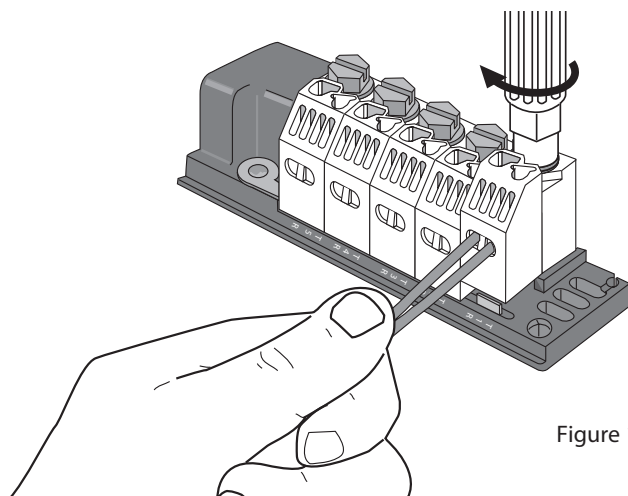


Figure 11

## 9. Protection and Driver Module Replacement

Note: Before installing a protected module, make sure the terminal is grounded.

1. Attach the ground wire to the block with the supplied nut, and ground the terminal per locally approved practice.
2. DTerminator 2 PMP protected terminals have driver modules with environmentally sealed circuit protectors. To restore circuit protection replace the protected module. To add circuit protection to the PMX upgradable terminals, install a protected driver module after removing a white unprotected module.
3. To replace a driver module, back driver module off until it clicks or spins freely in the "up" position. Remove the drop wire from the wire connection port. Lift the module slowly off of the terminal block and discard. (Fig. 13) Align the new driver module and push down on it until it clicks into the "up" position. Trim and reinstall drop wire, then tighten module until it bottoms out in the "down" position.

Note: Replacement protected and unprotected driver modules and special circuit markers can be ordered separately. Contact your local CommScope customer service representative.

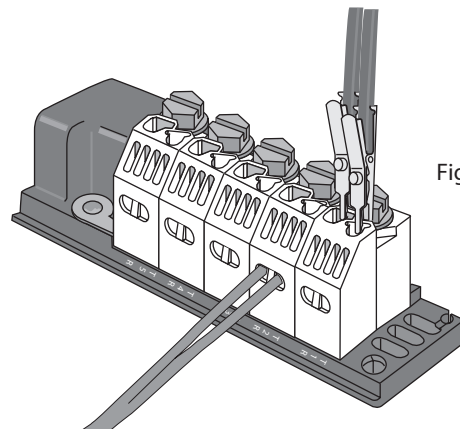


Figure 12

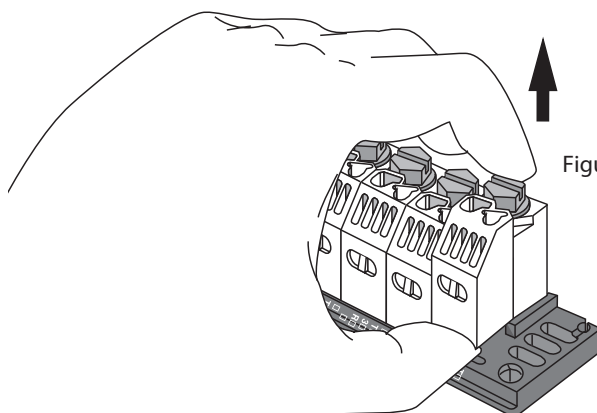


Figure 13

## 10.0 Reinstall the Closure Dome

1. Check to make sure the "O" ring is positioned properly on the rim of the base.
2. Install the dome onto the base. The dome should sit flush on the base.
3. Install clamp around dome/base interface. Use the feet of the clamp handle to close the gap in the clamp. (Fig. 14)
4. A security lock or tie-wrap may be inserted through the round holes in the handle and clamp to lock the closure.

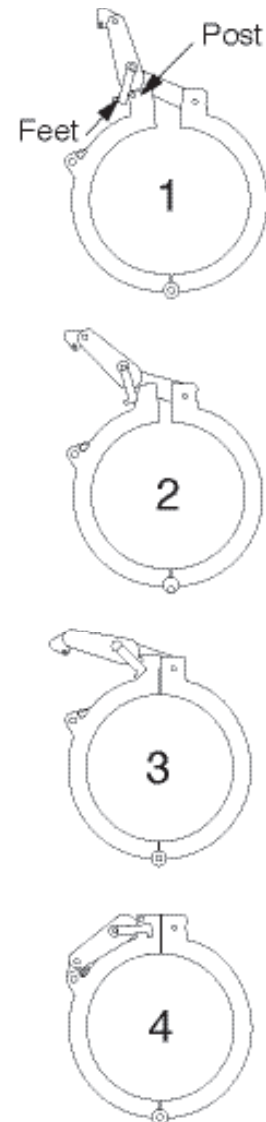


Figure 14

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