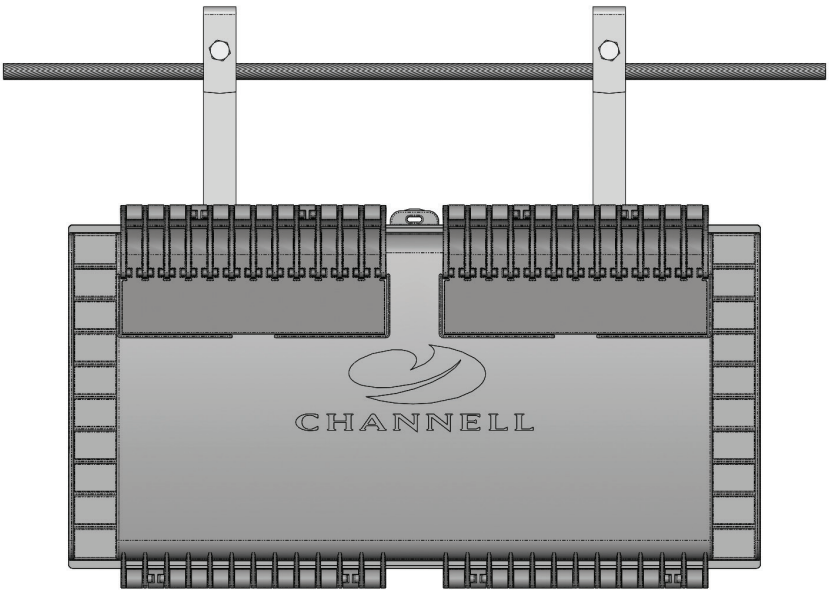
# INSTALLATION INSTRUCTIONS

YELLOWJACKET®

## YellowJacket® Aerial Terminal

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## I. Product Introduction

This installation manual is specifically for the Yellow Jacket Aerial Terminal. Channell's Yellow Jacket Aerial Terminal is a robust, multiport solution for above ground fiber optic deployments. The Yellow Jacket offers multiple splitter configurations making it the perfect solution to accommodate for both centralized and distributed split networks for Fiber to the Home builds.

Yellow Jacket provides extreme environmental protection in the harshest conditions and facilitates quick connection of up to 16 drop cables each with individual strain relief.

Gaining entry to the Yellow Jacket terminal is quick and easy through its rapid release clamps. The terminal is designed to mount effortlessly on a strand (aerial mounting brackets included) and can accommodate four (4) incoming cable entry ports in either direction for maximum flexibility.

The Yellow Jacket allows for ample slack storage and is compatible with Channell's Universal Splice Trays for a maximum single fiber splice capacity up to 144F.

## II. Tools Recommended

- Measuring Tape
- Electrician's Scissors – "Snips"
- Sheath removal tool
- Can Wrench or 7/16"(11mm) and 3/8"(9mm) Nut Drivers
- Buffer tube mid-sheath tool
- Marking pen
- Phillips Screwdriver (#2)
- Company approved fiber cleaning chemicals, if needed
- Vinyl tape
- 8" Cable Ties, black

## III. Main Cable Installation

This instruction will cover the installation practice for the Channell Commercial Yellow Jacket Inline Terminal Closure. The maximum recommended installed cable size is 144F and below.

### A. Identifying sheath opening locations on inline fiber cable loop

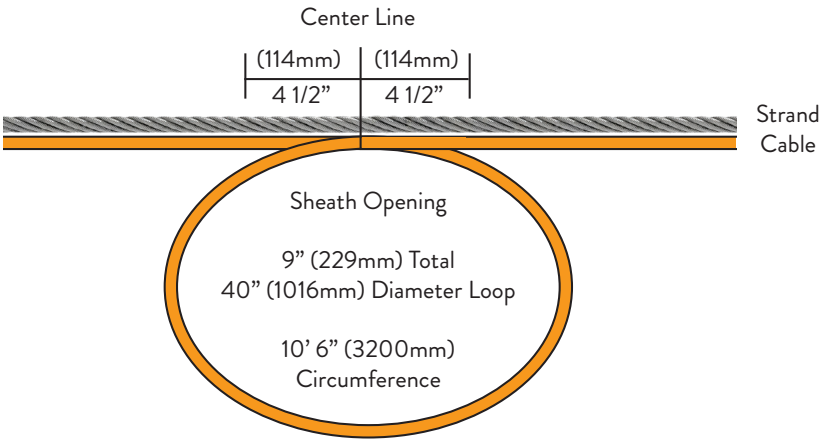



FIGURE 1

### B. Sheath Removal

1. Starting with a loop of fiber cable that is 40" (1016mm) in diameter (10.5' {3200mm} for placement), locate the center of the top of the loop where the cable crosses over itself.
2. From this center point, mark the strand to help align enclosure placement which will be completed later [Figure 5]. Measure to the left and right of center 4 ½" (114mm) and mark the cable for sheath removal. Total sheath removal should be about 126" (3200mm). [Figure 1]
3. Per company standards, remove all sheath material (and shield, if applicable) from the cable between the two marks just made.

### C. Bonding and Grounding of Cable

1. When bonding the cable, make sure to install approved bonding clamp per company standard.

## D. Cable Installation

### *i. Cable Retention Clamps*

1. Once sheath and shield have been removed, install cable into Cable Retention Clamps [Figure 2]. They can be found in the bag of parts under the Drop Door [Figure 3a]. ***See page 13 for complete list.***

FIGURE 2

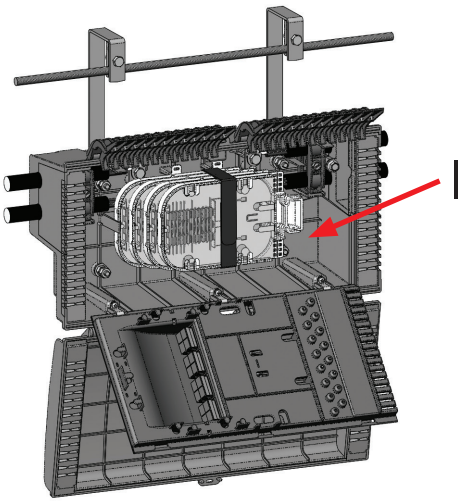


FIGURE 3a

2. The sheath of the cable should extend beyond the interior of the clamp 1" (25mm) and the CTM should extend beyond the interior of the clamp 3" (76mm).

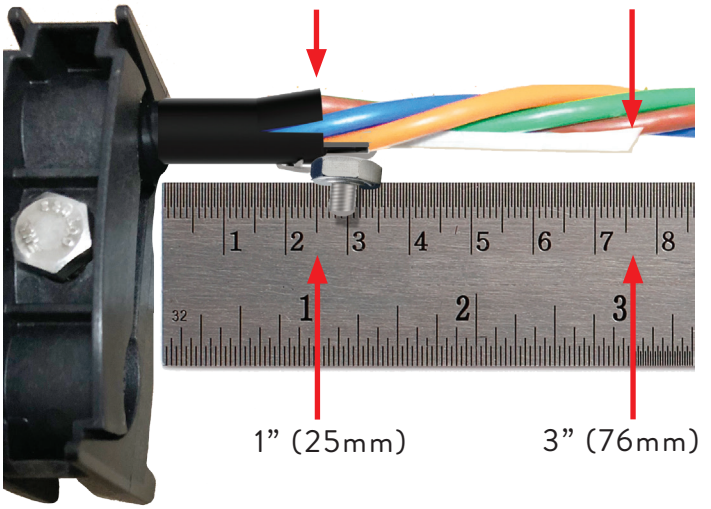



FIGURE 3b

*ii. Hanging of Closure*

1. Secure the Yellow Jacket Aerial Terminal on the strand [Figure 4] using the strand clamps attached to the enclosure.

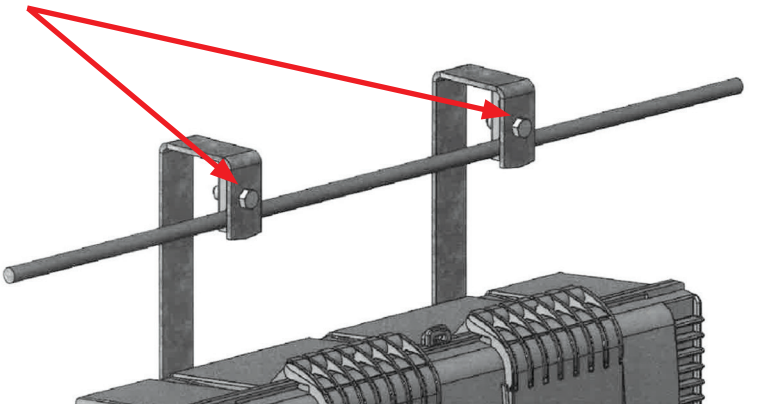


FIGURE 4

2. The center of the enclosure should line up with the mark made on the strand during cable prep and sheath removal [Figure 5].

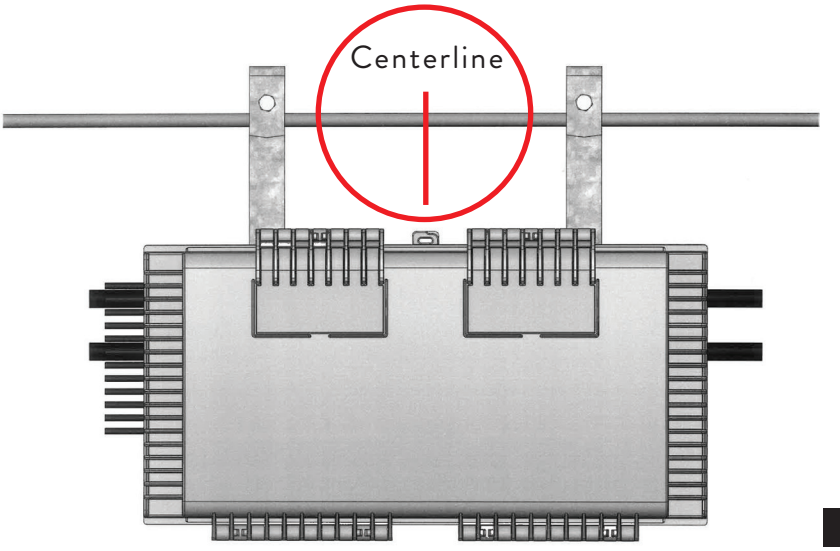



FIGURE 5

### *iii. Central Strength Member Tie Down*

1. Install the central strength member under the tie down clamp [Figure 6] with the 3/8" (9mm) end of a can wrench or a 3/8" (9mm) nut driver as shown. The end of the strength member should stop against the top of the tie down clamp.
2. Lay the prepared cable into the designated port and line up the cable retention clamp into the slot

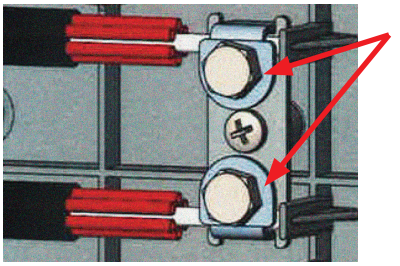



FIGURE 6

### *iv. Cable End-Seal Plate*

1. Remove the cable end-seal plate [Figure 7] on the end of the enclosure with the 7/16" (11mm) end of a can wrench or a 7/16" (11mm) nut driver [Figure 8]. ***(The top half of the cable grommet should stay with the end-seal and the bottom half will remain in place.)***
2. Install the end-seal plate back onto the enclosure and secure with a can wrench.

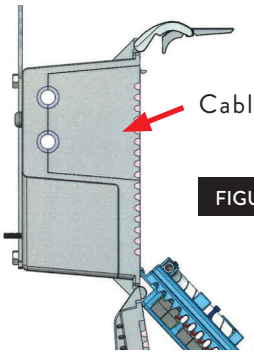



FIGURE 7

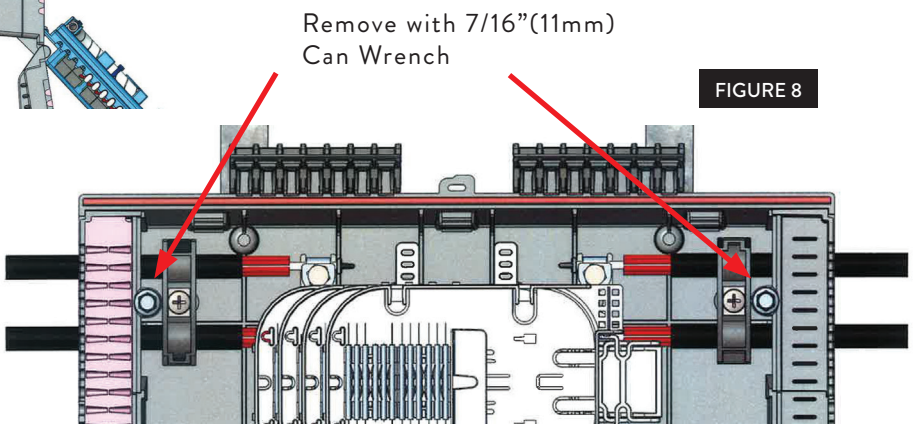



FIGURE 8

## E. Buffer Tube Routing

1. Per engineering, determine the buffer tube(s) needed for this location and unwrap them from the rest of the buffer tubes

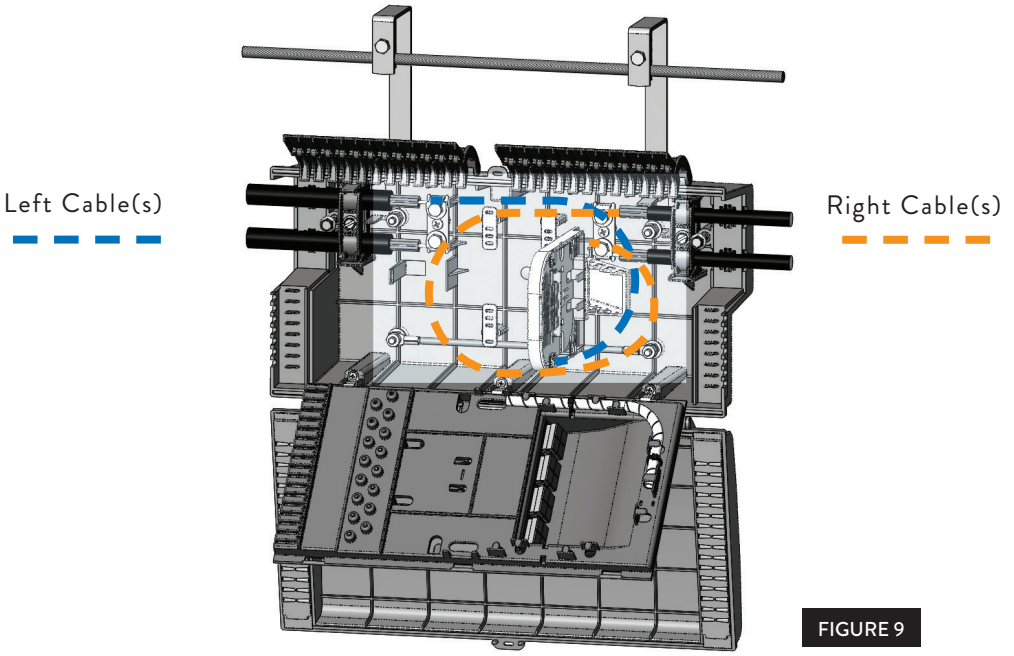



FIGURE 9

2. Take the buffer tube that is from the cable(s) on the left [Figure 9 (Blue dashed line)] and route it across the top of the enclosure clockwise and to the bottom of the splice tray. This measurement should be 16” (406mm) from sheath opening.
3. The buffer tube from the cable(s) on the right [Figure 9 (Orange dotted line)] will route across the top counterclockwise and cut through the middle of the enclosure (under the splice tray) and to the top of the splice tray. This should be 21” (533mm) from sheath opening.
4. Mark both buffer tubes at their appropriate length with a marking pen. Again, 16” (406mm) from the left cable(s) and 21” (533mm) from the right cable(s).
5. Using approved company standards and tools remove the buffer tube between your two marks and expose the fiber.
6. Clean the fiber as needed before placing in splice tray.
7. Store the fiber in the tray and splice according to engineering.
8. The remaining buffer tubes not used at this location should wrap up around the perimeter of the enclosure and bundled together with cable ties and secured to the tie down supports inside of the enclosure.

## IV. Drop Cable Installation and Splicing

- The drop ports on the interior door of the closure will accommodate up to 16 (5mm OD max) round or flat drop cables for distribution.

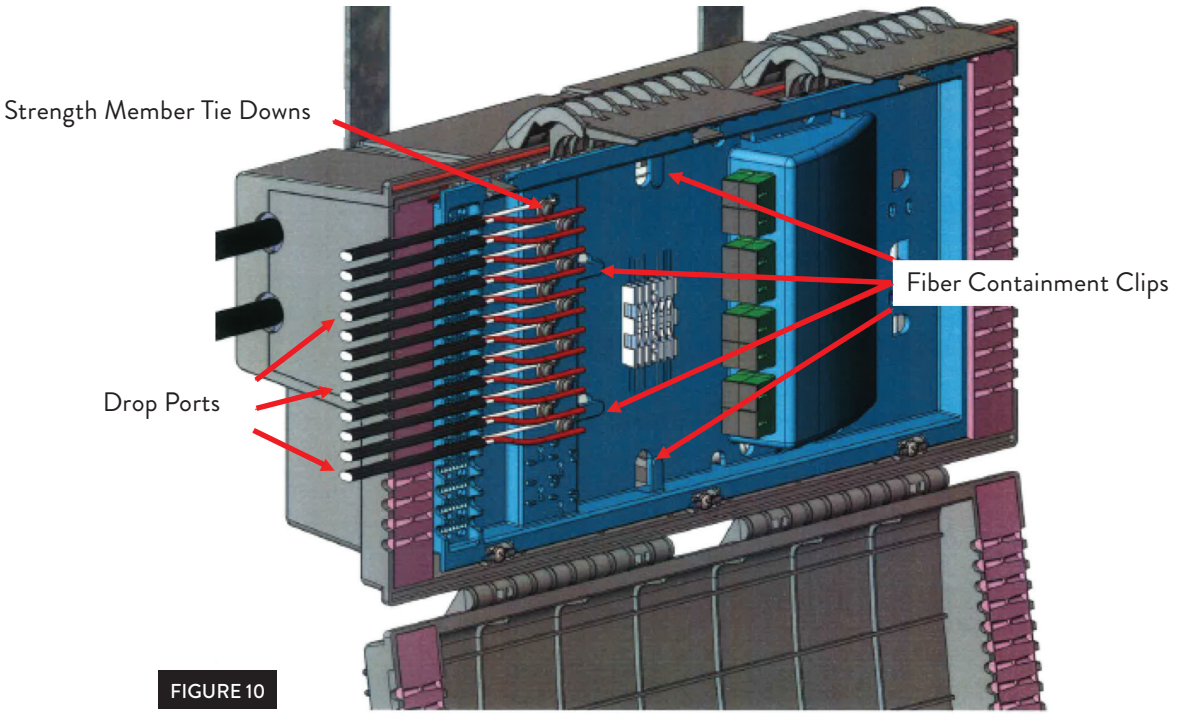


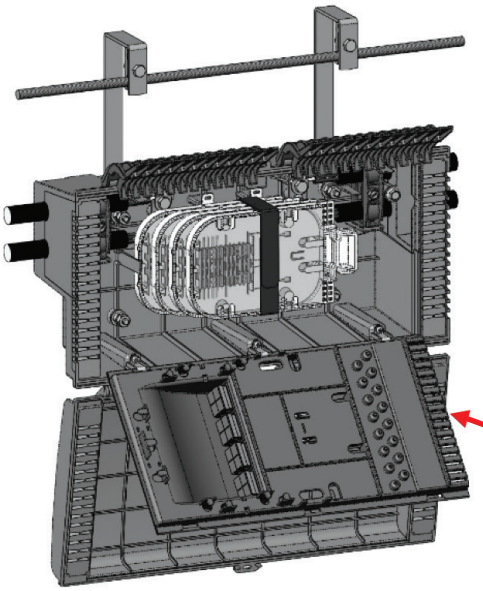

FIGURE 10

1. With the inner adapter panel locked in place covering the splice tray and cable storage, prepare your drop cables for installation.
2. Remove 36" (914mm) of the sheath and cut the strength member to 2" (51mm). Depending on the slot used for the drop cable the strength member will be trimmed down to go under the head of the screw but butt up against the stop beyond the tie down screw.
3. If flat cable, the cable will lay vertically in the slots. [Figure 10]
4. The sheath of the drop cable should extend inside of the enclosure beyond the rubber seal. The amount of sheath which protrudes into the closure will vary depending upon the drop's position.
5. The buffer tube, if applicable, will be removed ½"(12.7mm) beyond the strength member tie down screw using company approved practices.
6. Using the fiber containment clips route the fiber around the splice chip provided and splice according to engineering.

## V. Drop Door Reversal

- In the case where the drop cables will enter from the opposite direction than how the enclosure is configured, the Drop Door can be reversed. [Figure 11-12]

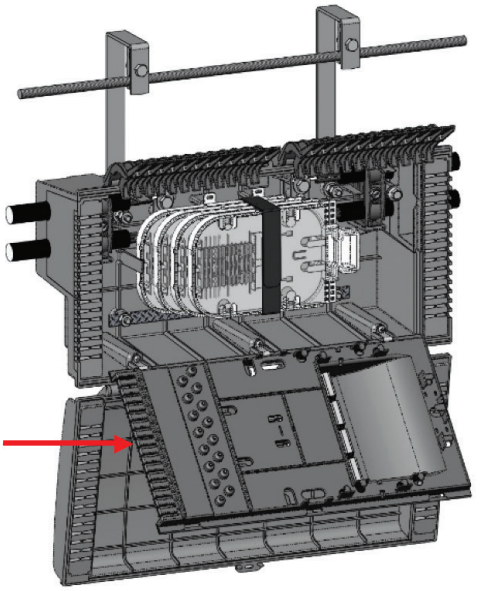
Right Side Orientation



Drop Ports on Right Side

FIGURE 11

Left Side Orientation



Drop Ports on Left Side

FIGURE 12

1. To reverse the orientation of the Drop Door you must remove the three hinges that hold the door in place and switch sides that is currently holding the clips that keep the door closed. [Figure 13]

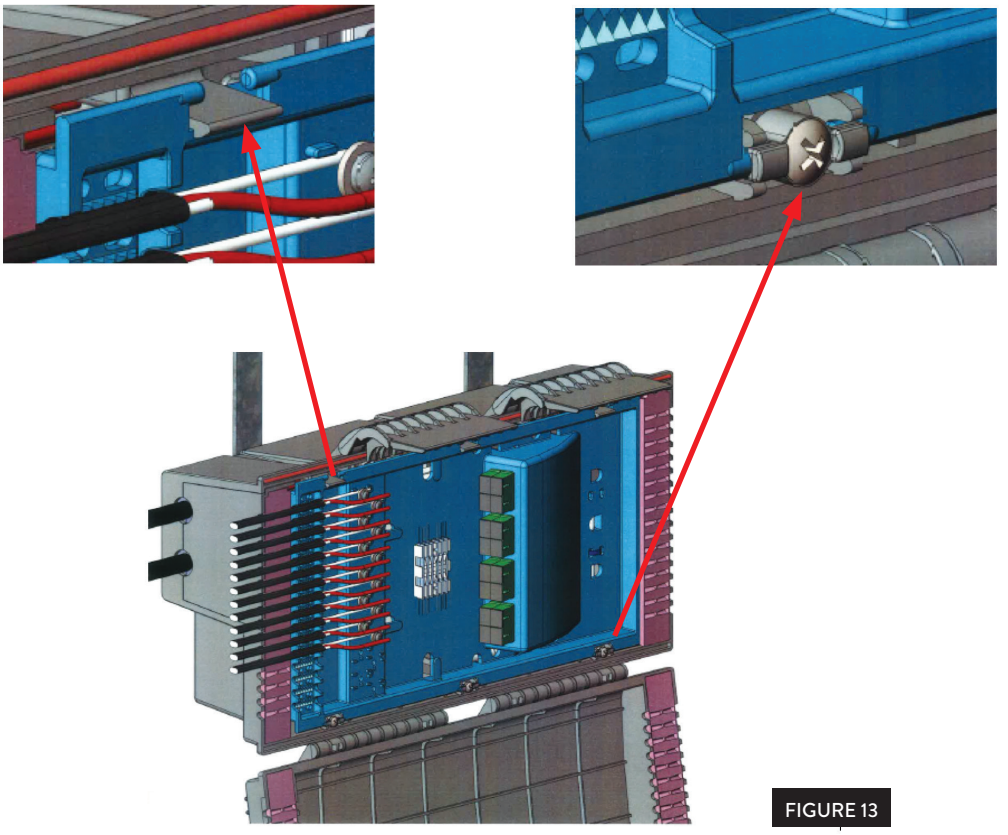


FIGURE 13

2. On the back side of the Drop Door there is a piece of spiral wrap that contains the outputs of the splitters from the splice tray. You will need to unhook the spiral wrap from the clips that are holding it in place and switch the spiral wrap to the other side of the Drop Door and hook it back into the holders on the Drop Door. [Figure 14]

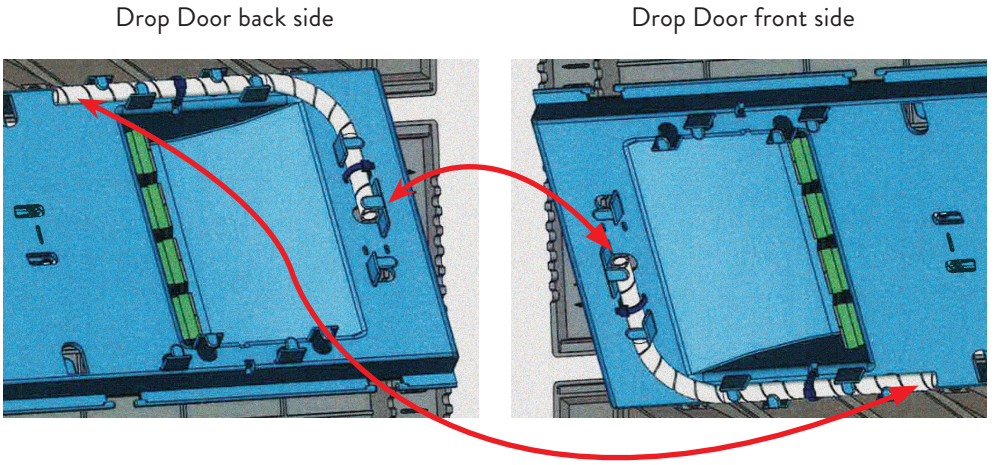



FIGURE 14

## VI. Kit Bag

| DESCRIPTION | QUANTITY |
|---|---|
| 4” Cable Ties | 4 |
| Sheath Clamp Assemblies | 2 |
| Mass Fusion Splice Chip | 1 |

## VII. Accessory Kits

| PART # | KIT | DESCRIPTION | QUANTITY |
|---|---|---|---|
| FIBER1600001PK | Next Generation Splice Tray Kit | Hinging splice trays for added splice capacity with two 6 position single fusion splice chips (24 splice capacity). Transportation tubes, 4" cable ties and spare mass fusion splice chips included. | 24 per kit |
| FIBER1600002PK | Next Generation Single Fusion Splice Chip Kit | Six position single fusion splice chips (12 splice capacity) for the next generation fiber splice tray. | 48 per kit |
| FIBER1600003PK | Next Generation Mass Fusion Splice Chip Kit | Four position mass fusion splice chips (48 splice capacity) for the next generation fiber splice tray. | 48 per kit |
| FIBER1600004PK | Next Generation Splitter Holder Kit | Three position PLC splitter holder for the next generation fiber splice tray. | 48 per kit |
| FIBER1600005BCPK | Bond Clamps | Shield bond clamps for bonding armored cable. | 36 per kit |
| FIBER1600006BSPK | Cable Bond Straps, 6" | #6 AWG bond straps, 6" long for bonding armored cable in the Yellow Jacket Inline Closure. | 36 per kit |
| FIBERYJ1600007PK | Sheath Clamp Assemblies | Yellow Jacket Inline Closure sheath clamp assemblies. | 24 per kit |
| FIBERYJ1600008PK | Drop Seal Kit | Set of drop seals, 16 drop capacity, for the Yellow Jacket Inline Closure. | 24 per kit |
| FIBERYJ1600009PK | Main Cable Seal Kit | Set of main cable seals, 2 cable capacity, for the Yellow Jacket Inline Closure. | 24 per kit |
| | Pole Mount Bracket | Available Fall 2020 | |
| SPL1X4160002064PK | 1x4 Splitter, no connectors for splicing | 1x4 PLC splitters, tray splitter holders, 2m long 250 micron fiber leads for splicing pigtails. | 12 per kit |
| SPL1X8160002065PK | 1x8 Splitter, no connectors for splicing | 1x8 PLC splitters, tray splitter holders, 2m long 250 micron fiber leads for splicing pigtails. | 12 per kit |
| SPL1X4YJ16000SCPK | 1x4 Splitter, connectorized SC/APC | 1x4 PLC splitters, tray splitter holder, 1m bare input for splicing, 1m SC/APC connectorized outputs for mounting in the Yellow Jacket Inline closure. | 12 per kit |
| SPL1X8YJ16000SCPK | 1x8 Splitter, connectorized SC/APC | 1x8 PLC splitters, tray splitter holder, 1m bare input for splicing, 1m SC/APC connectorized outputs for mounting in the Yellow Jacket Inline closure. | 12 per kit |
| PIG06005797-50 | Pigtails, SC/APC | Pigtails, SC/APC connector, 900 micron white tail, 2m long. | 50 per kit |

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