

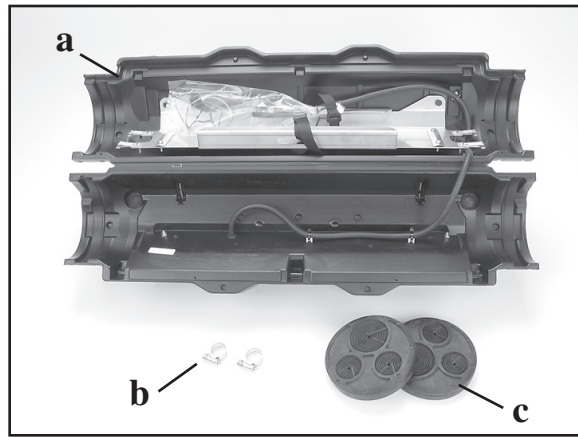
3M

SLiC™ Fiber Aerial Terminal 530-DF

Instructions

1.0 Kit Contents

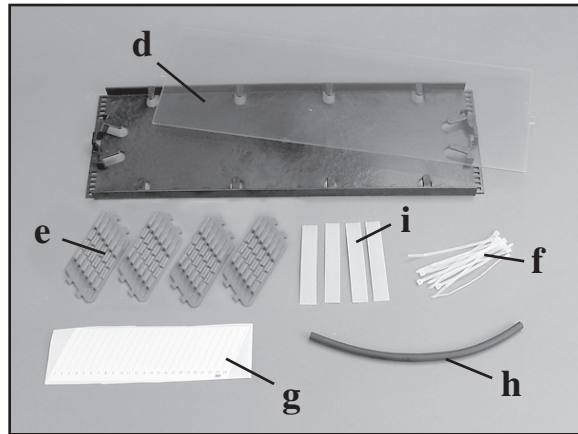
- a. Closure body and terminal box assembly
 - Tray strap (1)
 - Cable management tray frame (1)
 - Strength member retainers (2)
- b. Hose clamps (2)
- c. End seals (2)



3M™ Splice Tray Kit 2527

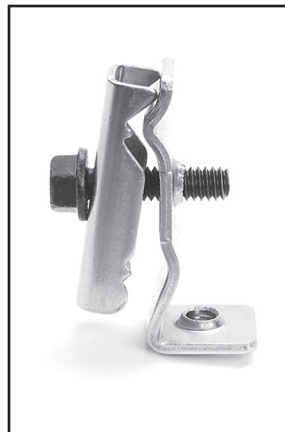
- d. Tray cover (1)
- e. Adhesive backed splice holder (4)
- f. Cable ties (12)
- g. Log label (1)
- h. Fiber retention grommet (6 in.)
- i. 3M™ Dual Lock™ Fastener (4)

Note: Visually inspect all components. If any component is missing or appears damaged, do not install and call 3M customer service at 1-800-426-8688 for a replacement product.

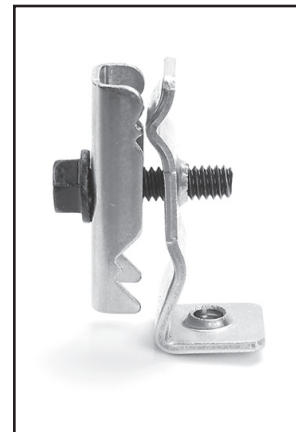


2.0 Hanging Terminal

- 2.1 The aerial hanger bracket is designed to fit on different size strands.



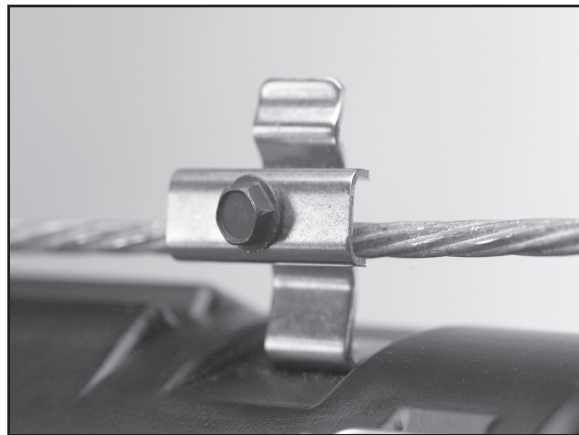
For small strand diameters



For large strand diameters

MILLIMETERS	10	15	20
RANGE	A	B	C
INCHES	.4	.6	.8

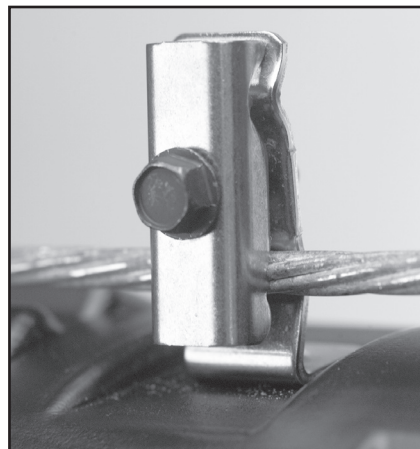
- 2.2 Loosen bolt and hang closure on strand by inserting the strand **below** the bolt.



- 2.3 Rotate clamp until correct clamp groove is over the strand and tighten bolt to 40 to 45 in-lbs.

Note: Additional strand mounting hardware is available.

- 3M™ Offset Aerial Hanger Bracket AC-HB1
- 3M™ 2 in. Tall Aerial Hanger Bracket AC-HB2
- 3M™ Offset Hanger Bracket AC-HB4



3.0 Cable Installation

(for taut sheath applications see Section 9)

- 3.1 Open closure by opening latches and unlocking them from plastic catches.

Tip: Grip latches on their sides as shown rather than trying to pry them from the ends.

- 3.2 Remove 5' to 9' of cable sheath.

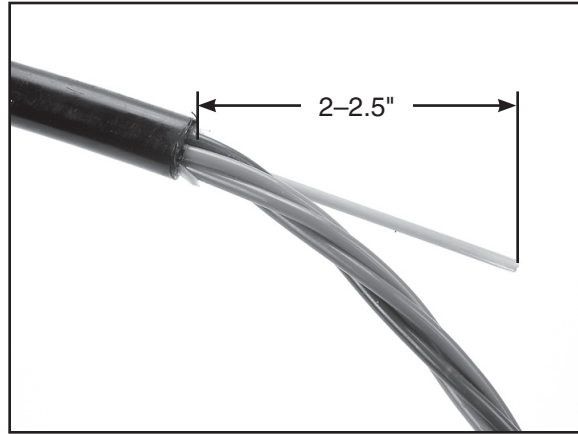
- 3.3 Clean cable if grease is present. 3M™ Scotchcast™ Filled Cable Cleaning Kit 4414 or 3M™ Scotchcast™ Service Wire Cleaning Kit 4415 is recommended.

Note: Carefully follow safety, health and environmental information given of product label or the MSDS sheet for the cleaner.

- 3.4 Unwind buffer tubes down to central strength member of the cable.



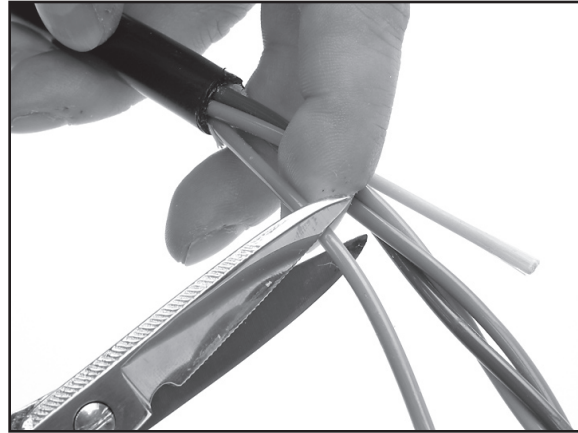
3.5 Cut the central strength member, leaving 2–2.5" of strength member on each cable end.



3.6 When deploying an express cable configuration, cut off buffer tube or ribbon to be spliced as close to the field side of the cable loop as possible.

3.7 Carefully remove buffer tube or ribbon to be spliced.

3.8 Cable tie remaining buffer tubes or ribbon together for added strength and ease of management.

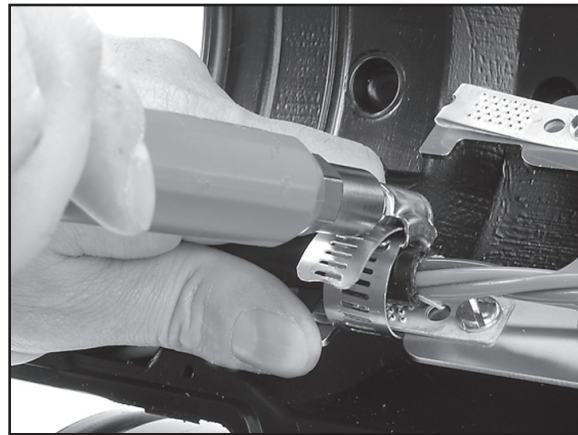


3.9 For all-dielectric cables, attach cable(s) to cable management tray frame using hose clamp(s) provided. Using can wrench, tighten hose clamp to approximately 25 to 30 in-lbs.

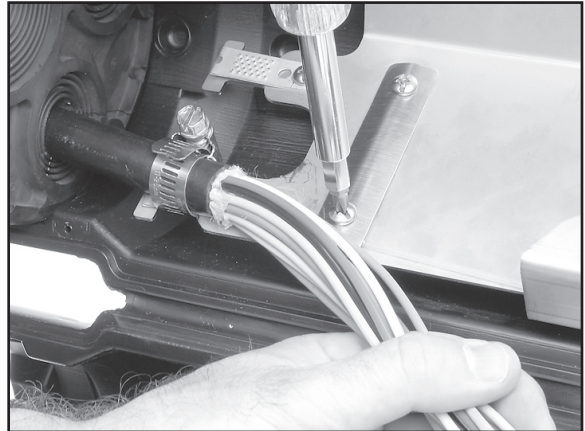
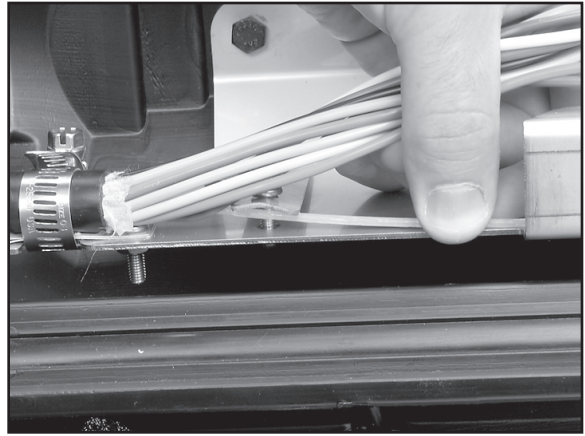
Note: When attaching cable(s) to tray frame, insure that a min. .25 in. of cable jacket is left exposed past the hose clamp.

Note: If cable is shielded, you must install a 3M™ Shield Bond Connector 4460D-FO and use 3M™ Grounding Braid 25T with eyelets to electrically connect to the hanging bracket hardware.

Note: Frame is designed for either butt or inline configuration.

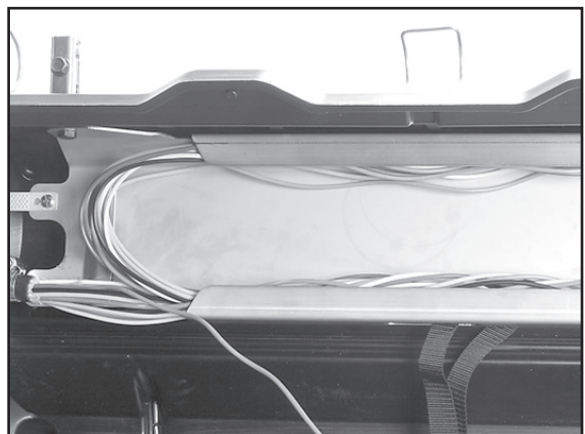
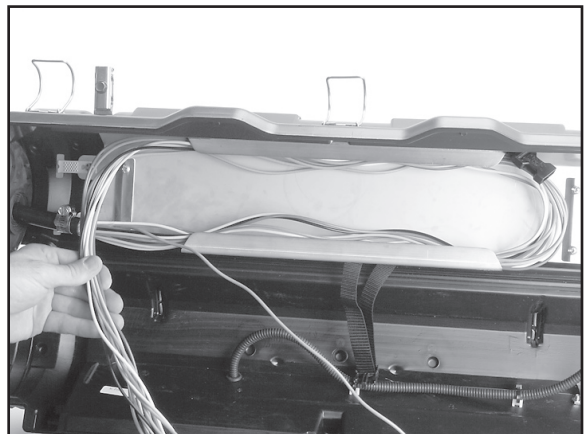


3.10 Position central strength member(s) under CSM retainer(s) and tighten screws to approximately 25 to 30 in-lbs.



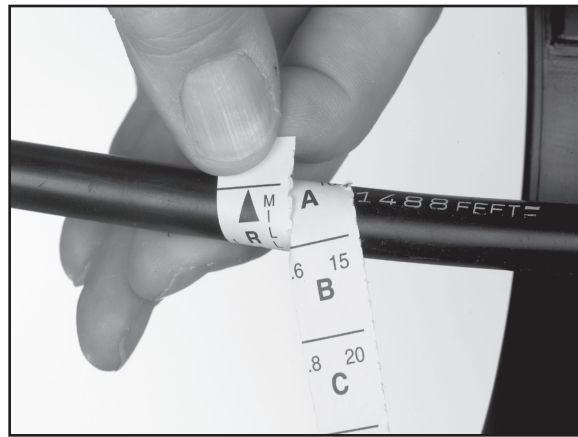
3.11 Arrange slack coil and slide inside cable management tray frame.

Note: Do not exceed minimum cable bend radius as prescribed by cable manufacturer.

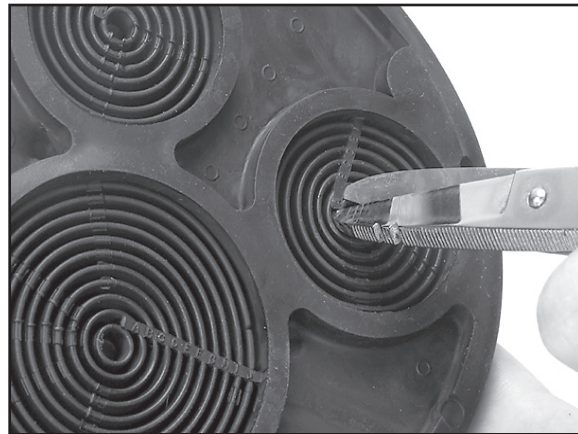


4.0 End Seal Installation

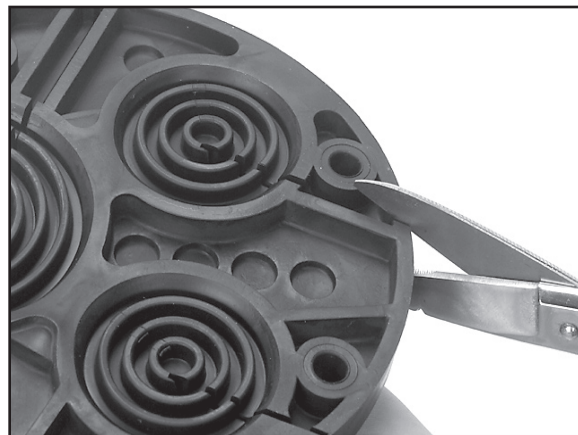
- 4.1 With cable(s) securely clamped in place, install end seals, routing cable(s) through small ports.
- 4.2 Use the guide provided on the bottom of page 2 to select range to cut end seal.



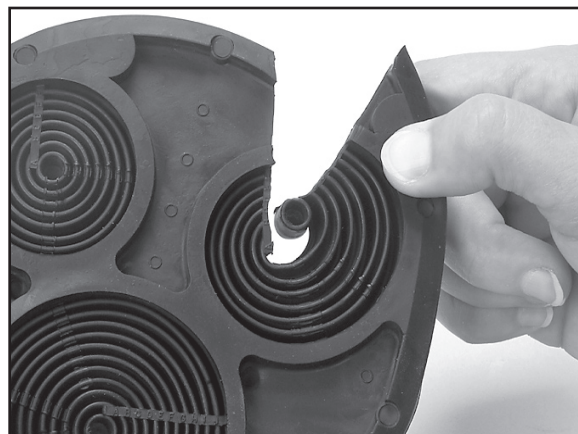
- 4.3 Unfold end seal halves.
- 4.4 On selected end seal port, puncture and cut through range letter on logo side of each seal half.



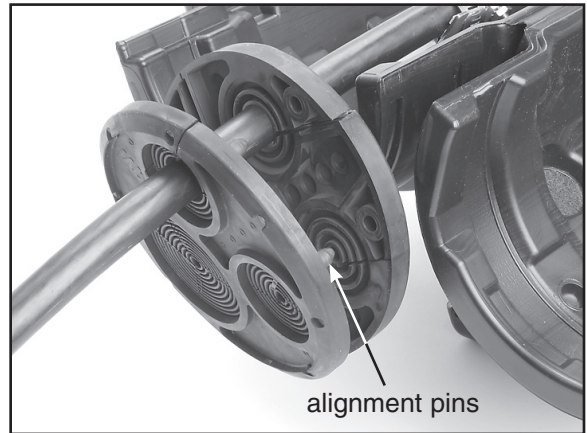
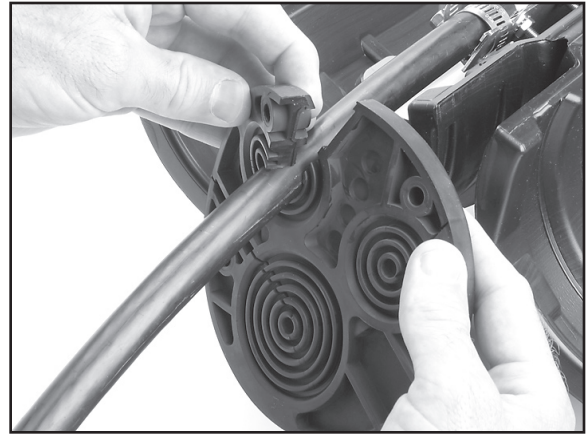
- 4.5 Cut end seal from outside edge to install on existing cable.



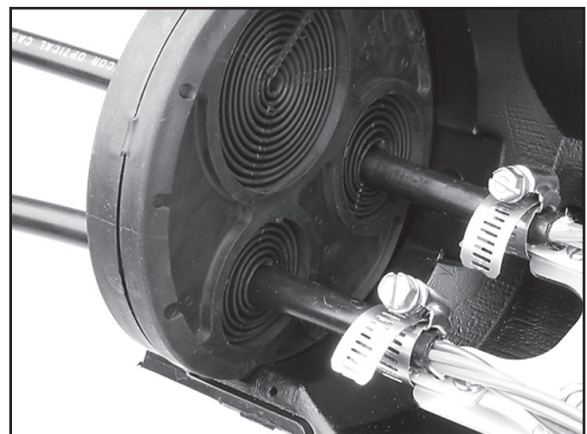
- 4.6 Tear out the selected ring.



- 4.7 Install end seal on cable(s), just outside the closure end and lock alignment pins in place.



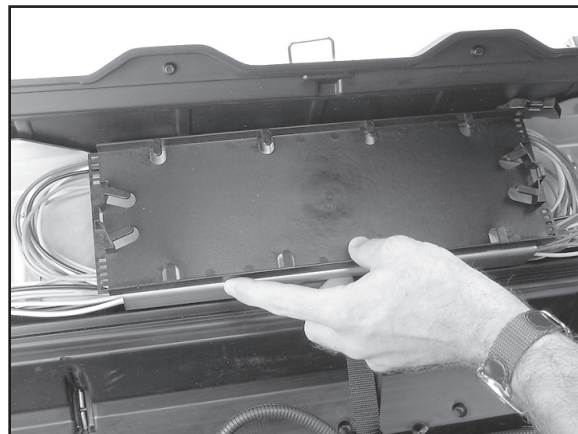
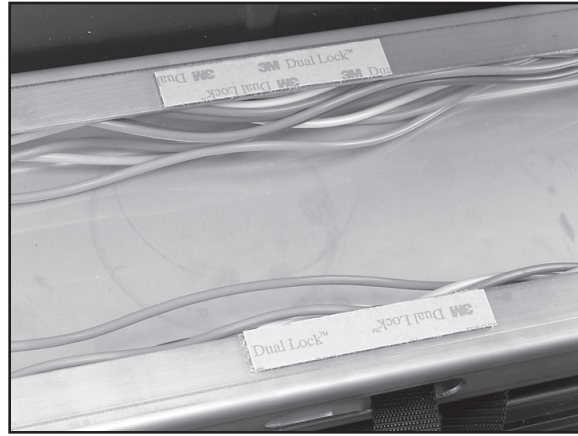
- 4.8 Slide end seal into place and seat into molded pocket.



5.0 Tray Installation

- 5.1 Place the pieces of 3M™ Dual Lock™ Material face to face and snap together.
- 5.2 Remove backing from one side and center on the upper and lower lips of the cable management tray frame. The Dual Lock material edge should be aligned with inside edge of frame as shown.
- 5.3 Remove the backing from the top of the Dual Lock material, position fiber tray over adhesive and press down firmly. For non-taut sheath applications tray should be centered on cable management tray frame. (For taut sheath application location see section 9).

Note: *Dual Lock adhesive should be allowed to set for one minute prior to attempting tray removal.*



6.0 Fiber Management Inside Tray

- 6.1 Remove adhesive backing and position splice holders on tray.

Note: *Positioning of splice holders should be such that a minimum of 1.5 in. bend radius is maintained for each fiber to be spliced.*

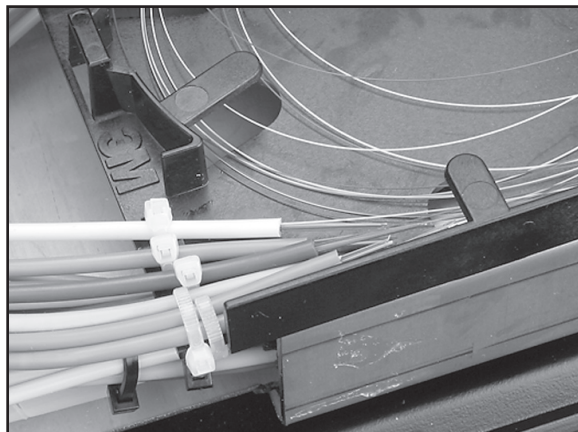
Note: *In a dirty environment an alcohol wipe may be used to clean tray surface for better adhesion.*

Note: *Carefully follow safety, health and environmental information given of product label or the MSDS sheet for the cleaner.*

6.2 Route buffer tube, ribbon or corrugated tubing to desired tray corner.

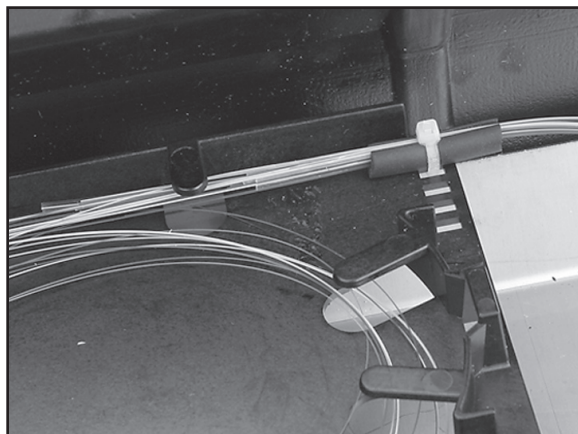
Note: *Do not exceed minimum 1.5 in. bend radius during routing process.*

6.3 Secure loose buffer tube or corrugated tubing to tray using the supplied cable ties.



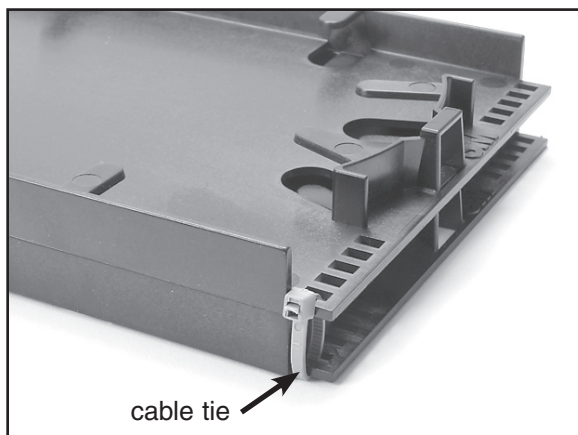
6.4 Place ribbon fiber into 1 to 1.5 in. of fiber retention grommet (cut segments as needed from supplied length) and secure assembly into tray using supplied cable ties. (A maximum of 6 ribbons can be loaded into each retention grommet segment)

Note: *Do NOT use pliers to tighten cable ties to tray. Cable ties should be hand tightened such that ribbon or buffer tube are immobilized. Over tightening can cause damage to buffer tube or ribbon*



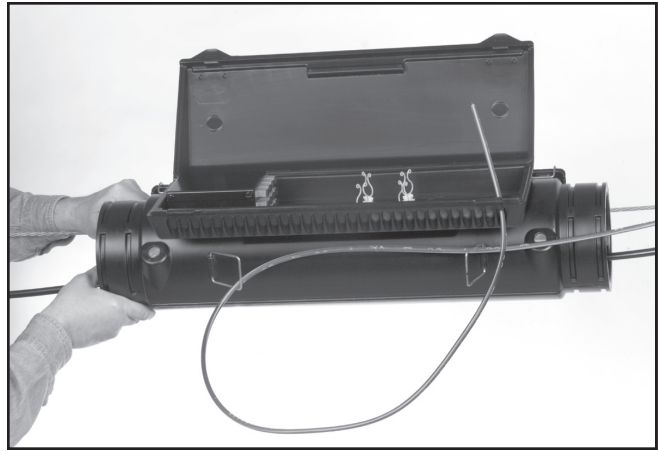
6.5 Splice fiber and place sleeves into splice holders.

Note: *When splicing multiple trays, loosely tie upper corners of trays together using cable ties as hinges, as shown.*



7.0 Field Terminated Drop Installation

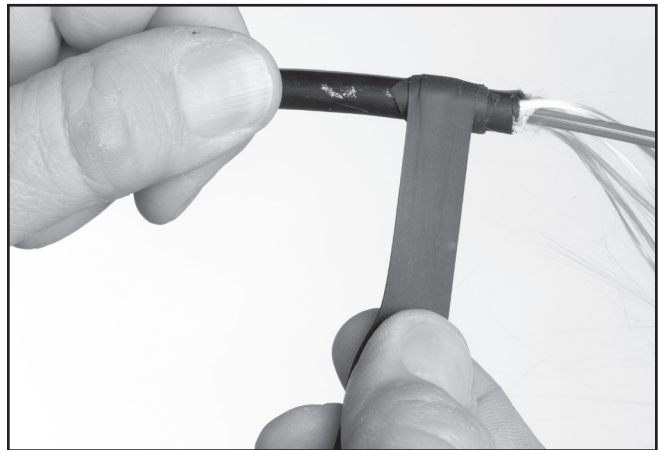
- 7.1 Use loops on bottom of closure for storage of exterior drop cable slack.
- 7.2 Push drop cable (unterminated) into drop port. Pull through to allow desired slack storage for installation.



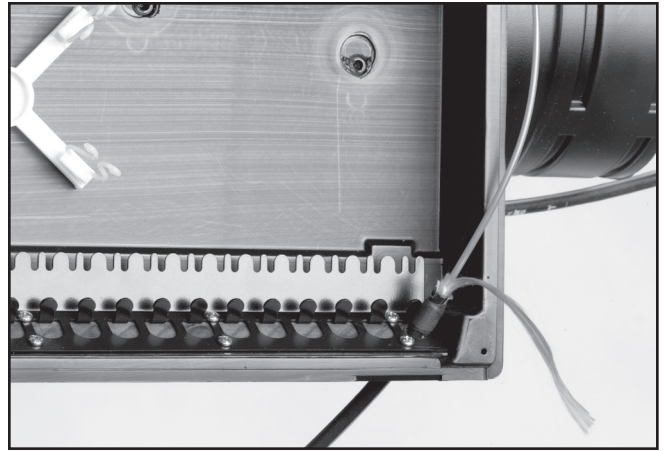
- 7.3 Remove sheath to expose a minimum of 20 inches of buffer tube.
- 7.4 Cut any water-blocking strips and rip cords near sheath opening. Leave aramid yarn for step 7.8.



- 7.5 Tightly wrap adhesive rubber tape 2 times around end of sheath (Scotch® Linerless Rubber Tape 130C is recommended).



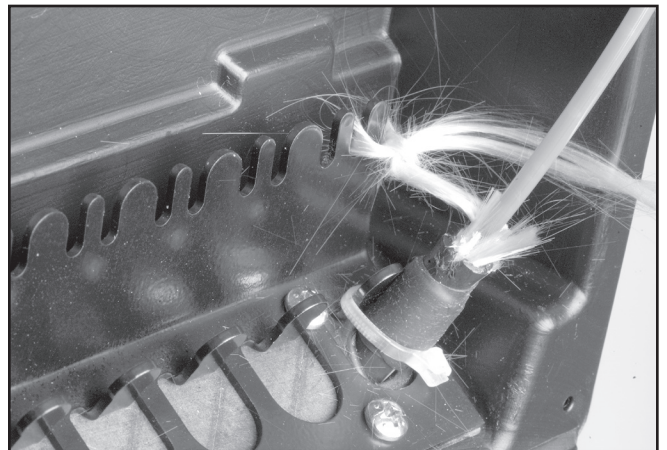
- 7.6 Pull drop cable down (outward direction from box) until wrapped end is aligned with seal clamp bar tie tab.



- 7.7 Secure small cable tie around wrapped sheath and seal clamp bar tie tab. Trim cable tie excess.

Note: *White cable tie shown for clarity only. Black, weather-resistant nylon cable ties are recommended.*

- 7.8 For secondary strain relief, tie aramid yarn and trim excess. (optional)

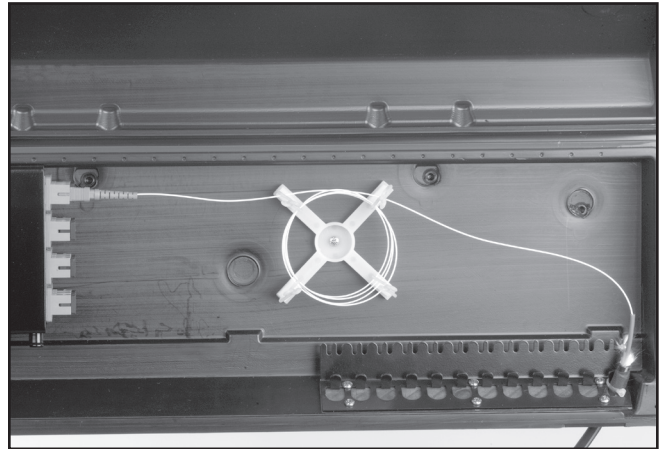
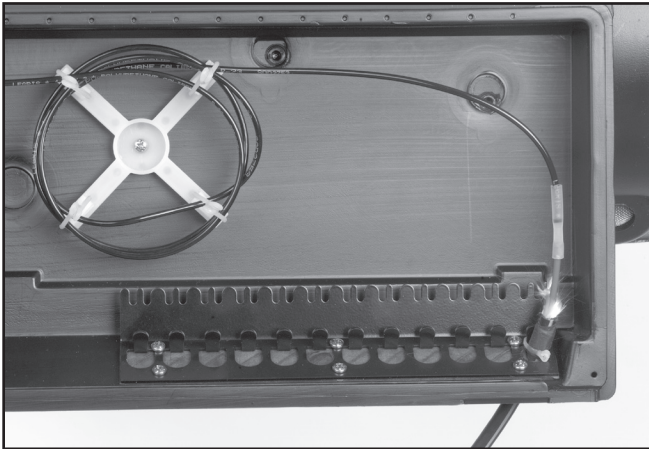


- 7.9 Strip buffer tube at approximately 1 inch from sheath opening. Remove buffer tube and clean grease from fiber(s). 3M™ Scotchcast™ Filled Cable Cleaning Kit 4414 or 3M™ Scotchcast™ Service Wire Cleaning Kit 4415 is recommended.

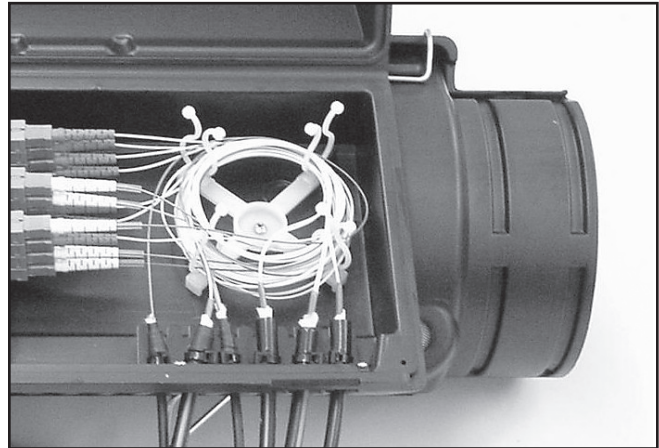
Note: *Carefully follow safety, health and environmental information given of product label or the MSDS sheet for the cleaner.*

Note: *If using cable with 250-micron unbuffered fiber, it is recommended that transition tubing is used to protect slack fiber storage.*

- 7.10 Complete connector termination, and store slack as shown (left). If using cable with 900-micron tight buffered fiber, slack storage can be stored as shown (right).



Note: For 530-HD version, slack loop will contain both clockwise and counterclockwise storage loops (due to space constraints). See picture at right.



8.0 Pre-Terminated Drop Installation

- 8.1 Follow step 1 from previous section labeled 'Field Terminated Drop Installation.'
- 8.2 Ensure dust protection cap is on end of connector ferrule. Insert connector through desired port and pull through.
- 8.3 Follow steps 7.5 through 7.7 of the previous section labeled 'Field Terminated Drop Installation.'

9.0 Taut Sheath Application

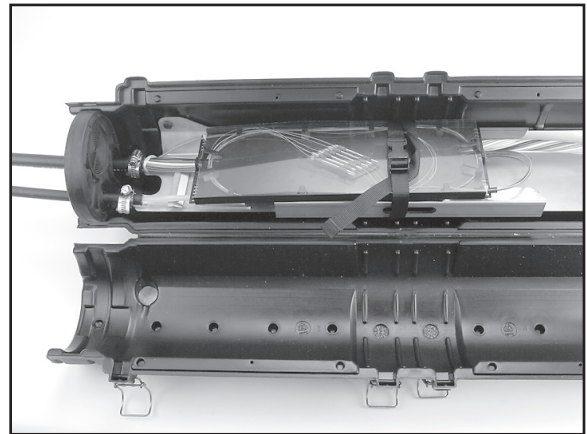
- 9.1 Remove a maximum of 22 in. of sheath and subsequent layers from the cable to access the buffer tubes or ribbon.

Note: *Do not cut central strength members. Leave intact and skip Section 3.5 and Section 3.10.*

- 9.2 Cut the buffer tube or ribbon to be spliced as close to the field side of the sheath opening as possible.
- 9.3 Carefully unwind the cut buffer tube or ribbon from remaining bundle and clean grease if present. 3M™ Scotchcast™ Filled Cable Cleaning Kit 4414 or 3M™ Scotchcast™ Service Wire Cleaning Kit 4415 is recommended.

Note: *Carefully follow safety, health and environmental information given of product label or the MSDS sheet for the cleaner.*

- 9.4 Mount the closure so that sheath opening is centered on cable management tray frame.
- 9.5 Mount tray to cable management tray frame biased to the Central Office side of closure as shown. (See previous section for tray mounting procedure.)



- 9.6 Route buffer tube into tray, leaving 0.5 to 1 in. of buffer tube inside the tray entrance point.

Note: *Do not exceed minimum 1.5 in. bend radius during routing process.*

- 9.7 Remove the remaining length of buffer tube and clean grease from fibers. 3M™ Scotchcast™ Filled Cable Cleaning Kit 4414 or 3M™ Scotchcast™ Service Wire Cleaning Kit 4415 is recommended.

Note: *Carefully follow safety, health and environmental information given of product label or the MSDS sheet for the cleaner.*

- 9.8 Follow instructions in previous sections for tray mounting, splicing and end seal preparation.

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