SBC FOSC 400 D5

INSTALLATION INSTRUCTIONS

Fiber Optic Splice Closures

1.   General Product Information

This installation practice provides instructions for installing CommScope FOSC 400 D5 fiber optic splice closure, henceforth referred to as the D5.

The D5 is a combination cable closure and splice organizer. The closure combines mechanical seals and heat-shrinkable sleeves with hot-melt adhesives to environmentally seal fiber cable splice points.

Cables

The D5 supports a butt splice configuration with one oval cable entry port and five large round cable entry ports. The chart below indicates each port's capacity:

The D5 accommodates cable with any combination of the follow-

Port	Capacity	Cable Diameter Range (inches)
Oval	2 cables	*0.4 to 1.0
Round (5)	1 or 2 cables each	*0.2 to 1.25

ing characteristics:
      * Cable diameter without cable blocking

Cable Types:
      Central core tube (stranded fiber and ribbon)

Strength Member/Shield Types:
      Dual strength member
      Multiple strength member
      Unshielded
      Shielded

Fiber Types:
      Single fiber (250 micron or 900 micron) and ribbon

Splice Tray Quantity

Closure Size:	Basket Kit	Tray Quantity
FOSC D5	Without A Basket	8
FOSC D5	D Basket[1]	6
FOSC D5	D Basket- Tall[2]	5

[1] D Basket to be used with ribbon cable sizes up to 432.
[2] D Basket- Tall to be used with ribbon cable sizes of 432 fibers or more.

Splices

The standard D5 kit is supplied with two splice trays. Each splice tray holds six splice modules. There are different types of splice modules. The chart below identifies the number and type of splices accommodated by each type of splice module:

Splice Modules	Splices Accommodated	Splices per Tray	Tray Kit
SM6	Mass fusion Single fusion (60mm) Single mechanical	36 36 36	D Trays 36-2
SM12*	Single fusion (40mm) Single fusion (60mm) NT QPAK	72 72 72	D Trays 72-2

* For SM12, use Raychem SMOUV or fusion splice protectors having a max. recovered diameter of 0.105".

Locations

The D5 accommodates unpressurized fiber cable in these locations:

·   direct buried
·   aerial
·   underground (manhole) (handhole)

2.   Warnings

As with any electrical equipment, various safety precautions should be noted when operating a hot-air gun. Please take note of these warnings:

1.   **Keep the area clear of all combustible materials and gases, such as gasoline, solvents, and dirty rags. Consult your company-approved practice for procedures to clear and ventilate the work area to avoid the potential for fire and/or explosion.**
2.   **The cleaning tissues provided in the kit are extremely flammable, and should not be exposed to excessive heat or open flame.**
3.   **Do not immerse the hot-air gun in water, as electrical shock could occur.**
4.   **Flash test the closure to no more than 5 p.s.i. After flash test, always bleed off pressure through valve.**

3.   Required Tools and Materials

You will need these tools and materials to install the D5:

·   AC power source capable of providing at least 1750 watts of power
·   Hot-air gun with tip (FOSC ACC CV 1981)
·   FOSC work stand (FOSC-ACC-work stand) (optional)
·   Snips and sheath knife
·   Buffer tube cutter
·   Assorted hand tools, such as a hacksaw, tape measure, can wrench, white marking pencil
·   Locally approved cleaning solution
·   Clean, dry wipes or rags

4.   Standard Components

The following items are included in D5 fiber optic splice closure kits:

Basic Components:
·   base
·   dome
·   splice organizer tray(s) with dust cover
·   Velcro strap
·   mechanical dome-to-base seal and o-ring
·   closure mounting brackets
·   slack basket
·   ribbon router tray
·   heat-shrinkable cable seal for oval port
·   closure/work stand mounting hardware

Cable Termination Components:
· aluminum tape
· branch-off clip
· abrasive strip
· cleaning tissues
· bond wires and clamps
· 2 heat-shrink tubes
· wraparound heat-shrink cable block sleeves/channels (2)
· small transportation tubes
· large transportation tubes
· ribbon transportation tubes
· buffer tube identification labels
· tie wraps
· dessicant
· spiral tubing

Cable Blocking Components:
· yellow adhesive rings
· adhesive foam strips
· heat-shrinkable tubes (2)
· abrasive strip
· cleaning tissues
· tie wraps

5.   General Installation Notes

To ensure the proper performance of the heat-shrinkable sleeve, take note of these precautions:

1.   Do not install the heat-shrinkable sleeve at temperatures below -1°C (30°F).

2.   If the cable is wet, dry the cable before installing the heat-shrinkable sleeve. Steam generated during heating will cause gaps in the adhesive, resulting in a faulty seal.

---

6.   Supplementary Kits

The following chart identifies supplementary kits available for use with the D5 closure, and briefly describes their uses.

Kit Name	Usage
FOSC ACC Cable Seal - 1 NT	Cable sealing kit (T=tubular seal) for installing one cable in any round port.
FOSC ACC Cable Seal - 1 BT	Same as above with cable blocking components.
FOSC ACC Cable Seal - 1 NW	Wraparound cable seal (sleeve only) for use on any round port.
FOSC ACC Cable Seal - 2 NW	Wraparound cable seal (sleeve only) for use on any oval port.
FOSC ACC Branch Off Clip	Branch-off clip plus aluminum tape for installing two cables in one port (Use with FOSC ACC cable seal 1-XX kits).
FOSC ACC D O-Ring Seal	Optional re-entry/repair kit with dessicant, o-ring, and cleaning tissues.
FOSC ACC D Trays 36	D splice tray with 6 SM6 splice modules (36 splices/tray).
FOSC ACC D Trays 72	D splice tray with 6 SM12 splice modules (72 splices/tray).
FOSC ACC D Basket	Basket for storing slack or express (uncut) loose buffer tubes or ribbons.
FOSC ACC D Basket-Tall	Taller version of above basket with more storage space.
FOSC ACC Ribbon Router	Snaps into baskets; helps route ribbons and transportation tubes onto trays.
FOSC ACC D Vault Bag	Contains a flame-retardant bag to be installed over the FOSC 400 D closure.
FOSC ACC CB Sleeve W	Wraparound sleeve for cable blocking looped cable in any oval port..
FOSC ACC TTube Ribn-16″	Ribbon (7/32″) transportation tubes, 16″ (six 12-fiber ribbons per tube).
FOSC ACC TTube Lrge-16″	Large (3/16″) transportation tubes, 16″ (for 12-fiber loose buffer tubes).
FOSC ACC TTube Smll 16″	Small (5/32″) transportation tubes, 16″ (for 6-fiber loose buffer tubes and funnels).
FOSC ACC Fiber Ext Grnd	External ground or "FEG" kit to isolate one cable ground through port.
FOSC ACC Multiple Ext. Grnd	Multiple gound or "MEG" kit to isolate up to 6 cables.
FOSC ACC D Pole Mount	For mounting closure to pole or wall.
FOSC ACC Aerial Clamps	Clamps for mounting A, B, or D closures to an aerial strand.
FOSC ACC Desiccant	Bags of desiccant (75g). Use one bag in A and B closures, two bags in D closures (optional).
FOSC ACC Dome Holder	Holds dome and base together while dome/base clamp is installed.
FOSC ACC Port Rods - 0.5	Provides a .5″ plug to be used with cable seals in closing open ports.
FOSC ACC Funnel	Funnel for routing stranded fibers from central core tube cable to splice trays.

7.   Cable Preparation and Blocking

These instructions address the cable blocking procedures for central core tube (stranded fiber or ribbon) cable, including both cable ends and mid-span cable entries. Refer to the appropriate section:

		Section Number
		Oval Port
Cable Ends	Central Core Tube Stranded Fiber	7.1
	Central Core Tube Ribbon Fiber	
Mid-Span Cable Entry*	Central Core Tube Stranded Fiber	7.2
	Central Core Tube Ribbon Fiber	

*These applications require wraparound cable blocking sleeves available in the closure kit.

Closure Size	Cable Sheath Removal		Dimensions From Cable Sheath Ring Cut		
	Cable End Opening	Mid-Span Opening	Metallic Strength Member	Central Core Tube	Metal Shield
FOSC 400 D5	110"	130"	9"	10"	1"

7.1 Cable End, Central Core Tube Cable, Stranded or Ribbon Fiber in the Oval Port

1.   Clean the cable and remove 110″ of the outer cable sheath and shield, if present.

2.   If metal or dielectric dual strength members (e.g., LXE) or multiple metallic strength members (eg., crossply) are present, expose each strength member and cut it off 9″ from the ring cut. (Figure 1) If flexible dielectric strength members are present, cut them off at the ring cut.

3.   If metal shield is present, remove all but 1″ of the metal shield. (Figure 1) Pry open a 1″ tab in the exposed metal shield where the shield overlaps. Crimp the bond clamp onto the edge of the shield.

Note: For central core ribbon cables 288 and above, tab both sheath and shield 1″. Crimp the bond clamp onto 1″ tab.

4.   Attach the cable to the FOSC work stand with a tie wrap. (See Figure 2)

5.   Carefully cut the central core tube 10″ from the sheath ring cut. (Figure 1)

6.   Separate the fiber groups and clean the exposed components with a clean rag and company-approved cleaning solution. If ribbon cable is used, stack the ribbons in the order in which they appear in the central core tube. Temporarily wrap a piece of vinyl tape around the ribbons about 1″ from the tube to help keep the ribbons stacked.

Note: If the ribbons are not stacked properly, or if they are twisted, light signals may be attenuated.

7.   Peel the backing away from the foam adhesive strip. Wrap one layer of foam around the central core tube 2-1/2″ above the sheath ring cut, excluding the bond wire (if present) and the strength members. Wrap the remainder of the foam strip around the central core tube strength members, and bond wire (if present) over the previously placed foam strip, creating a foam collar. (See Figure 3)
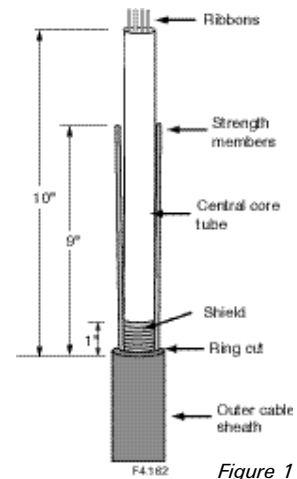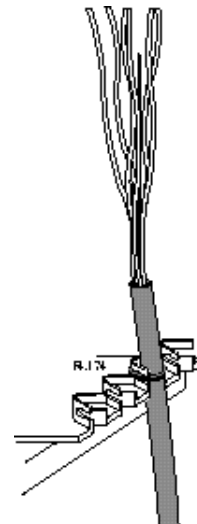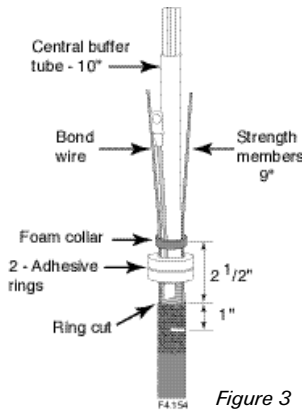

Figure 1

Figure 2

Central buffer tube - 10"

Bond wire

Strength members 9"

Foam collar

2 - Adhesive rings

Ring cut

2 1/2"

1"

F4154

Figure 3

Figure 4

F4.203

Figure 5

F4.204

Handle

Pin

Notch

1

Feet

Post

2   3

F4.196

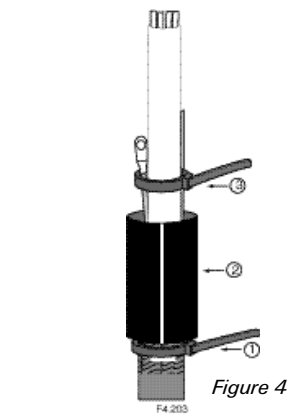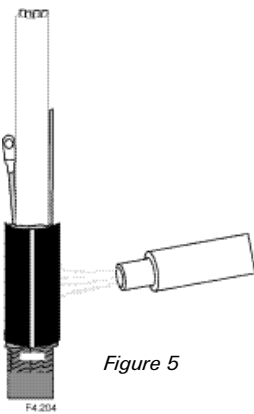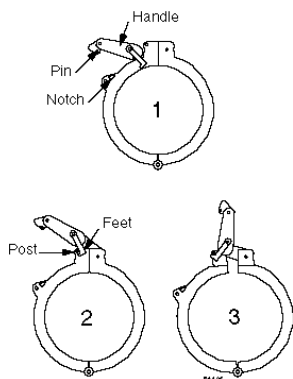*Figure 6*

8. Install both yellow adhesive rings over the central core tube, strength members, and bond wire between the shield (if present) or the sheath ring cut and the foam collar. (Figure 3)

9. Clean 3″ of the cable sheath below the sheath ring cut with the provided cleaning tissue. Abrade the cleaned area with the abrasive strip.

10. Place a pencil mark on the cable sheath 1″ below the ring cut.

11. Place a tie wrap at the pencil mark on the cable sheath. Slide the black heat-shrink tubing with the white stripe over the adhesive rings and let it rest on the tie wrap. (Figure 4) If cable is below .5″ in diameter, use the smaller black heatshrink tubing from the cable termination kit.

12. Place another tie wrap around the core tube and wires above the tube. (Figure 4)

13. With the CV1981 hot air gun on setting 6, start shrinking the bottom of the tube, directing the air flow upward. Continue heating until the entire tube has shrunk, then apply additional heat to the lump of adhesive in the middle of the tube. Be careful not to overheat the core tube at the end of the cable block sleeve. When the seal is complete, the tube should be smooth and the adhesive lump should be melted. (Figure 5)

Note: Do not attempt to melt the adhesive rings until both ends of the tube have been recovered.

7.2 Midspan, Central Core Tube Cable, Stranded Fiber and Ribbon in the Oval Port

1. Clean the cable and remove 130″ of the cable sheath and shield, if present.

2. Follow the instructions in Section 7.1, Steps 2 - 13, but use wraparound cable blocking sleeves instead of the tubing. The channels on the sleeves must be positioned 90° from the bond wire, if present. After shrinking sleeves direct additional heat at channels. Be careful not to overheat core tube at the end of the wraparound cable block sleeve.

3. After the sleeves have cooled, cut the channels off the sleeves with a knife and remove the tie wraps from the cables.

Splice Closure Installation Instructions

The oval port side of the base is the feeder (or in cable) side of the D5 closure, and the opposite side is the distribution (or out cable) side.

8. Remove Dome/Base Seal

1. Push the handle to the side to release the pin from the notch, then lift the handle. See Figure 6, step 1.

2. Hook the "feet" of the handle behind the two posts and pry open one half of the clamp. See Figure 6, steps 2 and 3.

3. Move the handle out of the way and gently tap the other half of the clamp to release it from the dome.

4. Support the dome before removing the clamp. Remove dome and o-ring. Hang o-ring on top of dome.

5. Protect dome from dirt during installation. DO NOT SIT ON DOME!

6. Attach the D5 base to the FOSC work stand using a nut and bolt. (See Figure 7)

Note: Position the work stand post on either side of the closure flanges to avoid blocking the port you are working on. (Figure 8)

9. Install Cables

1. Select the appropriate port to open on the D5 base. These instructions assume that the oval port is selected.

Note: An oval port seal is included with most D5 kits. If you intend to open a round port, you will need one FOSC ACC cable seal kit to seal each opened round port.

2. Cut the end off the oval port at the ridge with a hacksaw.

Important: Slide tubular cable port seal over cable(s) before installing cable(s) in the port!!! The arrow on the cable seal should point at the base. (If you forget this step, you may need to order a wraparound oval port sleeve.)

3. Insert the cable(s) through the oval port. Align each cable so that the sealed end of the cable block is flush with the inside edge of the opened port. For cables installed in the oval port, place the distribution (out) cable on top, and the feeder (in) cable on the bottom. (Figure 9)

9.1 Bond and Ground Metal Components

Bonding components are included in the D5 kit. The D5 supports two methods of external grounding:

· Grounding using the FOSC-ACC-Fiber Ext Grnd kit
  (common or isolated grounding)
· Grounding using the FOSC-ACC-Multi-Ext-Grnd kit (MEG)
  (common or isolated grounding)
· Grounding using two ground feedthrough studs. (Figure 10)

Various combinations of the procedures described in this section can be used to bond and ground cables and closure components in compliance with company-approved grounding standards.

Note: All steel strength members are bonded in common when captured under the rectangular washer.

Bonding Cables Installed in the Oval Port or Bottom Round Port

Locate the two preinstalled twisted copper bonding cables attached to the D5 tray bracket. One end of each twisted copper bonding cable is attached to the metal tray bracket; the other end is an eyelet to which bond wires from cables will be attached with the supplied nut and bolt assembly. (Figure 10) Each twisted cop-per bonding cable can accommodate two bond wires from fiber optic cables. Cables are now bonded with the base, which can be externally grounded using feedthrough studs or through external ground wires.

Bonding Cables Installed in the Four Top Round Ports

Insert the "hooked" bond wire eyelet between the bolt head and square washer opposite the port being used. Do not tighten the bolt until strength members are placed under the washer.
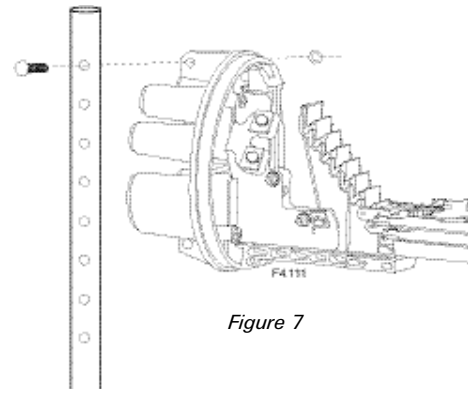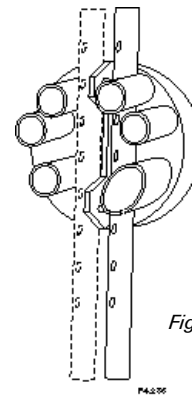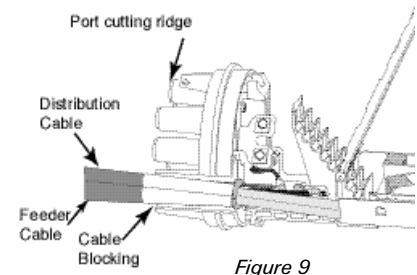

Figure 7

Figure 8

Port cutting ridge

Distribution Cable

Feeder Cable

Cable Blocking

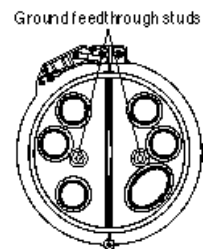Figure 9

Ground feedthrough studs
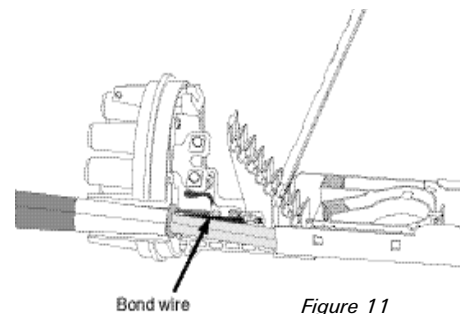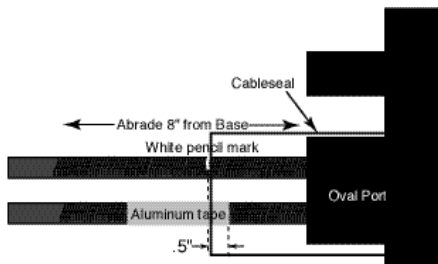
Figure 10

Bond wire

Figure 11

9.2 Attach Strength Members

To attach strength members from the cables to the metal tray bracket, follow these steps:

1. Align the strength member with the rectangular washer which is attached to the base. Trim the strength member 1/4″ beyond the edge of the rectangular washer.

2. Loosen the rectangular washer and place the strength member(s) underneath it. Tighten the square washer to secure the strength members against the base.

3. When using the top four round ports, one bolt captures both the bond wire eyelet and the central member. It may be necessary with large central members to place a piece of the central member under opposite sides of the washer to keep the washer level.

9.3 Seal Cables in Oval Port

To seal cables in the oval port, follow these steps:

1. Clean the port and 8″ of cable sheath beyond the port edge with the supplied cleaning tissue. (Figure 12)

2. Abrade the port and 8″ of cable with the supplied abrasive strip, and remove any abraded material from the port and sheath with a clean, dry rag.

3. Slide the tubular cable port seal up around the port and cable. Be sure that the inside edge of the tube butts against the D5 base. Squeeze the tube down onto the cable and place a white pencil mark on the cable just beyond the end of the tube.

4. Slide the tube back off the port.

5. Wrap one lap of aluminum tape around each cable. The edge of the tape closest to the closure should be 1/2″ inside the white mark on the cable as shown in Figure 12.

6. Slide the tube back onto the port, being sure that the edge of the tube butts against the D5 base. (Figure 13)

7. Install the branch-off clip as shown. The clip's base must touch the tube. (Figure 14)

8. Tie the cables together with a tie wrap 1″ beyond the end of the tube.

9. Using the CV1981 hot-air gun on setting 10, begin shrinking the tube at the end closest to the base of the closure. Direct the air around the tube until the green paint turns black.

10. Continue heating the remainder of the tube as evenly as possible until it has completely conformed to the cable(s).

11. The seal is completely installed when melted adhesive appears at the cable end of the tube around the branch-off clip, and all green thermochromic paint on the tube has turned black.
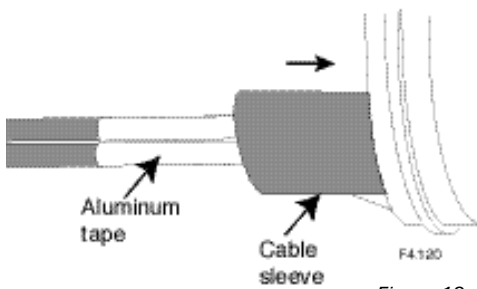
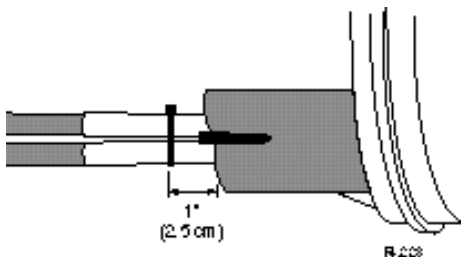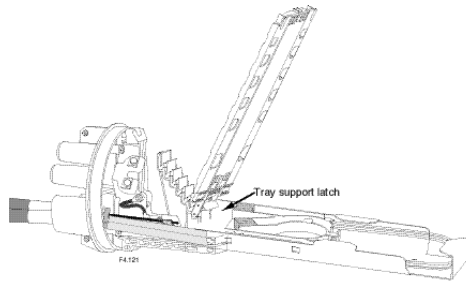***Note: Do not overheat the tube or apply excessive heat to plastic parts of closure base.***

Cableseal
Abrade 8″ from Base
White pencil mark
Oval Port
Aluminum tape
.5″
Note: Aluminum tape should only be installed 1/2" inside cable seal.

Figure 12

Aluminum tape
Cable sleeve

Figure 13

1"
(2.5 cm)

Figure 14

10. Fiber Organizing and Splicing

Drop Cable Chart

Types of Cable	Single Fusion Splice Cable Ends	Mass Fusion Splice Cable Ends
Central Core Stranded	70' Cable End Measurement Route Directly Onto the Splice Tray Using Standard Funnel*	N/A
Central Core Ribbon	110' Cable End Measurement DERIBBONIZE Route Ribbons Into Basket Before Routing Onto Splice Tray. Deribbonize on Splice Tray.	110' Cable End Measurement Route Ribbons Into Basket Before Routing Onto the Splice Tray
Loose Buffer Tube	70' Cable End Measurement Route Directly Onto the Splice Tray	N/A

* Do not use standard funnel for ribbon cable.

10.1 Central Core Tube Cable - Stranded Fiber in Oval Port

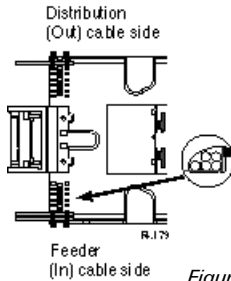*Note: For mid-span openings, expressed fiber are stored in the D basket.*

1.   Fibers are then routed up to the splice trays using transportation tubes.

2.   If multiple trays are present, fill the bottom tray first. Use the tray support attached to the bottom of the second tray to hold it out of the way. (Figure 15)

3.   Remove the tray cover and routed the "feeder" (in) and "distribution" (out) tubes to the appropriate side of the tray. (Figure 16)

4.   Place a pen mark on each tube 1/4" beyond the tie-down slots. Use a buffer tube cutter to cut each tube at the mark, and remove the excess tube from each fiber group. (Figure 16)

5.   Secure the transportation tubes to the tray with tie wraps. Tubes will stack under the tie wrap as shown. (Figure 16)

6.   Arrange the fiber around the tray for storage. Replace the tray cover.

7.   Repeat Steps 1 - 5 for each tray until all fiber has been stored in a tray.

11.   Ribbon Installation Instructions

11.1 Ribbon Router

The ribbon router distributes ribbons to splice organizer trays installed on top of the D basket. It is recommended that central core ribbon cables from 0-216 be used with the ribbon router. **Central core ribbon cables over 216 should be routed directly to the slack basket underneath the ribbon router.**

1.   Raise or remove the upper splice organizer trays to expose the D basket as shown in Figure 17.

2.   Attach both central core tube ends to the ribbon router with one large tie wrap. (Figure 18) The distribution or "out" cable should be on top. Seal ends of core tube with company approved sealer.

3.   Mark the mid-point of the ribbons to be spliced. Cut the ribbons to be spliced at the mid-point mark.

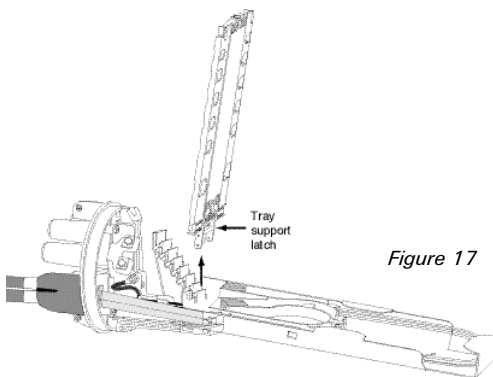4.   Route the ribbons to be spliced through the ribbon router as shown in Figure 18.
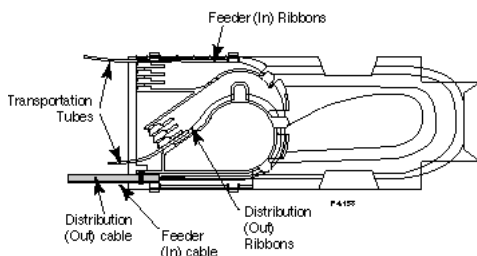

Figure 15

Figure 16

Figure 17

Figure 18

5. Place up to six ribbons into a single transportation tube. Insert the transportation tube into one of the distribution slots on the ribbon router as shown. Up to three transportation tubes can be stacked in each slot. Fill the slots in the order indicated. (Figures 19)

***Note: Avoid crossing ribbons when storing the transportation tubes in the ribbon router slots.***

11.2 Ribbon Core Tubes Routed Directly to Slack Basket

It is recommended that central core ribbon cables over 216 be routed directly to the bottom of the slack basket.

1. Secure the central core tube directly to the bottom of the slack basket using the tie wraps. Route ribbons under the ribbon router.

2. Place "Tube Identification Labels" on the appropriate number of ribbon transportation tubes that will be required to build the splice. The labels should be placed 2″ from the end of the transportation tube that is to be secured on the splicing tray.

3. Place up to six 12-fiber ribbons into each ribbon transportation tube. The lower-numbered ribbons should be placed on the outside of the ribbon transportation tube. The lower-numbered ribbon transportation tubes are then to be positioned and secured to the outside of the splicing tray, and the larger-number ribbon transportation tubes to the inside of the tray.

4. Place the ribbon transportation tubes into the ribbon router, then route the ribbon transportation tubes onto the splice trays.

5. Always begin splicing with the bottom splice tray.

6. Make mass fusion splice.

7. Store fusion splice support sleeves in the splice module, starting at the top of the splice module.

8. Fill one splice module at a time, starting at the top of the splice tray.

9. Upon completing one splice module, pull the slack ribbon back into the basket for storage working with one ribbon transportation tube and splice module at a time.

10. When pulling the slack ribbon back into the basket for storage, leave the basket end of the ribbon transportation tube out of the ribbon router in order to eliminate the strain on the ribbons as they are being pulled into the basket.

11. Place the tray cover, and move up to the next splice tray.

12. Administering Preferred Fiber Counts in a "Cable Ends" (cut splice) Opening

1. To administer a "Preferred Fiber Count" within a closure that has "Cable Ends" (cut splice), a two splice tray system is to be employed.

2. The bottom tray "The Mass-Fusion Splice Tray" is where the central office cable end and the field cable end will be spliced (Mass Fusion) to the pre-installed fibers that are routed, deribbonized and stored in the two-tray system.

3. The top tray "The Drop Splice Tray" is where the drop cable is spliced (single fusion) into the "Preferred Fiber Count".
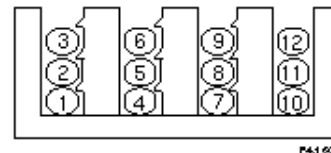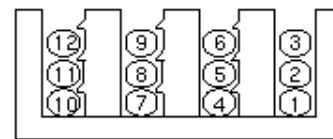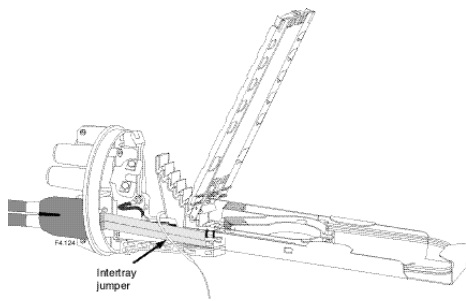

Figure 19

Figure 20

Figure 21
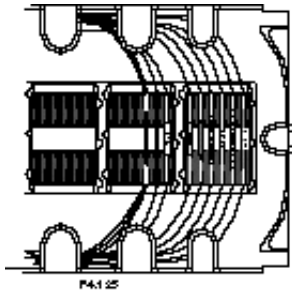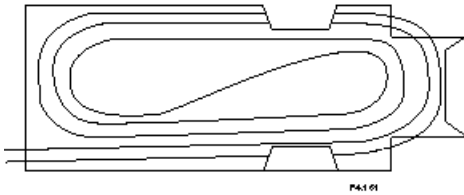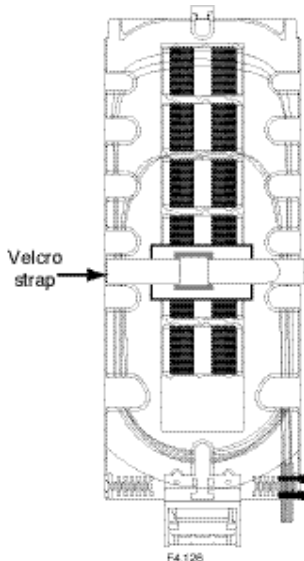

Figure 22

Figure 23

13. Administering Preferred Fiber Counts in a "Mid-Span Cable Entry" (no cut splice) Opening

1. To administer a "Preferred Fiber Count" within a closure that has a mid-span opening (no cut splice), **a one splice tray system** is to be employed.

2. Select ribbon(s) to become preferred fiber count in the basket of the closure. Place ribbon(s) into a split **ribbon transportation tube**, wrap the split transportation tube with spiral wrap.

3. Route the spiral wrapped **ribbon transportation tube** onto a splice tray, and deribbonize "Preferred Ribbon Fiber Count(s)".

4. Terminate the "Service" and "Protect" **transportation tubes** from the drop cable onto the tray and splice.

13.1 Add/Remove Splice Trays

Additional splice trays are available in the FOSC ACC D tray kits. To add splice trays, put the tray support latch down, hold the tray vertically over the tray holder bracket, and insert the tray hinge into the next unoccupied slot on the tray holder bracket. Put the tray support latch up to lower the tray.

To remove splice trays, reverse this procedure.

14. Add Intertray Jumpers

If single fiber or ribbon placed on one tray or basket is to be spliced or routed to another tray, you must use an intertray jumper to route the fiber to the desired tray. To create an intertray jumper, follow these steps:

1. Place appropriate standard or intertray identification markers on a transportation tube. (Intertray IDmarkers are marked "1TO" through "8TO" and "1" through "8", to indicate which tray the jumper came from and which tray it is going to.)

2. Thread the desired single fibers or ribbons through the marked transportation tube or the intertray jumper.

3. Secure one end of the transportation tube to the originating splice tray or basket.

4. Guide the transportation tube through the opening in the tray mounting bracket to the appropriate destination tray and position it in the tray. (Figure 20)

5. With a pen, mark the jumper 1/4" beyond the tie wrap slot. Use the buffer tube cutter to cut the jumper at the mark, and secure the jumper to the splice tray with two tie wraps. The single fibers or ribbons may now be stored or spliced.

6. Splice ribbons on splice tray according to Figure 21.

Note: Pull slack ribbon through tubes back into the basket for storage after splicing.

7. Store the slack ribbon and uncut ribbon loops in the FOSC ACC D basket as shown in Figure 22. Secure in place with tie wraps.

15. Closing and Mounting Closure

15.1 Install Dome

1. Desiccant bags should be installed on top of the uppermost splice organizer tray. Secure it in place with the supplied Velcro strap. (Figure 23)

2. Clean the o-ring and the o-ring seating area with a clean, dry cloth. Use clean water or alcohol wipe if necessary. Sealing surfaces must be free of contaminants such as cable grease, cable threads, fibers, dirt, and dust. Inspect for damage. Re-install the o-ring.

3. Mount dome on base, aligning white marks or arrows on dome and base. If desired, use FOSC ACC dome holder to hold dome and base together while installing clamp. Install clamp around the base/dome interface, removing dome holder, if used.

4. Position feet of handle in front of the two posts and push down on the handle to pull the two halves of the clamp together. Figure 24, steps 1-3. Do not use excessive force. If clamp will not seat properly, check the o-ring placement.

5. Continue to push handle down until the small pin on the handle snaps into the triangular hole in the clamp. Figure 24, step 4.

6. A security lock or tie wrap may be inserted through the round holes in the handle and clamp to lock the closure.
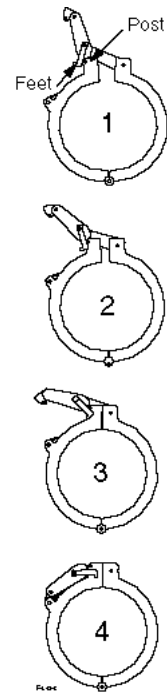
15.2 Test Seals

Ensure that all heat-shrinkable parts are cool to the touch. Pressure test the closure with no more than 5 psi. Thoroughly soap all seals and the valve to check for seal integrity.

Port: 1= round, 2=oval

FOSC ACC Cable Seal-X XX

N=No cable blocking components   T=Tubular seal
B=Cable blocking components included —— —— W=Wraparound Seal

Important: After flash testing, bleed all pressure from the D5 closure through the valve.

15.3 Mount Closure

When the closure has successfully completed testing, it can be mounted for storage. For manhole installations, slide the mounting brackets over a mounting rod or pipe (FOSC ACC mounting pipe) (Figure 25). Mount the brackets to the dome and base as shown. (Figure 25) The mounting rod is not supplied. For aerial applications, use the optional FOSC ACC aerial clamps kit. For wall or pole mount applications, use the FOSC ACC D pole mount kit.
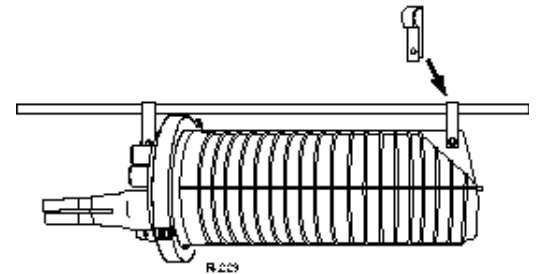
Figure 24

Figure 25

16. Adding Cables

Adding cables to a sealed D5 closure requires additional cable seal kits. Cable seal kits are available in several configurations, as described by the kit naming convention described below:

17. Removing Cable Seals

Important: When removing cable seals from a D5 closure, first remove the dome and make sure that the cable's strength members are securely attached to the closure's base.

1.   Re-heat the seal with a hot-air gun.

2.   Lightly score the seal with a knife until a split appears in the seal.

3.   Apply heat to the split until it runs the length of the seal.

4.   Pull the seal away from the cables and closure with a pair of pliers.

5.   Any old adhesive remaining on the cables and closure can remain in place.

6.   If necessary, cables can be replaced with half-inch plastic rods sold as FOSC ACC port rod 0.5 kits.

Technical Assistance Center (TAC)
Tel.: 800.830.5056
Email: TAC.Americas@commscope.com
www.commscope.com

FOSC 400 and SMOUV are trademarks of CommScope Inc.