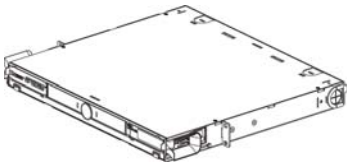
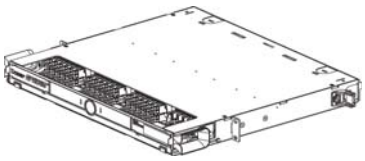
OPTICOM QUICKNET Rack Mount Fiber Cassette Enclosures

Part Numbers: FCE1U, FCE1UA, FCE2U

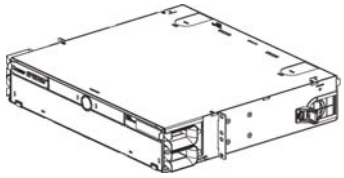
INSTALLATION INSTRUCTIONS FS006



FCE1U



FCE1UA



(FCE2U)

Contents

1 ENCLOSURE
2 (3) *TAK-TY* Tape (6" pcs.)
2 (3) ADHESIVE MOUNTS
2 SLACK SPOOLS
1 (2) #10-32 x 3/8" SCREW
3 (4) #10-32 HEX NUTS
1 (2) FIBER GROMMETS
4 #M6 x 1 SCREWS
1 (2) STRAIN RELIEF BRACKET
4 CABLE TIES (PLT2S-M0)
2 (4) PLUNGERS AND GROMMETS
2 (4) BEND RADIUS CLIPS
4 #12-24 x 1/2" SCREWS
1 CAUTION LABEL
1 LASER WARNING LABEL
3 BEVELED ENTRY CLIPS

WARNING: UNMATED CONNECTORS MAY EMIT INVISIBLE LASER RADIATION. DO NOT LOOK DIRECTLY INTO THE END OF THE CONNECTOR. DO NOT INSPECT WITH MAGNIFYING DEVICES. MAINTAIN DUST CAPS ON UNMATED CONNECTORS.

CAUTION:
Fiber optic cable is sensitive to excessive pulling, bending, and crushing forces. Consult the manufacturer's cable specification sheet for the specific cable in use.

Follow TIA/EIA-568-A, 569, 606, and 607 installation guidelines where applicable.

Care should be taken when opening or closing a fully loaded drawer in order to protect the fiber components.

ASSEMBLY VIEW *OPTICOM* Fiber Adapter Panel (FAP) Installation (FAPs not included).

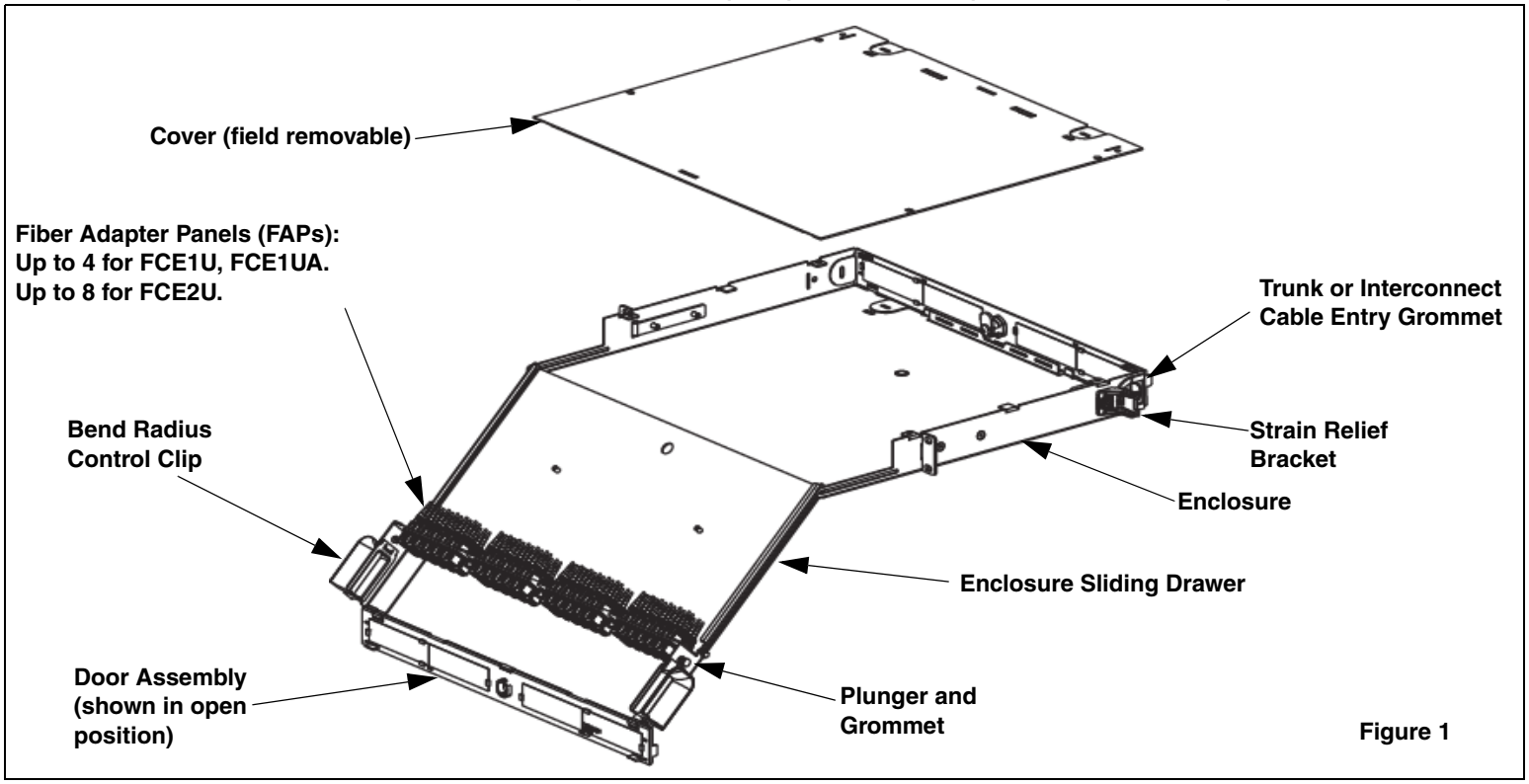


Figure 1

Preparation and Rack Mounting

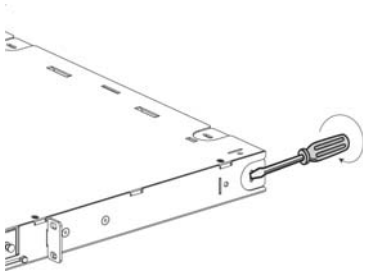


Figure 2

Determine where the cable will enter the enclosure. Carefully remove the knock-out at that entry location of the fiber tray so as not to damage surrounding sheet metal. DO NOT Install grommet at this stage, grommet will be installed after enclosure is mounted to rack.

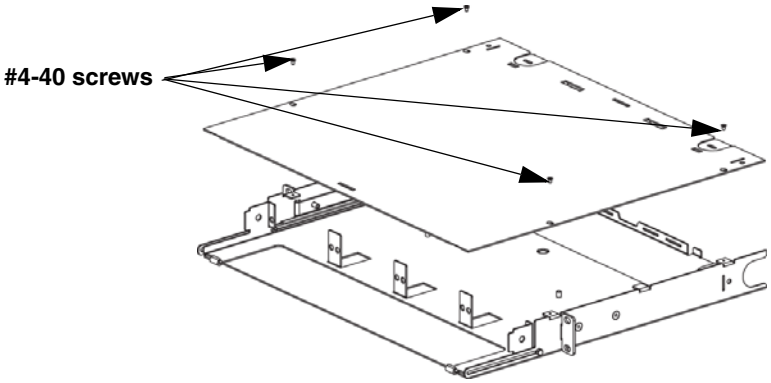


Figure 3

Note: *Cover removal is not required for proper fiber optic cabling installation.*

To remove the cover if desired, unscrew the four #4-4-40 screws and lift cover up and off.

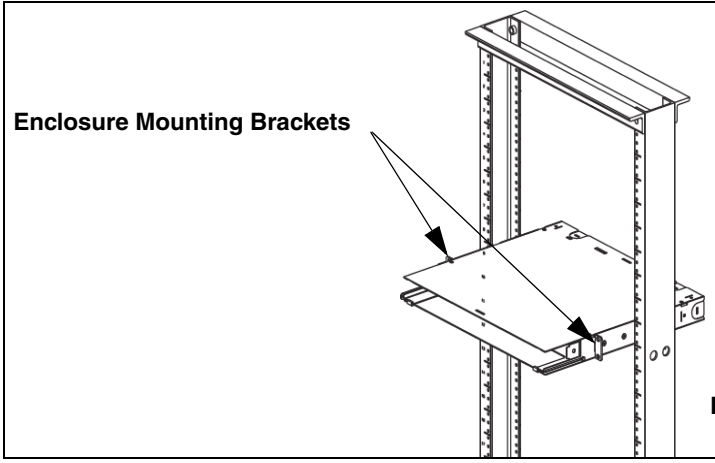


Figure 4

Place enclosure mounting brackets at desired position on the rack. Mount the enclosure to the rack using (4) #12-24 x 12" screws. Use (4) M6 x 1 screws if mounting to a metric rack.

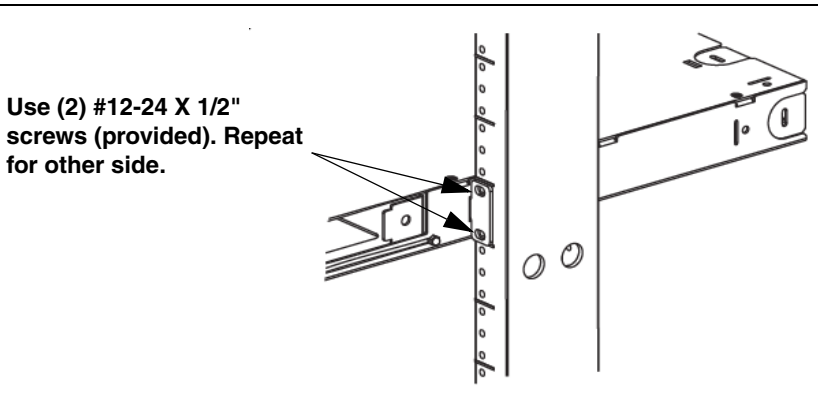


Figure 4A

Cut the small circle for 1" diameter innerduct.

Cut the large circle for 1-1/2" diameter innerduct.

Cut the straight lines when not using any innerduct.

Figure 5

After the enclosure is mounted to the rack, determine the size of the innerduct that will be used to bring the cable into the enclosure. Install grommet following the proper cutting diagram.

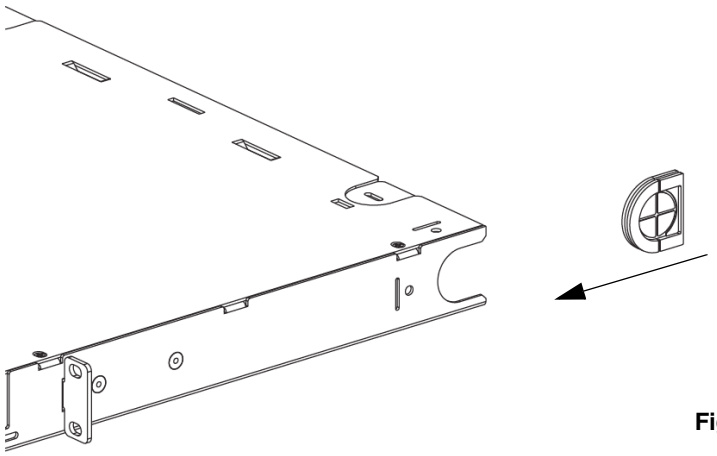
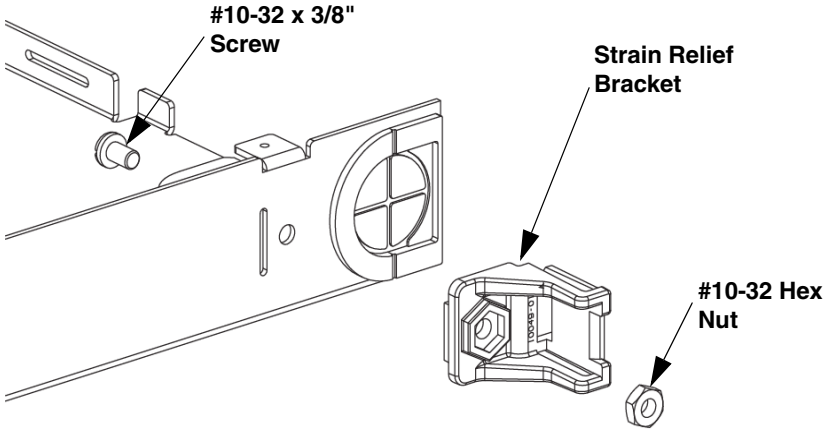


Figure 5A

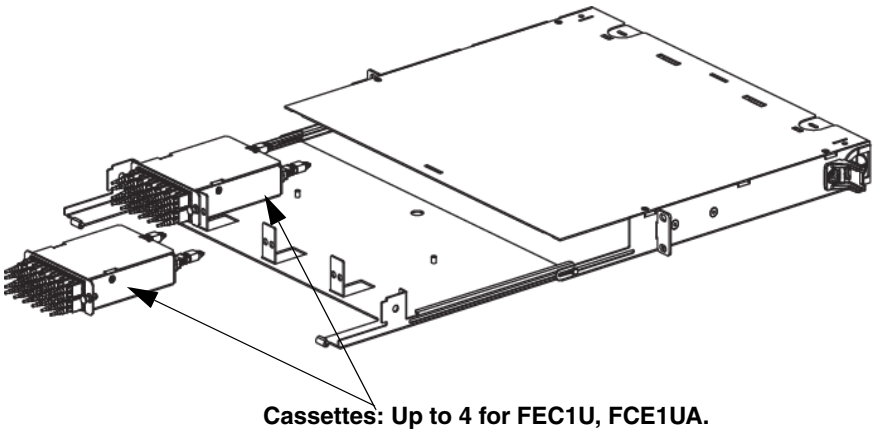


Note: Cover not shown for clarity.

Figure 6

Place the strain relief bracket adjacent to the knocked out enclosure entry point. Fasten with #10-32 x 3/8" screw and hex nut.

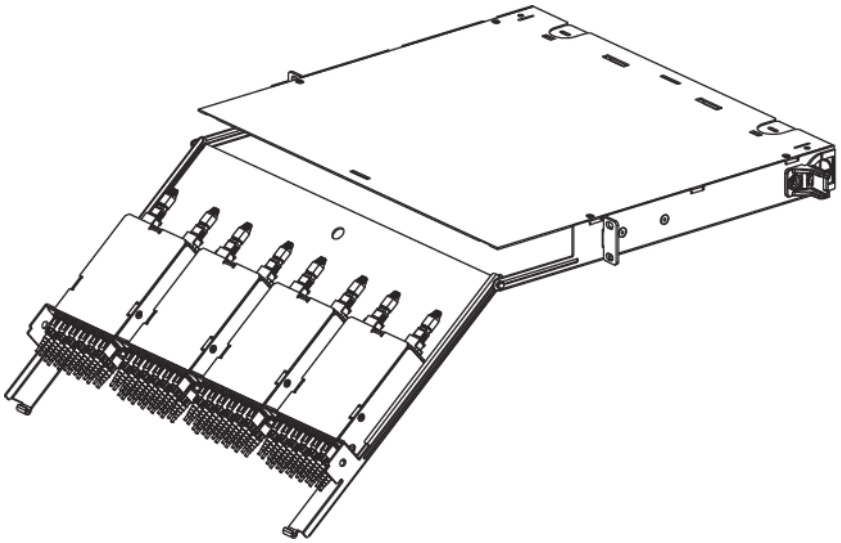
QUICKNET Cassette Installation (cassettes not included)



Cassettes: Up to 4 for FEC1U, FCE1UA.
Up to 8 for FCE2U.

Figure 7

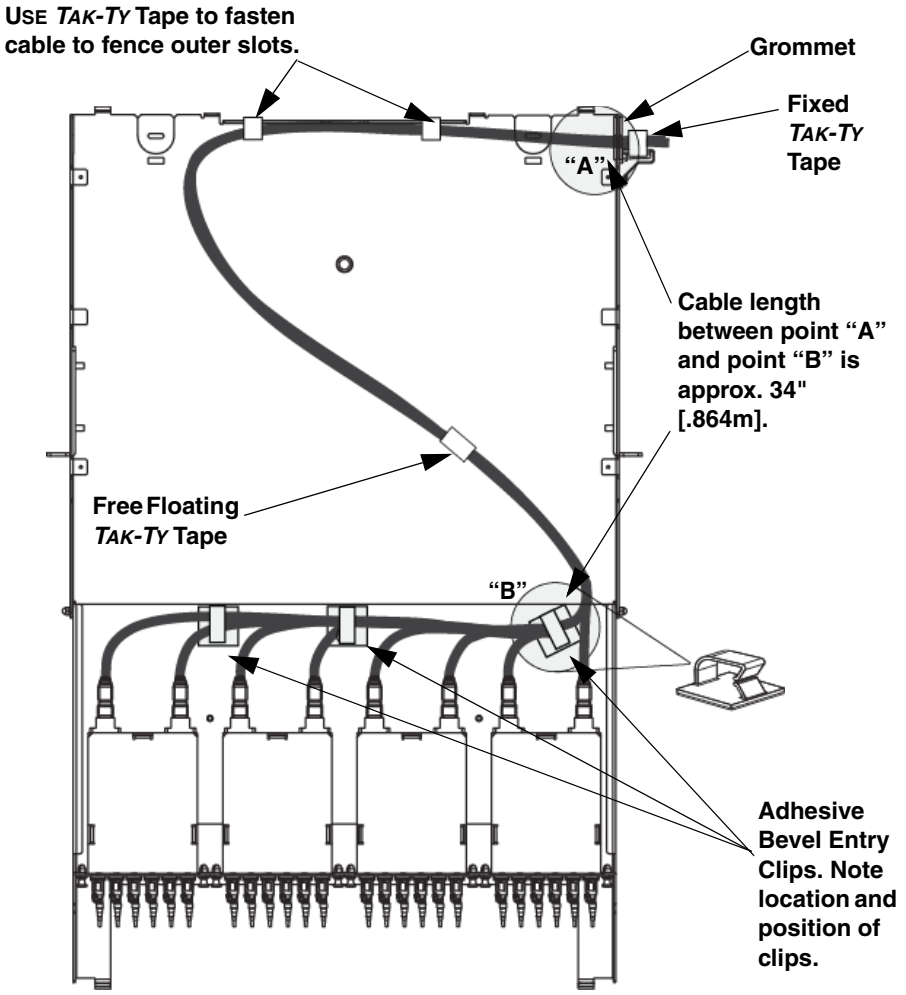
Insert *QUICKNET* Pre-Terminated Fiber Optic Cassettes into the enclosure as shown. Once mounted, fully seat NyLatch fasteners to secure the cassette.



Isometric view showing drawer fully extended and tilted down (cables omitted for clarity).

Figure 7A

Fully extend drawer to ensure proper amount of slack is used.

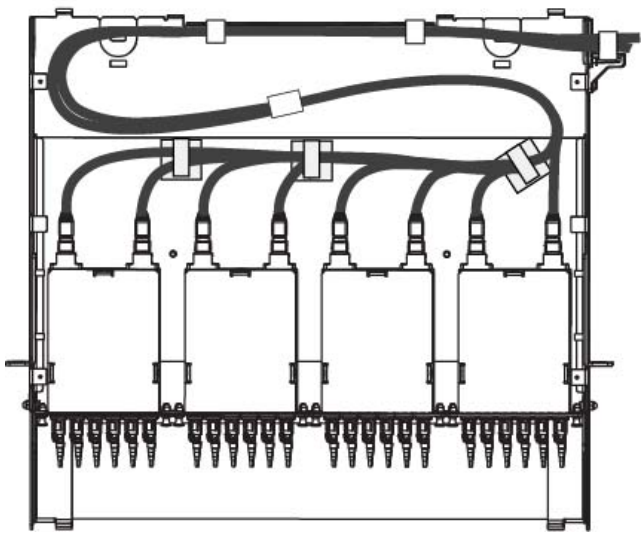


Drawer in extended position

Figure 7B

Route fiber through grommet to fiber cassettes as shown. Leave enough slack so that when the drawer is fully extended, cables are not put under tension. However, do not use so much slack that drawer cannot be returned to the home position. (See Fig 7C)

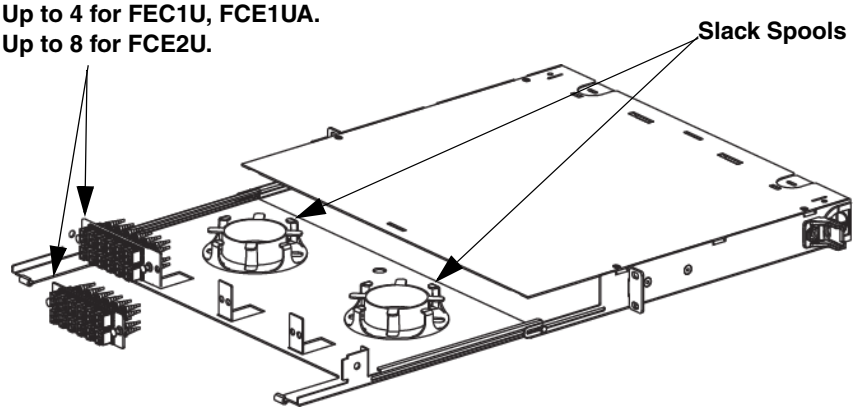
Use *TAK-TY* Tape to secure fiber cords at cable entry location and other points as shown.



Drawer in home position

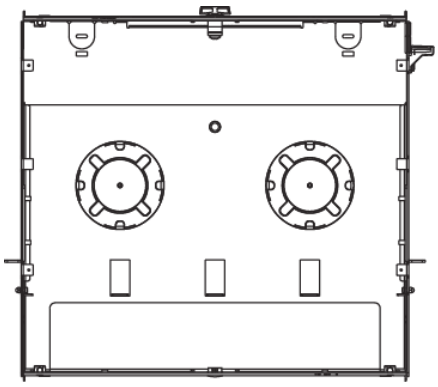
Figure 7C

Field Termination or Pre-Terminated Trunk Installation



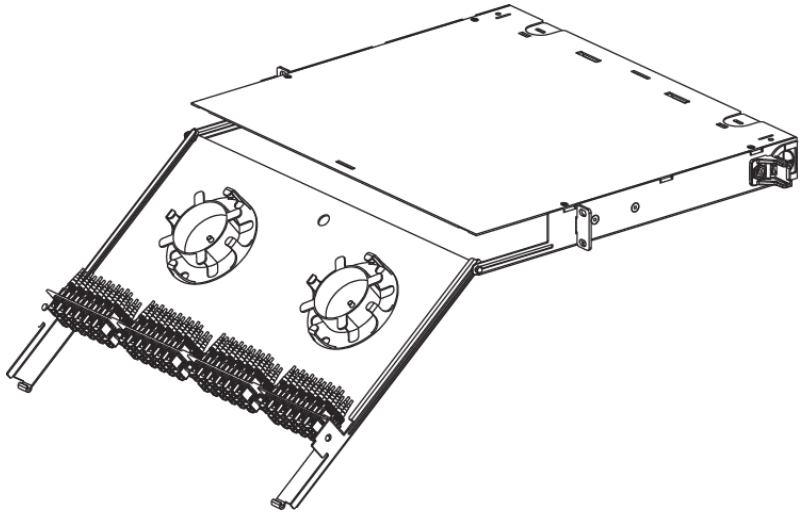
Place slack spools over #10-32 studs on sliding tray. Secure with #10-32 hex nuts and/or adhesive mounts (be sure to punch hole into adhesive mounts). Note spool orientation.

Position FAPs between upright flanges as shown. Once mounted, fully seat NyLatch fasteners to secure FAPs.



Top view with cover removed. Please note orientation of spools.

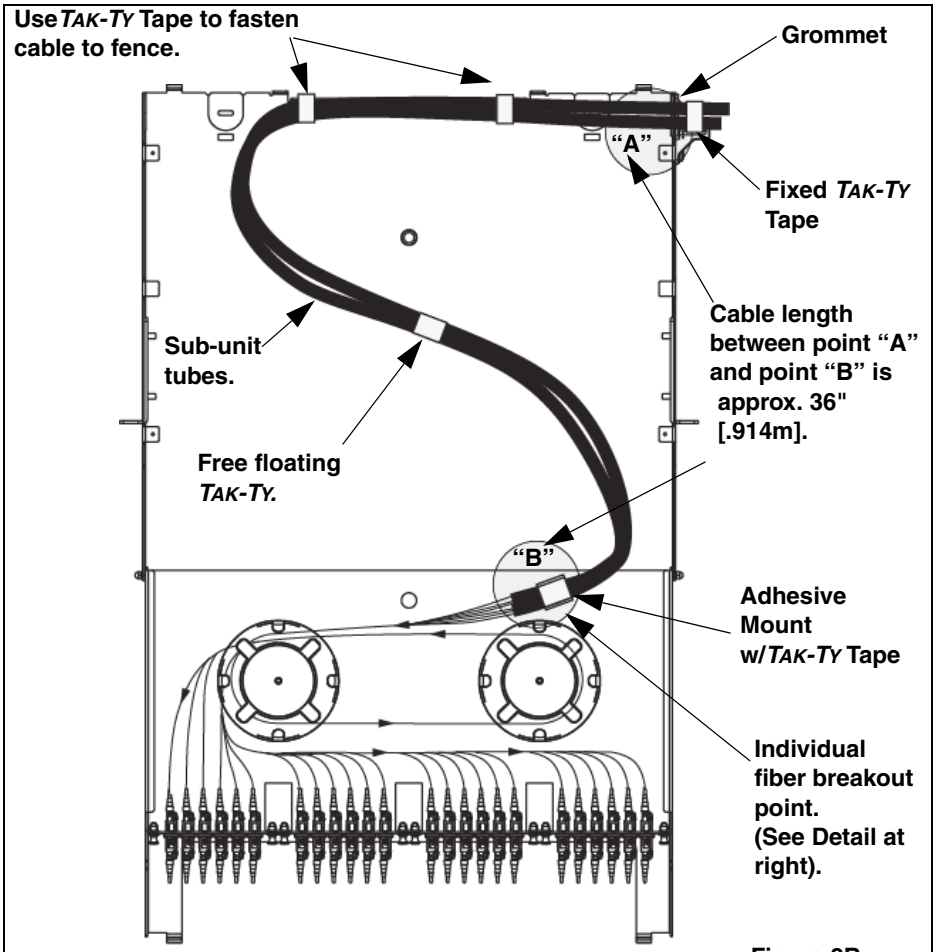
Figure 8



Fully extend drawer to ensure proper amount of slack is used.

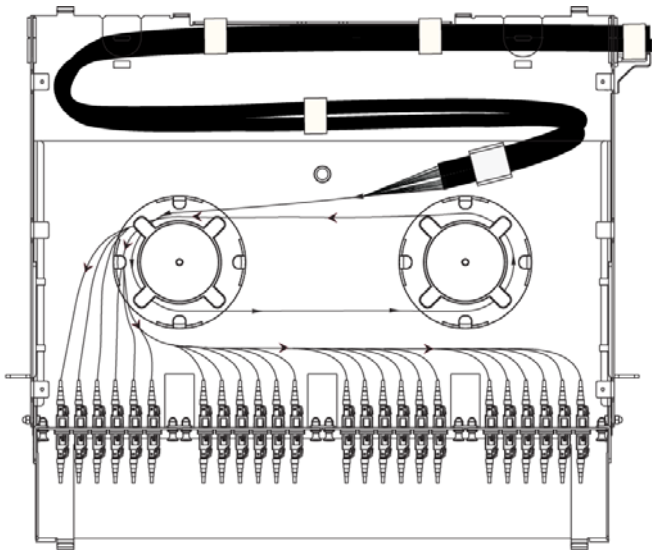
Isometric view showing drawer fully extended and tilted down (cables omitted for clarity).

Figure 8A



Drawer in extended position.

Figure 8B

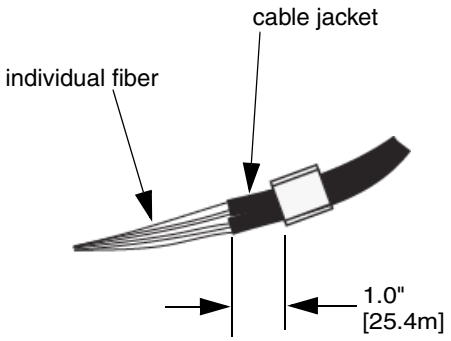


Drawer in home position

Figure 8C

Route fiber through grommet as shown. Use enough cable length to ensure one complete loop **(approx. 52" [1.32m])** of individual fibers around slack spools. Leave enough jacketed slack so when the drawer is fully extended the cables are not put under tension. However, do not use so much slack that drawer cannot be returned to its home position. (See Figure 8C)

Use *TAK-TY* Tape to secure fiber cords at cable entry location and other points as shown.



Fiber Breakout Detail

Be sure adhesive mount secures jacketed Trunk cable. DO NOT clip individual 900µm buffered fibers.

FOSM Fiber Optic Splice Module Installation

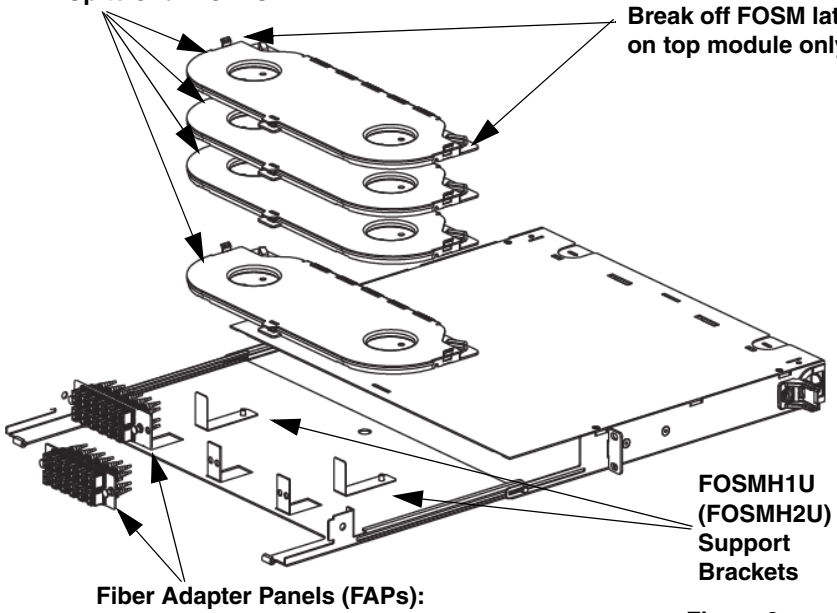
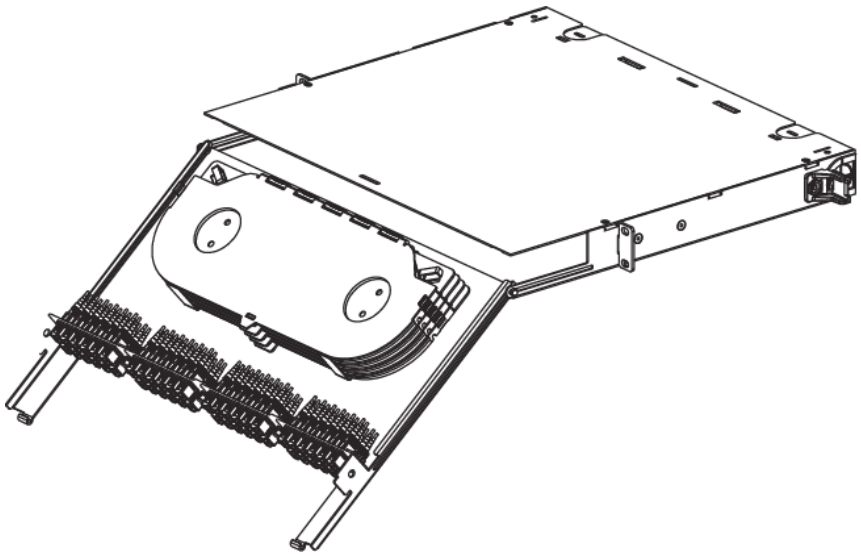


Figure 9

Place "L" shape support brackets over #10-32 studs on sliding tray, note orientation. Place first FOSMH1U (FOSMH2U) on top of "L" shape support brackets, note orientation and secure with #10-32 hex nuts. Remaining FOSMs are stacked on top of each other and snap in place.

If 4 FOSMs are to be installed in the FCE1U or FCE1UA, side latches on top module must be broken off to close enclosure drawer.

Position FAPs between upright flanges as shown. Once mounted, fully seat NyLatch fasteners to secure FAPs.

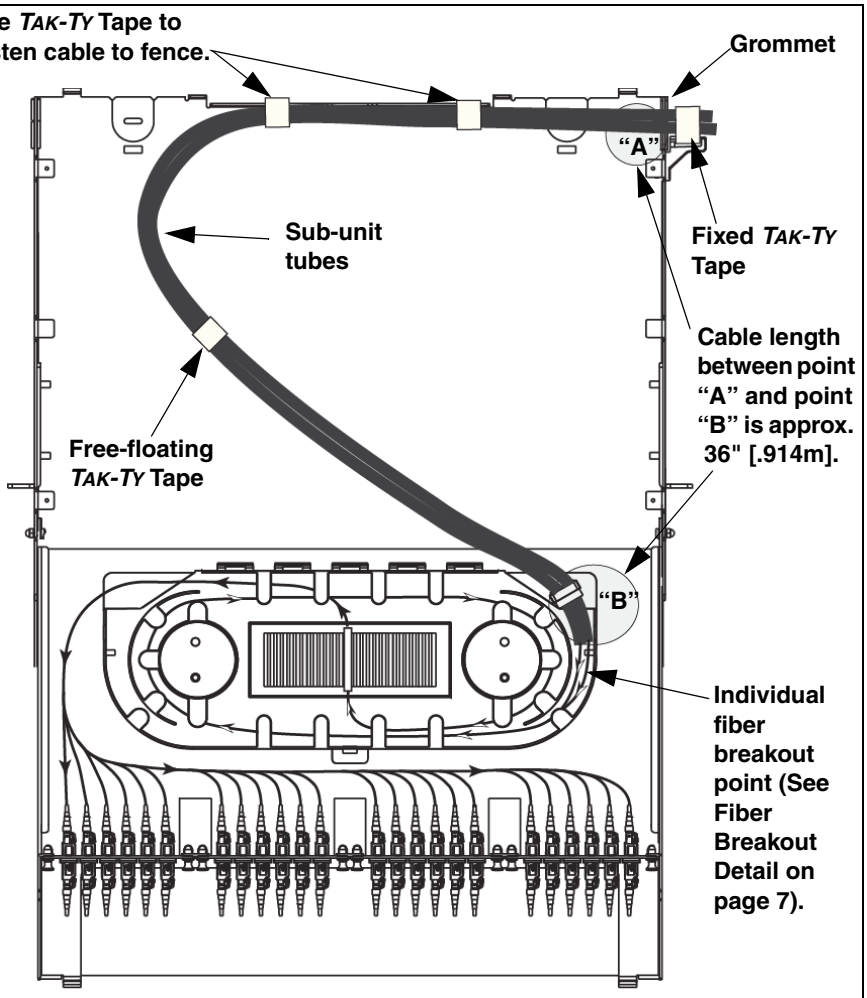


Isometric view showing drawer fully extended and tilted down (cables omitted for clarity).

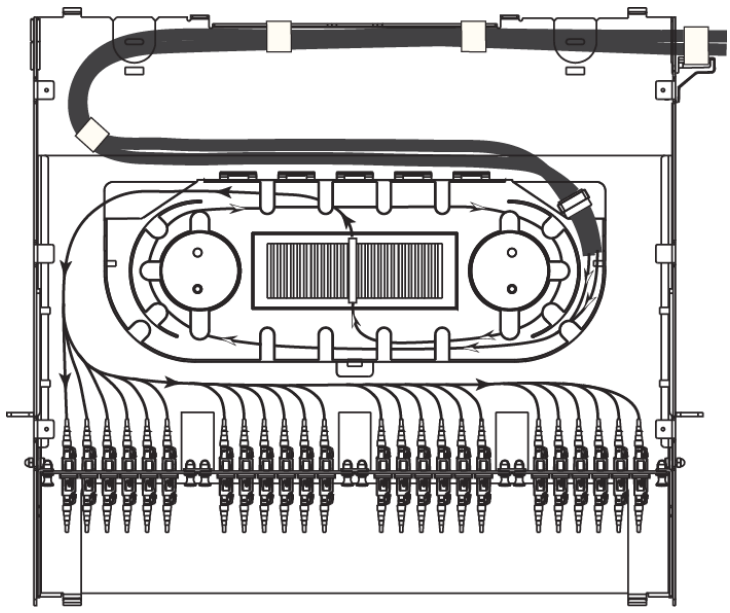
Figure 9A

Fully extend drawer to ensure proper amount of slack is used.

Finish splicing in each FOSM before adding/stacking subsequent FOSMs.



Drawer in extended position **Figure 9B**



Drawer in home position **Figure 9C**

Route fiber through grommet as shown. Use enough cable length to ensure one complete loop **(approx. 45" [1.15m])** of individual fibers around FOSM slack spools.

Route 900µm buffered fiber from the trunk cable and splice to pigtail per instructions in FS001, "*OPTICOM* Fiber Optic Splice Module Installation Instructions."

Leave enough jacketed slack so when the drawer is fully extended the cables are not put under tension. However, do not use so much slack that the drawer cannot be returned to its home position. (See Figure 9C)

Use *TAK-TY* Tape to secure fiber cords at cable entry location and other points as shown.

Patch Cord Bend Radius Clip Installation

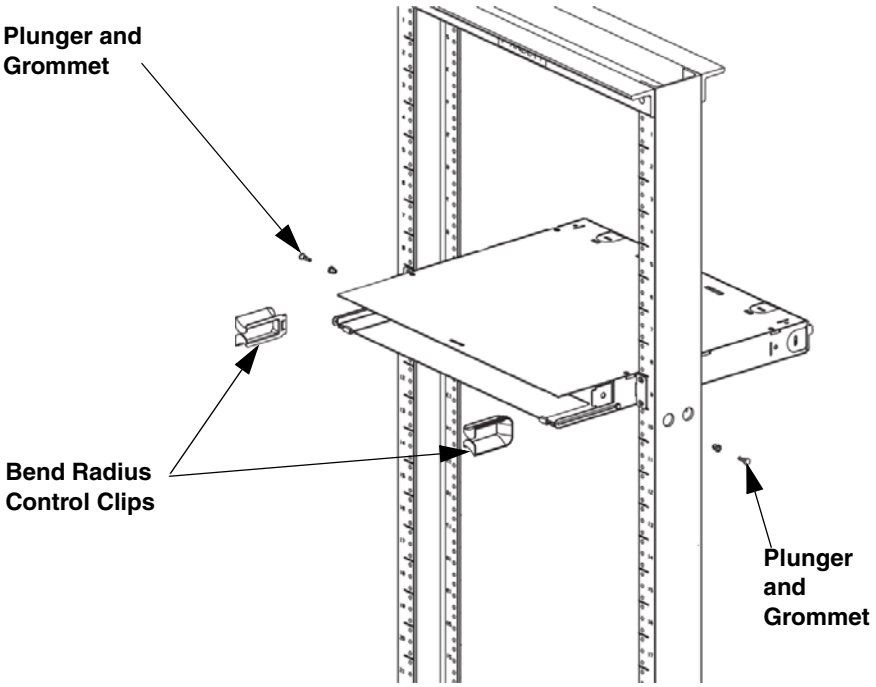


Figure 10

Install plunger into grommet, but do not fully seat. Slide bend radius clips over sliding tray flange as shown. Push grommet/plunger through bend radius clip and sliding tray flange holes. Finally fully seat plunger into grommet securing bend radius clip.

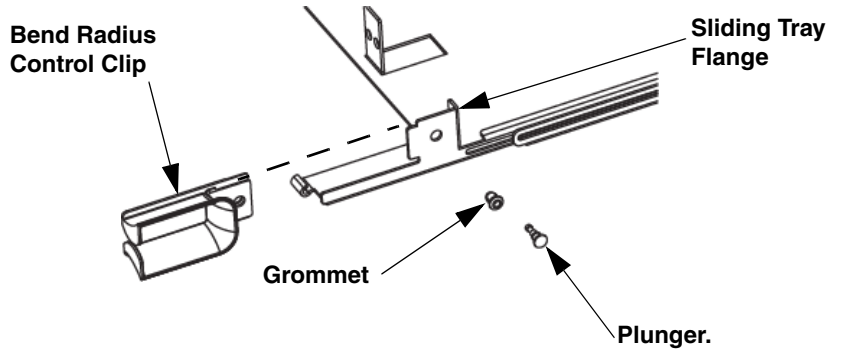


Figure 10A

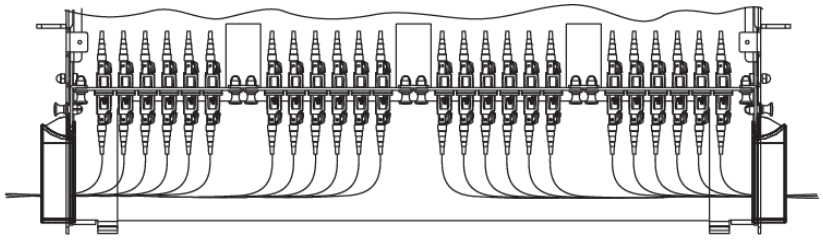


Figure 11

Install patch cords into FAPs/cassettes routing through bend radius control clips and maintaining proper patch cord bend radius.

Cover and Door Re-Attachment

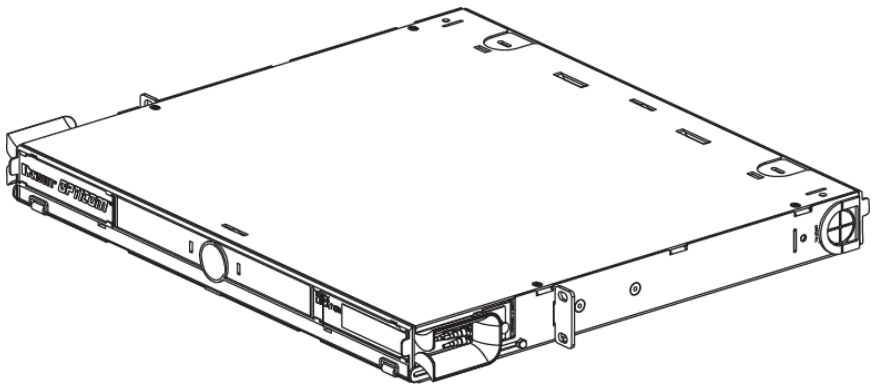


Figure 12

Re-install top cover, front door and rear door assemblies, if removed during fiber installation.

Attach Laser Warning Label and Caution Label where they are clearly visible.