Opticom QuickNet Rack Mount
# Fiber Cassette Enclosures

Part Numbers: FCE1U, FCE1UA, FCE2U

INSTALLATION INSTRUCTIONS

FS006D

| FCE1U | FCE1UA | FCE2U |

CONTENTS: (#) indicates FCE2U quantity

1 - ENCLOSURE
2 (3) - Tak-Tys, 6" pcs.
2 (3) - ADHESIVE MOUNTS
2 - SLACK SPOOLS
1 (2) - #10-32 x 3/8" SCREW
3 (4) - #10-32 HEX NUTS

3 (4) - CABLE ENTRY GROMMETS
4 - #M6 x 1 SCREWS
1 (2) - STRAIN RELIEF BRACKET
4 - CABLE TIES, PLT2S-M0
2 (4) - PLUNGER AND GROMMETS
2 (4) - BEND RADIUS CONTROL CLIPS

4 - #12-24 x 1/2" SCREWS
1 - CAUTION LABEL
1 - LASER WARNING LABEL
3 - ADHESIVE BEVEL 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
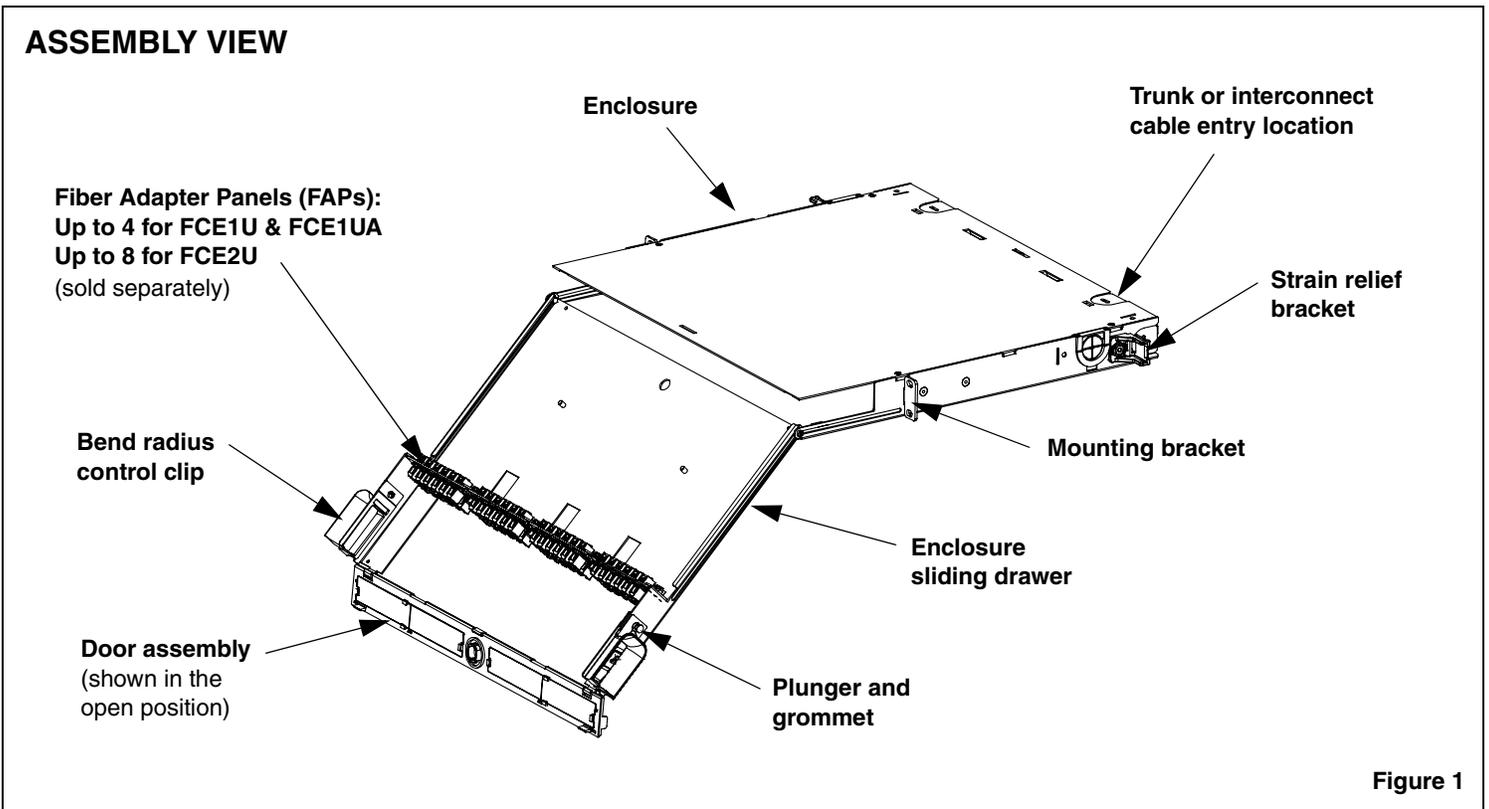
Figure 1

Preparation and Rack Mounting


Figure 2
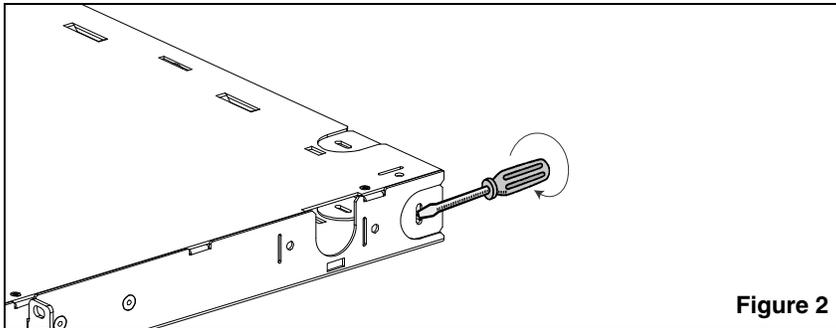
Determine where the cable will enter the enclosure. Carefully remove the knock-out so as not to damage the surrounding sheet metal.

DO NOT Install grommet at this stage. Grommet will be installed after the enclosure is mounted to the rack.

Mounting brackets
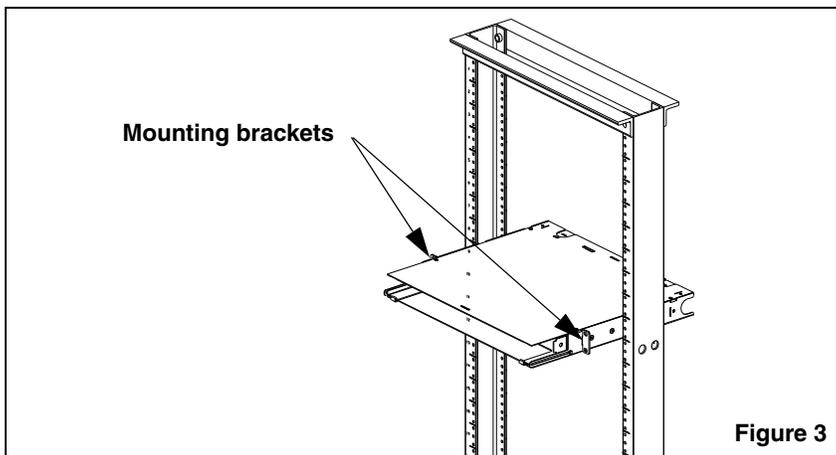
Figure 3

Place the mounting brackets at the desired position on the rack.

Use (2) #12-24 X 1/2" screws (provided). Repeat for other side.
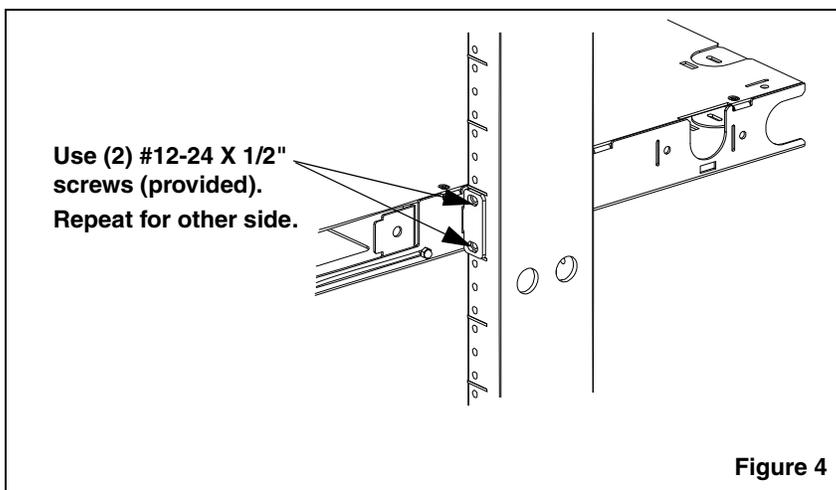
Figure 4

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.

Grommet Cutting Diagram

Cut out the small circle for 1" dia. innerduct

Cut the straight lines for smaller bundle sizes

Cut out the small circle for 1-1/4" dia. innerduct

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

Cut the straight lines when not using any innerduct
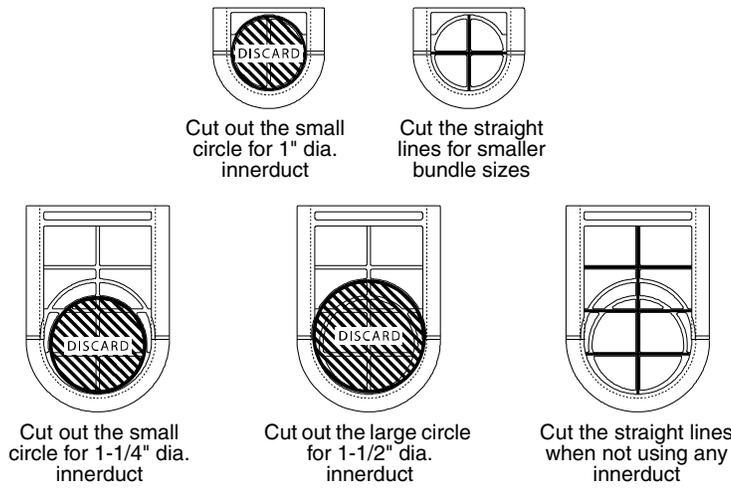
Figure 5

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. Prepare grommet(s) according to the proper cutting diagram to the left.
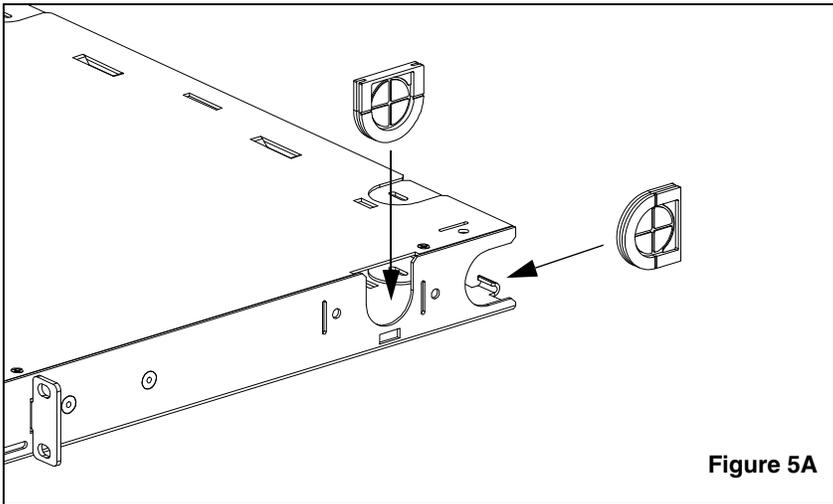
Figure 5A

Install grommets as desired.

#10-32 x 3/8" screw

Strain relief bracket

#10-32 hex nut
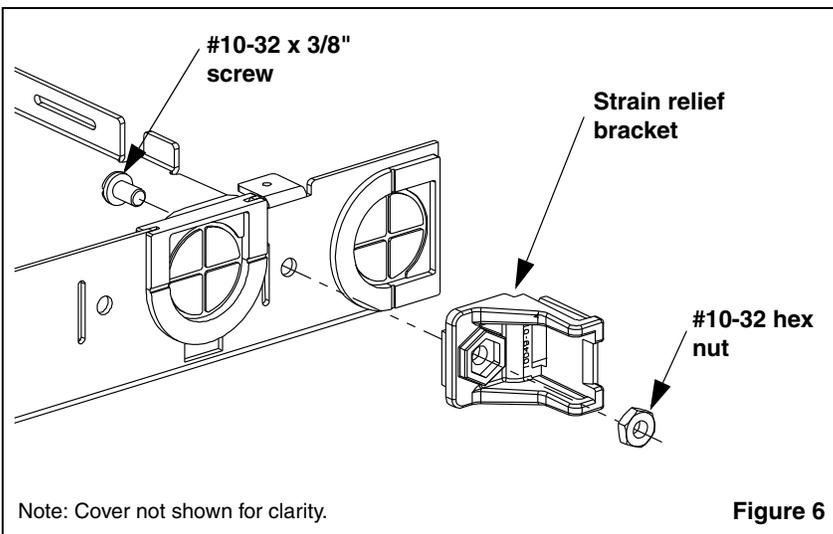
Note: Cover not shown for clarity.   **Figure 6**

Install the strain relief bracket near where the cable will enter the enclosure. Secure with #10-32 x 3/8" screw and #10-32 hex nut.

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## QuickNet Cassette Installation (cassettes not included)
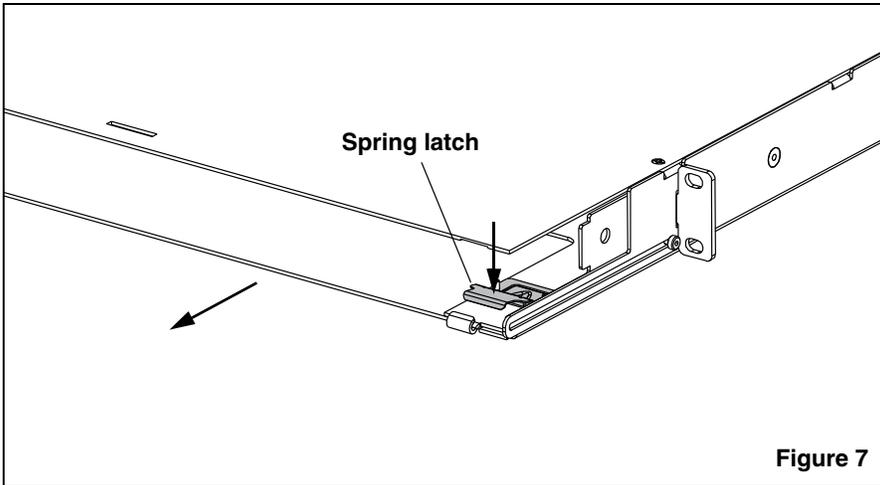
Depress spring latch and pull sliding tray out to the extended position.

Spring latch

Figure 7

Insert QuickNet Pre-Terminated Fiber Optic Cassettes into the enclosure as shown. Once mounted, fully seat NyLatch fasteners to secure the cassettes.
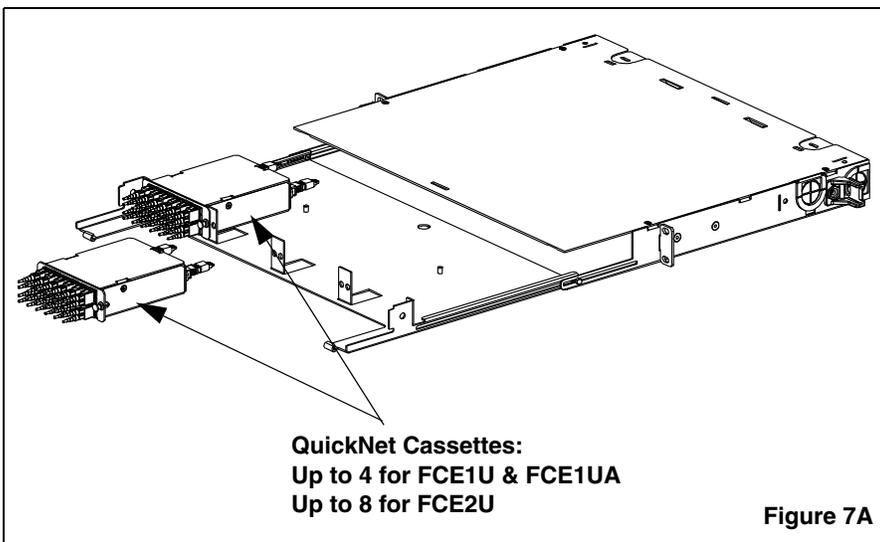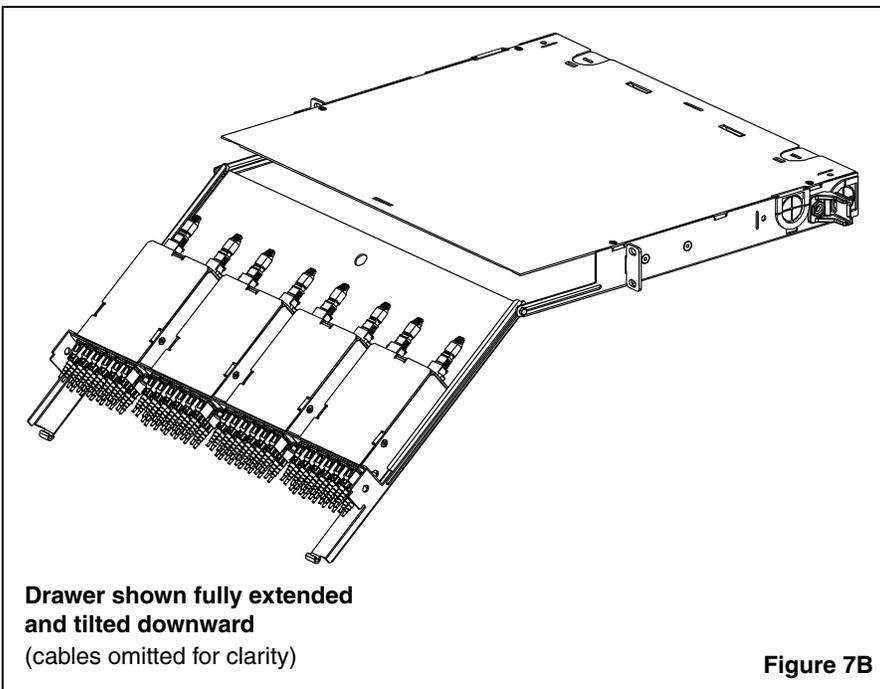
QuickNet Cassettes:
Up to 4 for FCE1U & FCE1UA
Up to 8 for FCE2U

Figure 7A

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

Drawer shown fully extended
and tilted downward
(cables omitted for clarity)

Figure 7B

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Tak-Ty cables to fence

Grommet

Fixed Tak-Ty

"A"

Cable length between point "A" and point "B" is approx. 34" [.864m].

Free floating Tak-Ty

"B"

Adhesive bevel entry clips (Note location and position of clips)

Drawer in extended position

Note: Cover not shown for clarity.   **Figure 7C**
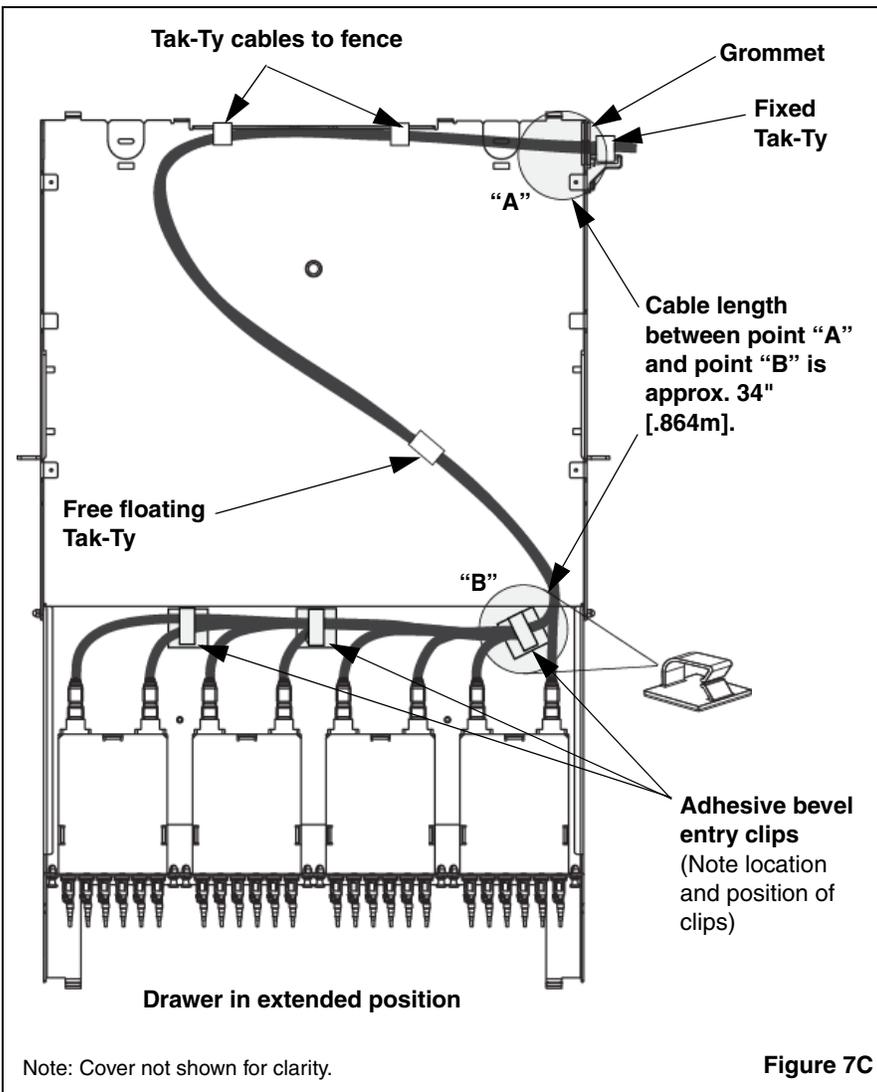
Route fiber through grommet to fiber cassettes as shown. Leave enough slack so when the drawer is fully extended the cables are not put under tension. DO NOT use so much slack that the drawer cannot be returned to its home position. (See Figure 7D)

Use Tak-Tys to secure fiber cords at cable entry location and other points as shown.

Drawer in home position

Note: Cover not shown for clarity.   **Figure 7D**

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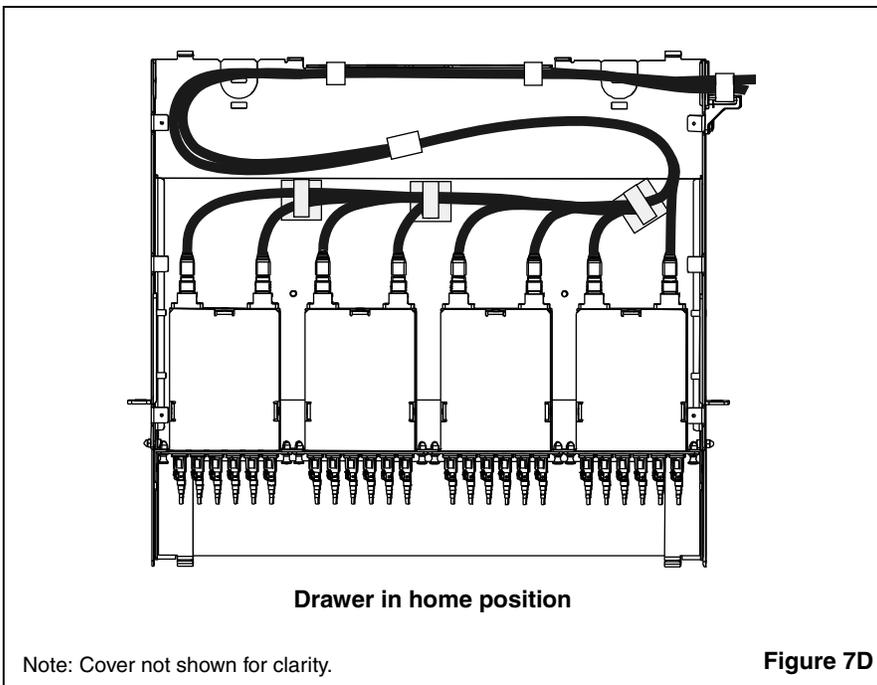
Field Termination or Pre-Terminated Trunk Installation

Fiber Adapter Panels (FAPs):
Up to 4 for FCE1U & FCE1UA
**Up to 8 for FCE2U**
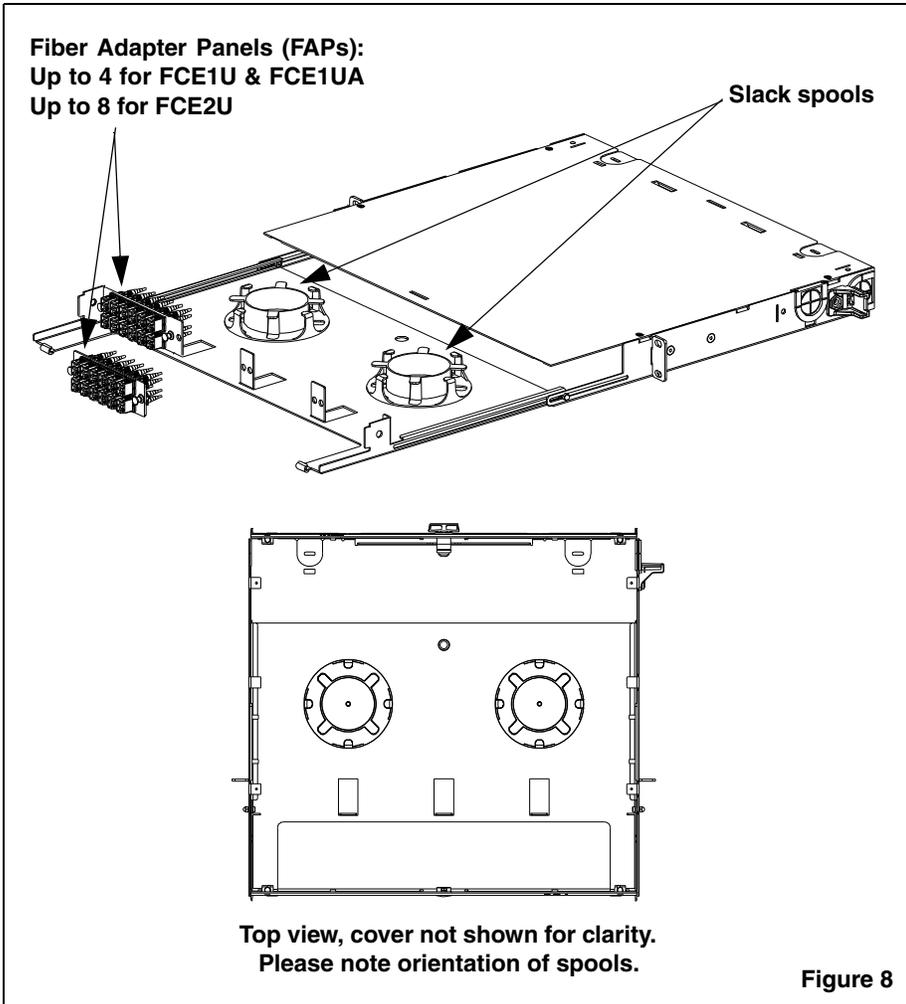
Slack spools

Place slack spools over #10-32 studs on sliding tray. Secure with #10-32 hex nuts and/or adhesive mounts (make 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.
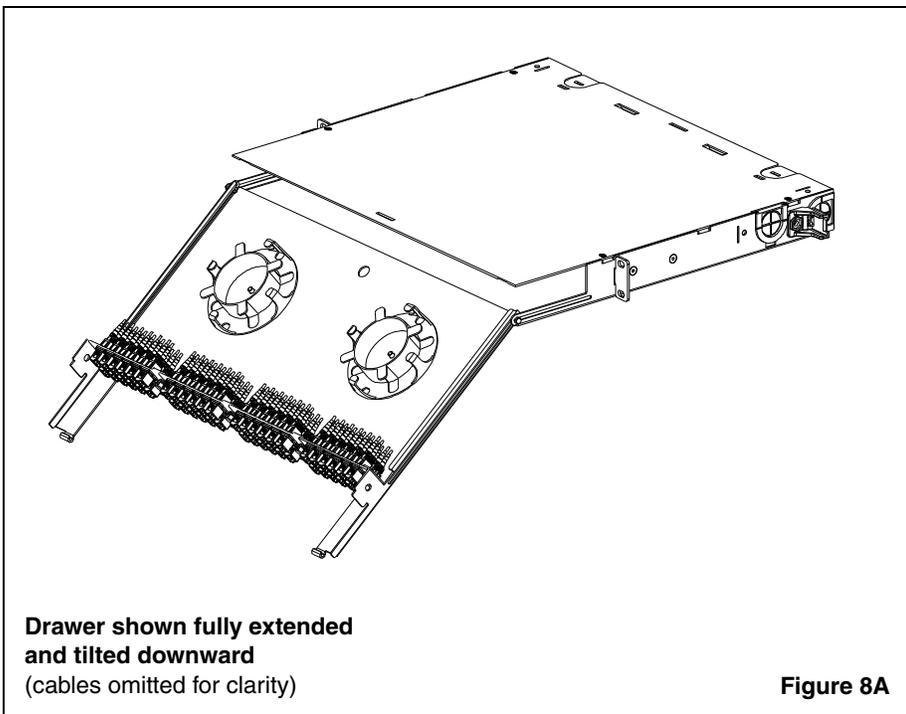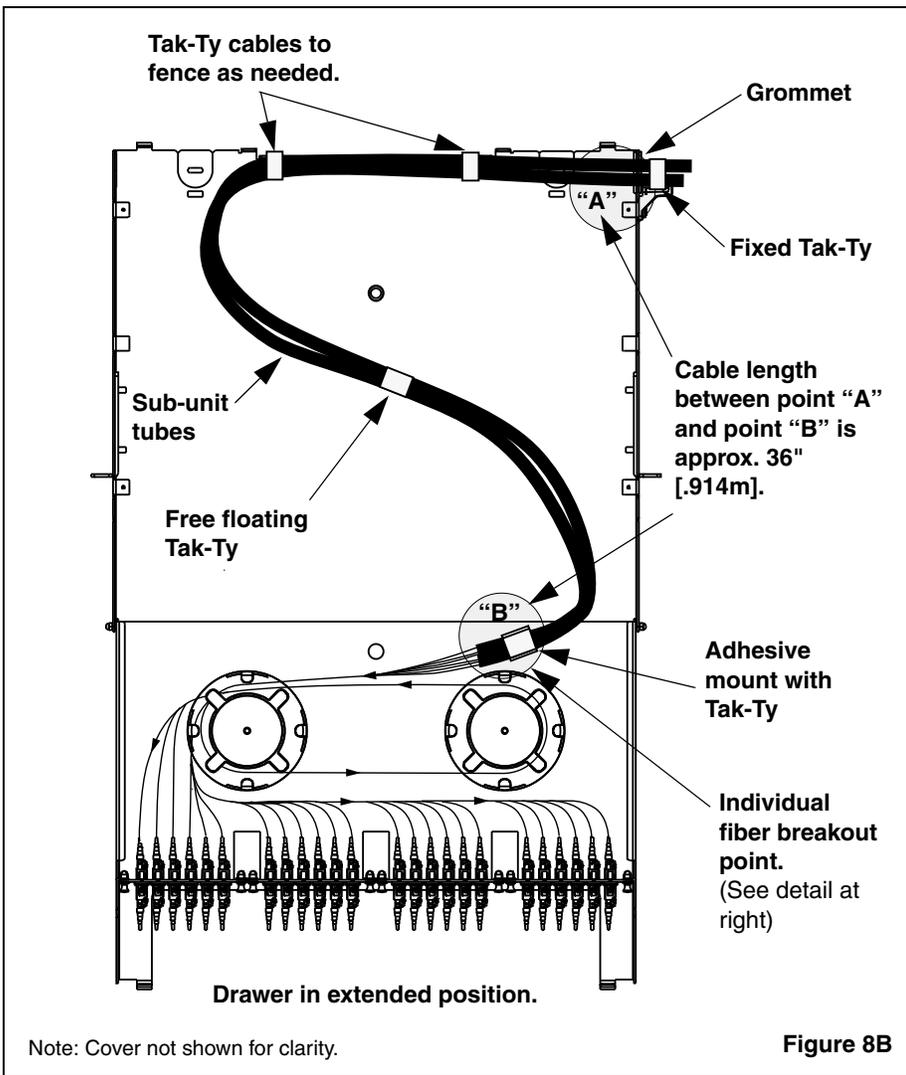
Top view, cover not shown for clarity.
Please note orientation of spools.

Figure 8

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

Drawer shown fully extended
and tilted downward
(cables omitted for clarity)

Figure 8A

Tak-Ty cables to fence as needed.

Grommet

"A"

Fixed Tak-Ty

Sub-unit tubes

Cable length between point "A" and point "B" is approx. 36" [.914m].

Free floating Tak-Ty

"B"

Adhesive mount with Tak-Ty

Individual fiber breakout point.
(See detail at right)

Drawer in extended position.

Note: Cover not shown for clarity.   **Figure 8B**

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. DO NOT use so much slack that the drawer cannot be returned to its home position (See Figure 8C).

Use Tak-Tys to secure fiber cords at cable entry location and other points as shown.

Cable Jacket

Individual Fiber

1.0"
[25.4m]
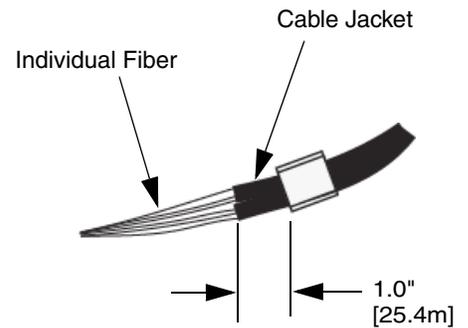
Fiber Breakout Detail
Be sure adhesive mount secures jacketed trunk cable. DO NOT clip individual 900μm buffered fibers.

Drawer in home position

Note: Cover not shown for clarity.   **Figure 8C**

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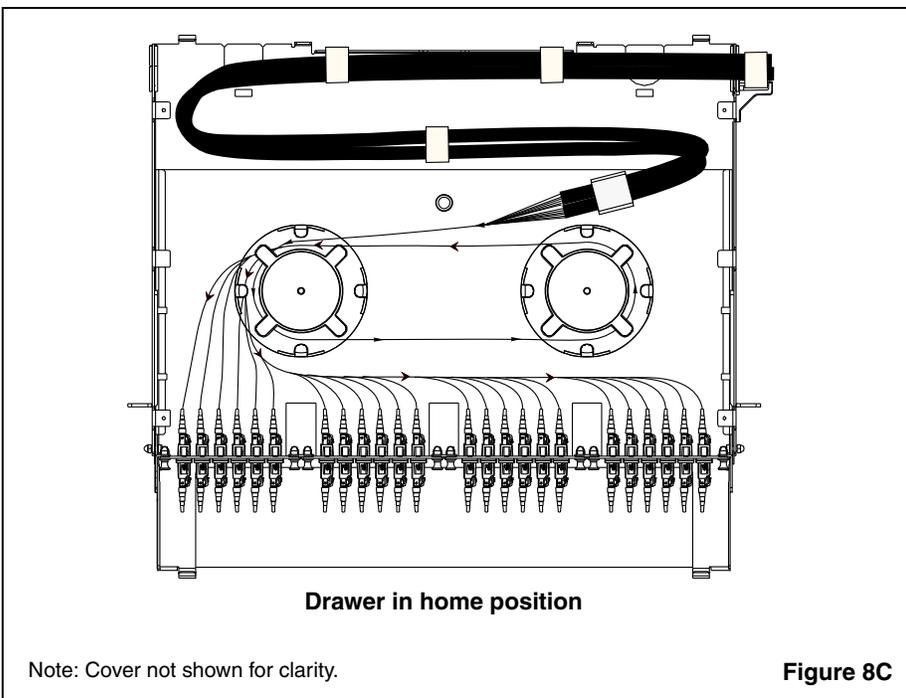
FOSMF Fiber Optic Splice Module Installation (FOSMFs not included)

FOSMF:
Up to 4 for FCE1U & FCE1UA
Up to 8 for FCE2U

Break off FOSMF latch on top module only

FOSMF Holder (Panduit Part number FOSMH1U for FCE1U, FOSMH2U for FCE2U or FOSMH4U for FCE4U)

Fiber Adapter Panels (FAPs):
Up to 4 for FCE1U & FCE1UA
Up to 8 for FCE2U
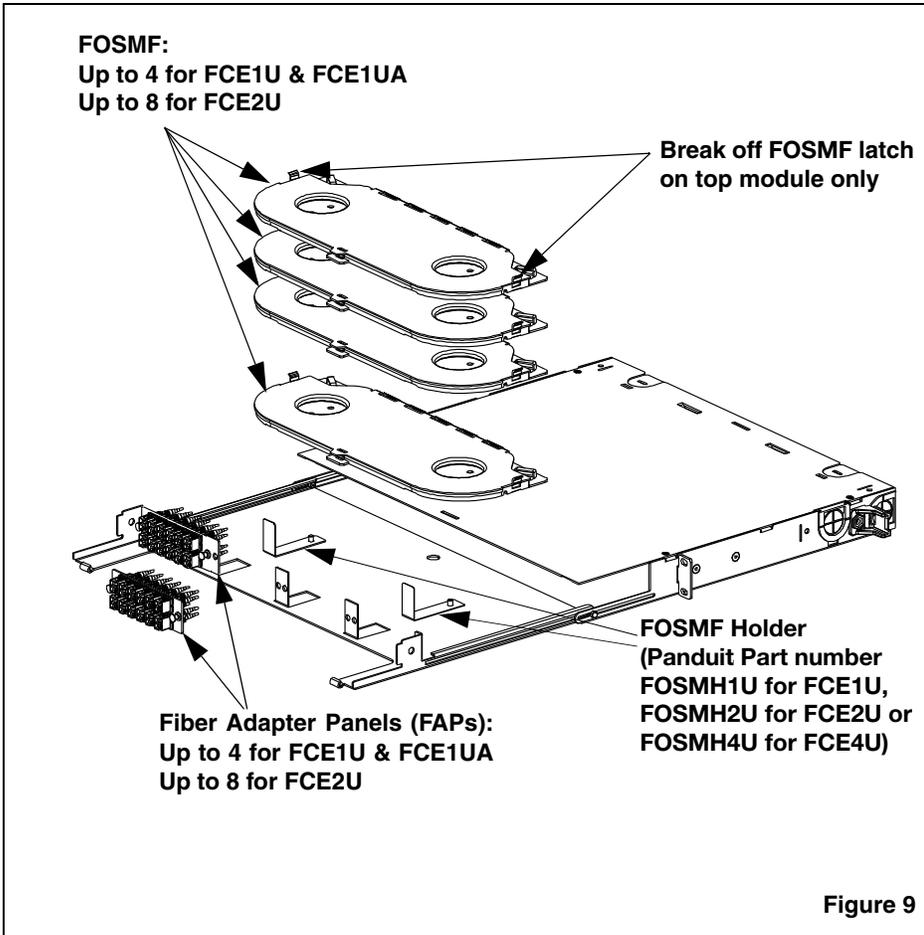
Place FOSMF Holder (Panduit part number FOSMH1U for FCE1U, FOSMH2U for FCE2U or FOSMH4U for FCE4U) over #10-32 studs on sliding tray, note orientation. Place first FOSMF on top of "L" shape support brackets and secure with #10-32 hex nuts. Remaining FOSMFs are stacked on top of each other and snap in place.

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

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

Figure 9
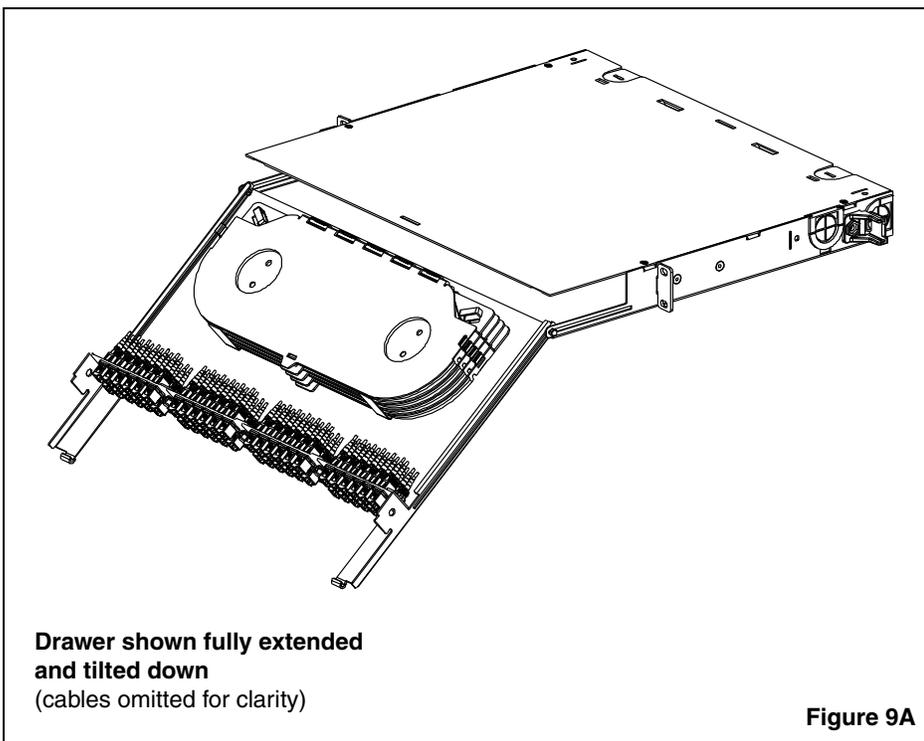
Fully extend drawer to ensure proper amount of slack is used.

Finish splicing in each FOSMF before adding/stacking subsequent FOSMFs.
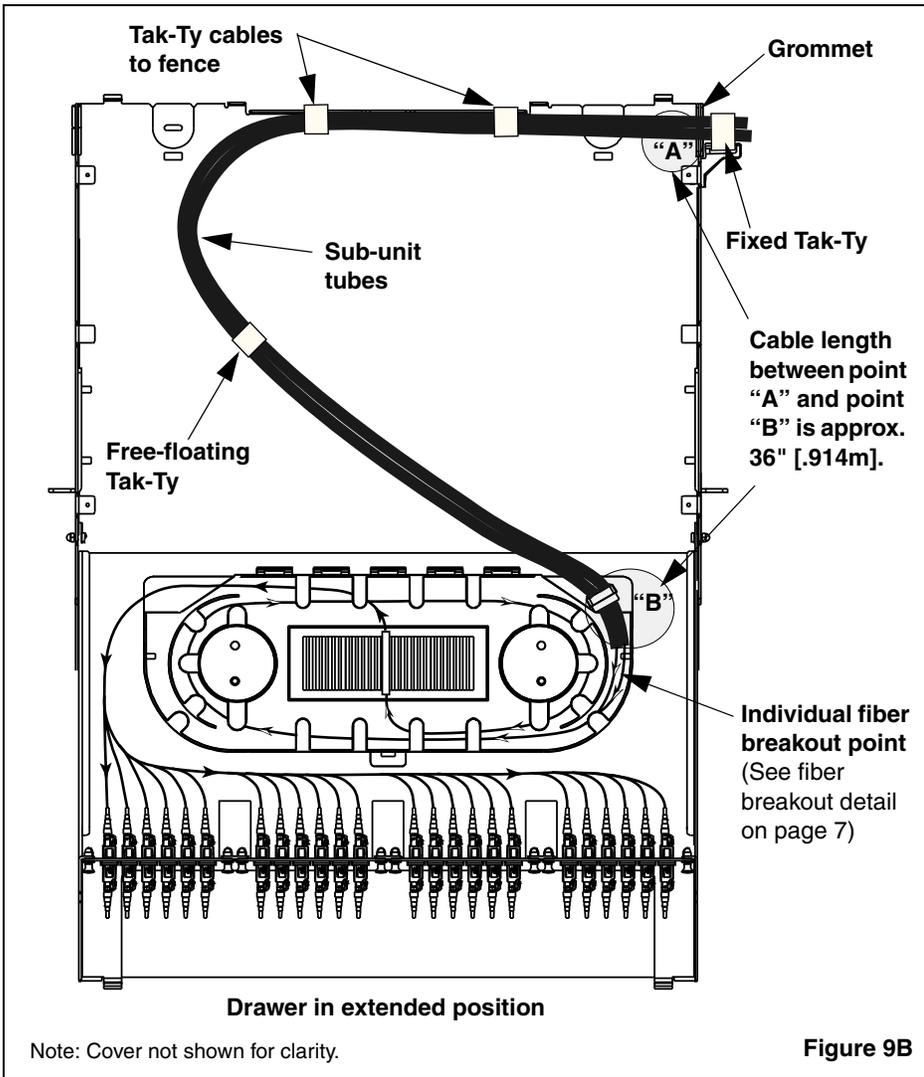
Drawer shown fully extended and tilted down
(cables omitted for clarity)

Figure 9A

Drawer in extended position

Note: Cover not shown for clarity.   **Figure 9B**

Route fiber through grommet as shown. Use enough cable length to ensure one complete loop (approx. 45" [1.15m]) of individual fibers around FOSMF 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. DO NOT use so much slack that the drawer cannot be returned to its home position (See Figure 9C).

Use Tak-Tys to secure fiber cords at cable entry location and other points as shown.

Drawer in home position

Note: Cover not shown for clarity.   **Figure 9C**
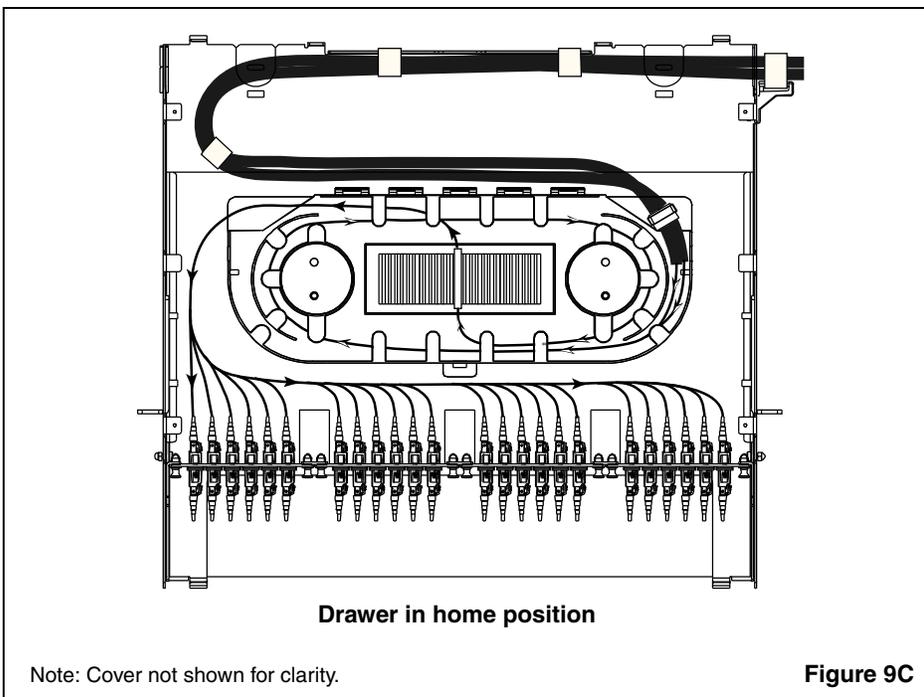
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Patch Cord Bend Radius Control Clip Installation

Plunger and grommet

Bend radius control clips

Plunger and grommet

Figure 10

Bend radius control clip

Sliding tray flange

Plunger and grommet

Figure 10A
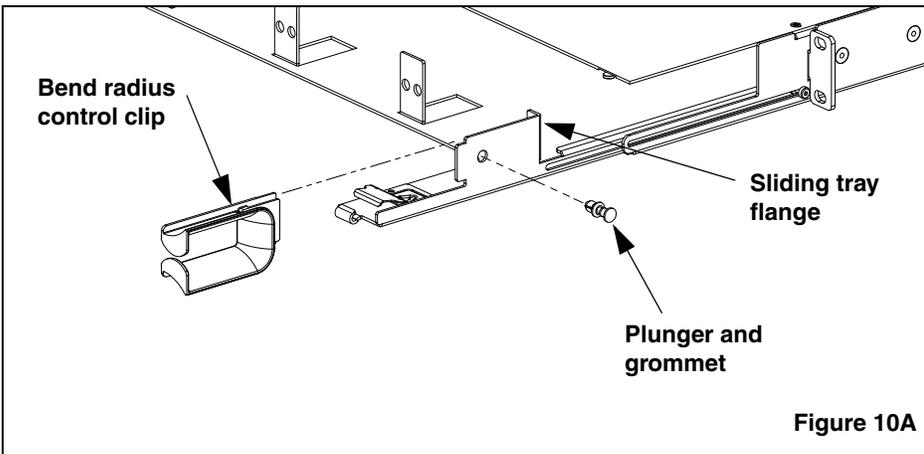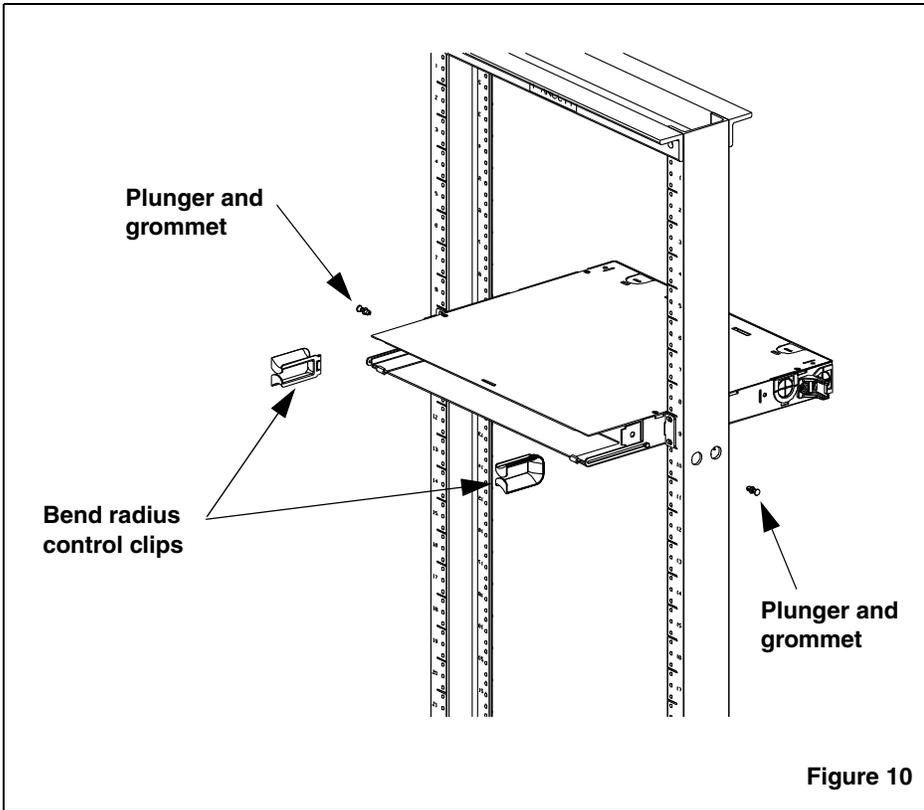
Slide bend radius control clip over sliding tray flange as shown. Push plunger/grommets through bend radius control clip and sliding tray flange hole. Fully seat plunger into grommet to secure the clip. Repeat for the other side.
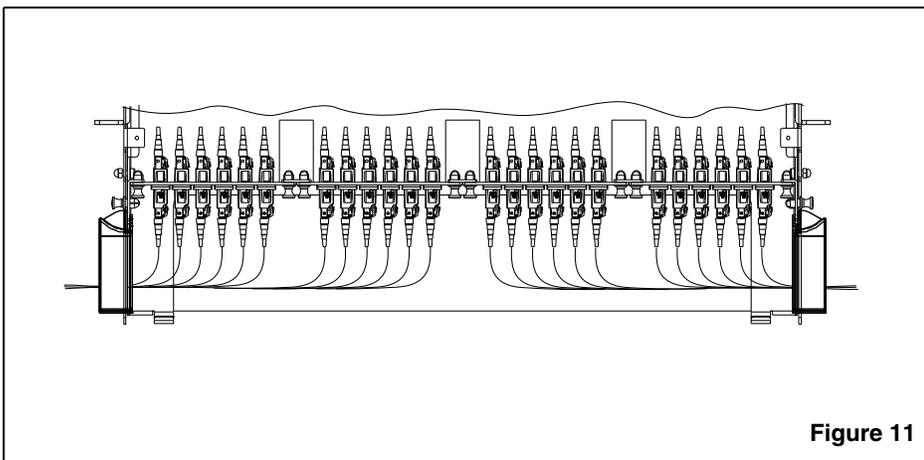
Install patch cords into FAPs/cassettes routing through bend radius control clips and maintaining proper patch cord bend radius.

Figure 11

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Door Re-Attachment

Figure 12
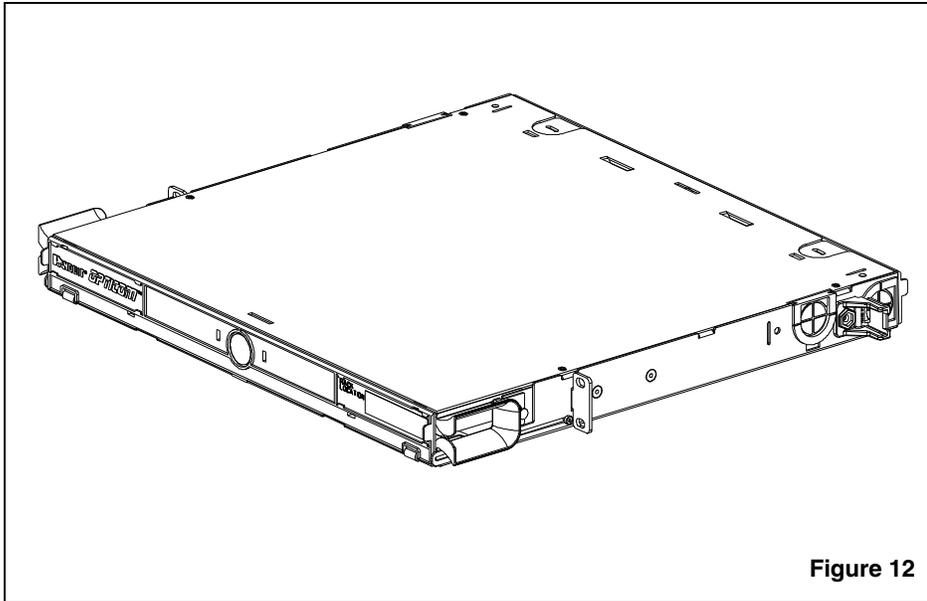
Re-install front door and rear door assemblies, if removed during fiber installation.

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