# PANDUIT

# Opticom Rack Mount Fiber Enclosure - 22 RU

Part Number: FRME22U

**INSTALLATION INSTRUCTIONS** **FS021**

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**Contents:**

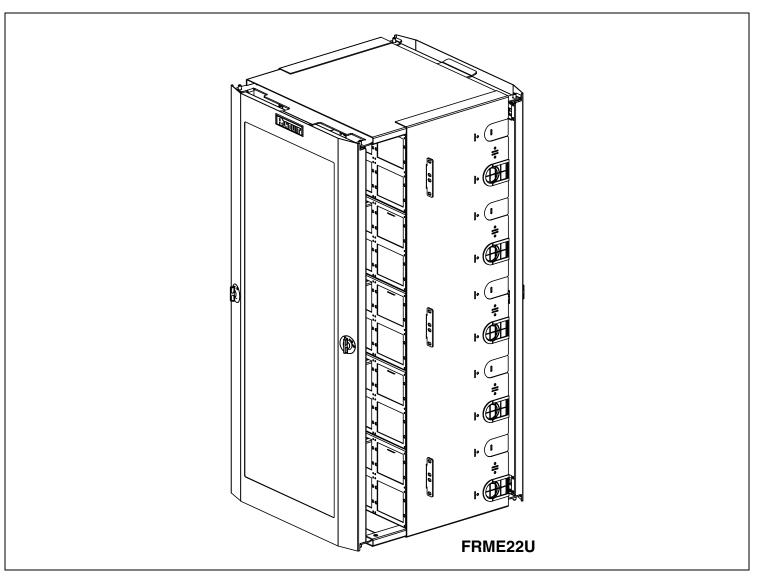| | | |
|---|---|---|
| 1 - ENCLOSURE | 10 - #10-32 HEX NUTS | 80 - LABEL HOLDERS |
| 12 - #12-24 X 1/2" SCREWS | 10 - STRAIN RELIEF BRACKETS | 80 - PORT I.D. LABELS |
| 12 - M6 X 1 SCREWS | 20 - GROMMETS (10 INSTALLED | 1 - CAUTION LABEL |
| 10 - #10-32 X 3/8" SCREWS | AND 10 ADDITIONAL) | 1 - LASER WARNING LABEL |

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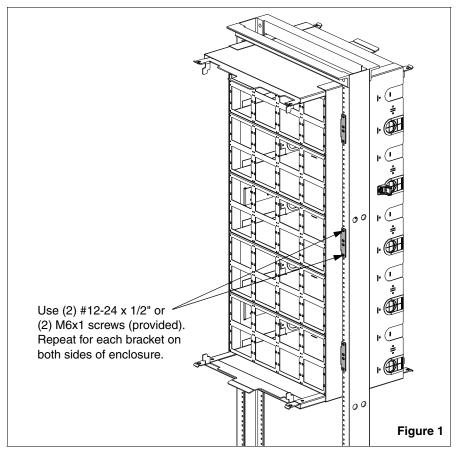
Follow TIA/EIA-568A, 569, 606, and 607 installation guidelines where applicable.

**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 CAP ON UNMATED CONNECTORS.**

Care should be taken when opening and closing fully loaded enclosure in order to protect fiber components.
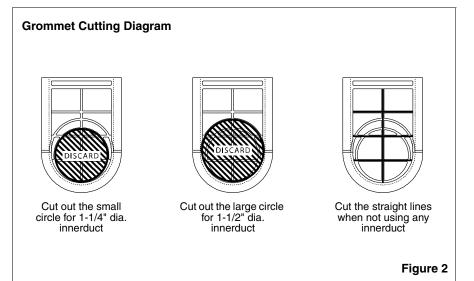


**FRME22U**

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*For Technical Support: www.panduit.com/resources/install_maintain.asp*

## Preparation and Rack Mounting



Use (2) #12-24 x 1/2" or
(2) M6x1 screws (provided).
Repeat for each bracket on
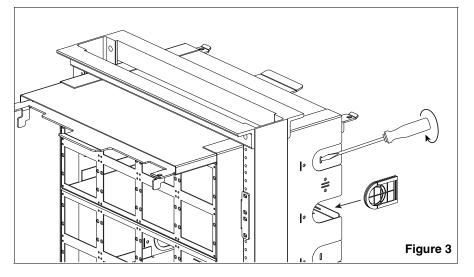both sides of enclosure.

**Figure 1**

Place enclosure mounting brackets at desired position on the rack. Install the screws in the center brackets first to prevent the enclosure from tipping during installation.
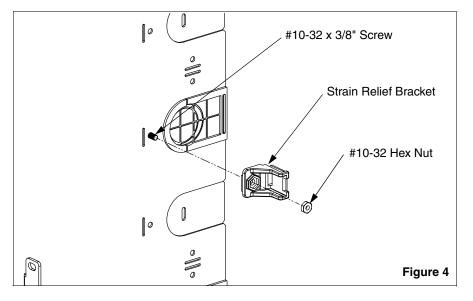
Mount the enclosure to the rack using (12) #12-24 x 1/2" screws. Use the (12) M6x1 screws if mounting to a metric rack.

**Grommet Cutting Diagram**



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 2**

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. Remove pre-installed gromments as needed and prepare using the grommet cutting diagram (Figure 2).
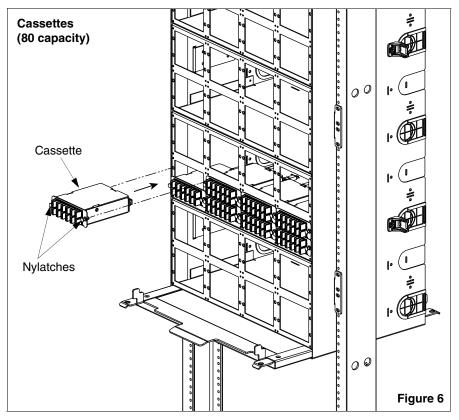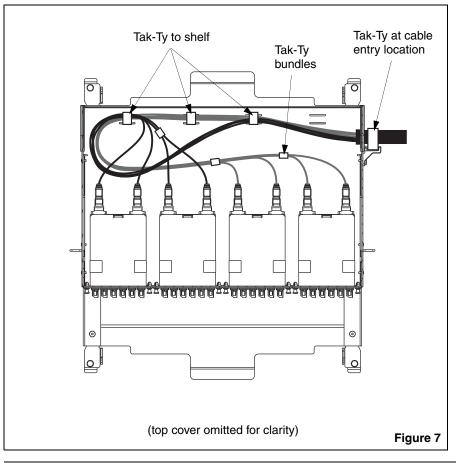
**Figure 3**

The enclosure comes with 10 pre-installed grommets and 10 additional grommets to be used as needed.

If additional entry locations are desired, carefully remove the knock-out making sure not to damage the surrounding metal.

Re-install prepared grommets.

#10-32 x 3/8" Screw

Strain Relief Bracket

#10-32 Hex Nut

**Figure 4**

Install strain relief brackets at each location where the cable will enter the enclosure. Secure with a #10-32 x 3/8" screw and #10-32 hex nut.
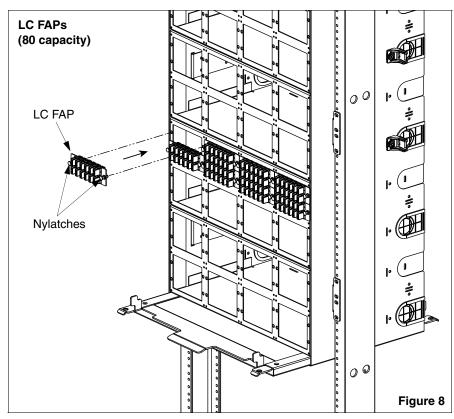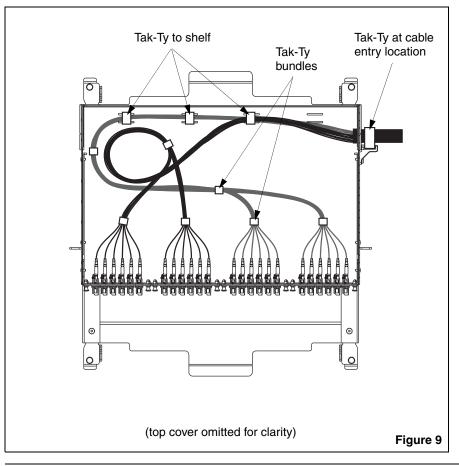
## Opticom QuickNet Cassette Installation

**Cassettes
(80 capacity)**

Cassette

Nylatches

Insert Opticom QuickNet Pre-Terminated Fiber Optic Cassettes into the enclosure as shown. Once mounted, fully seat NyLatches to secure.

**Figure 6**

Tak-Ty to shelf

Tak-Ty at cable entry location

Tak-Ty bundles

Route cable through grommet to fiber cassettes as shown. Routing pattern allows for approx. 1m of slack fiber cable.

Use Tak-Tys (not included) to bundle fiber cables, secure to the shelf and secure at the cable entry location as shown in Figure 7.
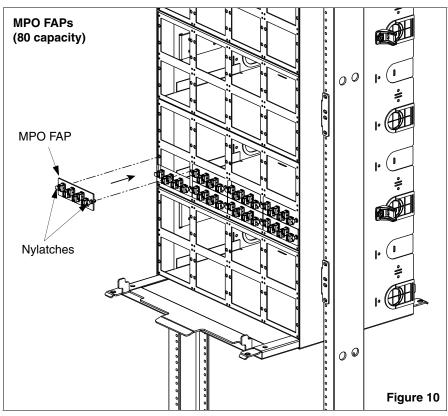
(top cover omitted for clarity)

**Figure 7**

*For Technical Support: www.panduit.com/resources/install_maintain.asp*

## LC FAPs Installation

**LC FAPs
(80 capacity)**

LC FAP

Nylatches

**Figure 8**

Insert LC FAPs into the enclosure as shown. Once mounted, fully seat NyLatches to secure.

Tak-Ty to shelf

Tak-Ty
bundles

Tak-Ty at cable
entry location

(top cover omitted for clarity)

**Figure 9**

Route cable through grommet to LC FAPs as shown. Routing pattern allows for approx. 1m of slack fiber cable.

Use Tak-Tys (not included) to bundle fiber cables, secure to the shelf and secure at the cable entry location as shown in Figure 9.
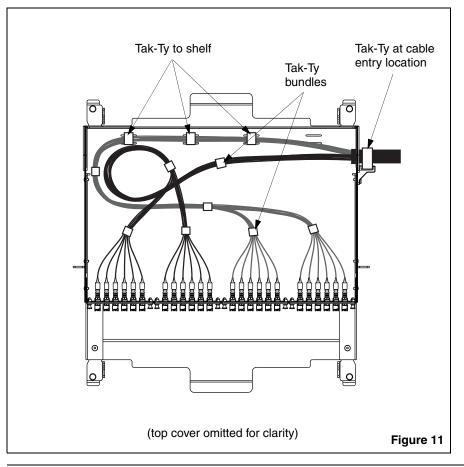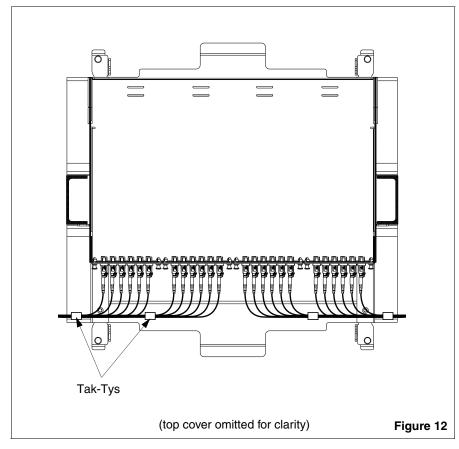
*For Technical Support: www.panduit.com/resources/install_maintain.asp*

## MPO FAPs Installation

**MPO FAPs
(80 capacity)**

MPO FAP

Nylatches

**Figure 10**

Insert MPO FAPs into the enclosure as shown. Once mounted, fully seat NyLatches to secure.

Tak-Ty to shelf

Tak-Ty at cable entry location

Tak-Ty bundles

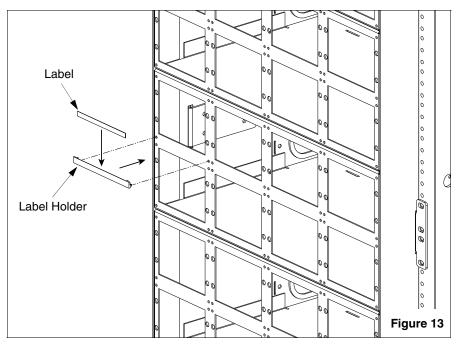(top cover omitted for clarity)

**Figure 11**

Route cable through grommet to MPO FAPs as shown. Routing pattern allows for approx. 1m of slack fiber cable.

Use Tak-Tys (not included) to bundle fiber cables, secure to the shelf and secure at the cable entry location as shown in Figure 11.
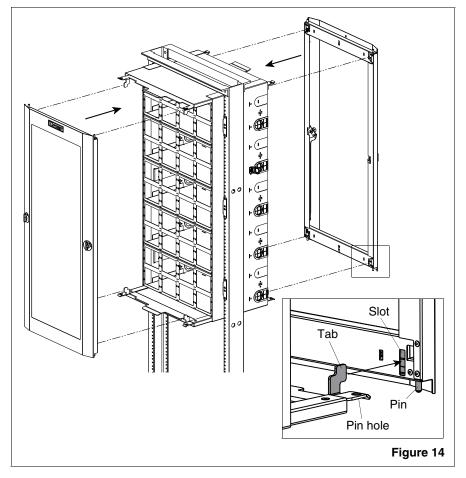
*For Technical Support: www.panduit.com/resources/install_maintain.asp*

## Front Patch Field

Route front patch cables and Tak-Ty bundles as shown.

Tak-Tys

(top cover omitted for clarity)                    **Figure 12**
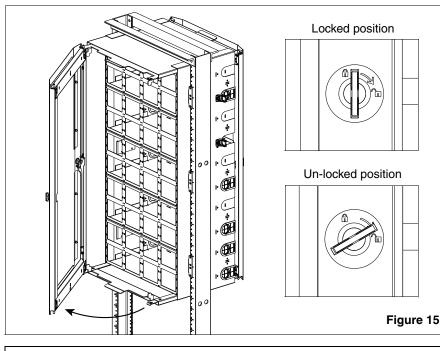
## Label and Label Holder Installation

Insert the label into the label holder as shown. Install label holder onto the enclosure by aligning the posts on the holder with the holes in the enclosure as shown. Press firmly to secure.

Label

Label Holder

**Figure 13**

## Door Installation



The doors have a straight push install design. Align the slots on the doors with the tabs on the enclosure and push until you hear an audible click. Once engaged properly, the pin on the door will drop into the pin hole on the enclosure to secure the door in place.

**Figure 14**

## Door Operation and Removal



Locked position

Un-locked position

The doors can swing open from either side of the enclosure. To open the door, turn one latch to the un-lock position and swing door open as shown.

To remove a door, turn both latches to the un-lock position, grasp door firmly on each side and pull door straight off.

**Figure 15**