

# RTC Fiber Optic Enclosure Installation Procedure



## 1. General

Thank you for purchasing OCC's redesigned RTC fiber optic enclosure. With this purchase, you can be assured you are receiving the industry's best fiber optic termination enclosure offering easy terminations, integrated cable management, and flexible high-density options.

These instructions detail the recommended installation procedures for OCC's RTC rack mount fiber optic enclosures. Part numbers:

RTC1U  
RTC2U  
RTC4U

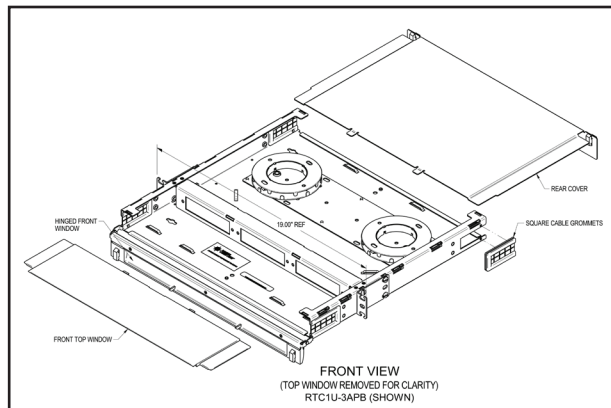
## 2. Safety Information

Safety glasses are recommended to install this enclosure.

Disconnected optical components may emit invisible optical radiation that can damage your eyes. Never look directly into an optical component that may have a laser coupled to it.

Always use proper tools and/or accessories to terminate fibers and clean connectors. Always dispose of fiber debris properly.

## 3. Assembly View



## 4. Contents

Prior to installing your RTC fiber optic enclosure, please check the contents of this package to ensure that it contains:

- 1 - RTC enclosure
- 1 - Rear cover
- 1 - Plexiglas front top cover
- 2 - Mounting brackets
- 1 - Port I.D. label
- 2 - Cable management hoops (1U or 2U) or 4 - Cable management hoops (4U)
- 4 - Cable entry/exit grommets
- 1 - Accessory kit that includes cable ties, velcro strap, rack mounting screws (4), mounting bracket screws (8)

## 5. Optional Accessories

Part No.	Description
TCSRBB	Strain relief bracket
TCHOOPS	Short hoops, stackable, set of 2
TCHOOPT	Tall hoops, stackable, set of 2

Adapter plates and splice kits sold separately. Visit [www.occfiber.com](http://www.occfiber.com) for ordering information

Ensure you have the proper adapter plates for the fiber enclosure. The HD adapter plates will only mount into an HD fiber enclosure. Both products will have 'HD' in the part number. Standard fiber enclosures will only accept the 600 series adapter plates.

Custom configurations available. Consult the OCC Sales Team.

## 6. Rack Mounting Installation

- 6.1 Affix the rack mounting brackets to the fiber enclosure using the enclosed #10-32 x 5/16" screws. The brackets are designed to be utilized to mount the fiber enclosure to a 19" or 23" equipment rack or cabinet. If mounting to a 19" equipment rack or cabinet, the long side of the brackets are affixed to the side of the enclosure. If mounting to a 23" equipment rack or cabinet, the short side of the bracket is affixed to the side of the enclosure. See Figure 1.



Figure 1

- 6.2 Mount the fiber enclosure to the equipment rack or cabinet at the desired height. Using the (4) 12-24 1/2" screws provided, (2) on each side, secure the enclosure. See Figure 2.

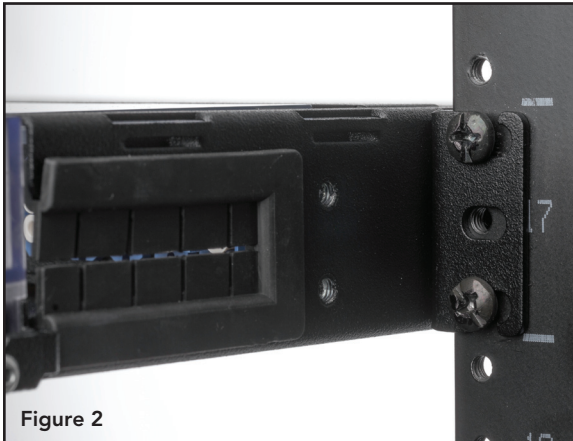


Figure 2

- 6.3 Install the adapter plates (purchased separately) into the enclosure bulkhead by pushing the locking pins at the ends of the adapter plates into mounting slots to secure them. See Figure 3.



Figure 3

## 7. Fiber Installation

- 7.1 Determine which cable entry port will be utilized for rear cable entry. If utilizing an OCC Strain Relief Bracket (sold separately), mount the Strain Relief Bracket appropriately using the screws provided. See Figure 4.



Figure 4

- 7.2 Measure a minimum of 48" from the end of the cable and make a mark. Route cable through the cable entry port until the mark on the cable is even with the velcro/cable tie mount. Secure the cable with tie wraps or velcro to the Strain Relief Bracket (if used). See Figure 5.

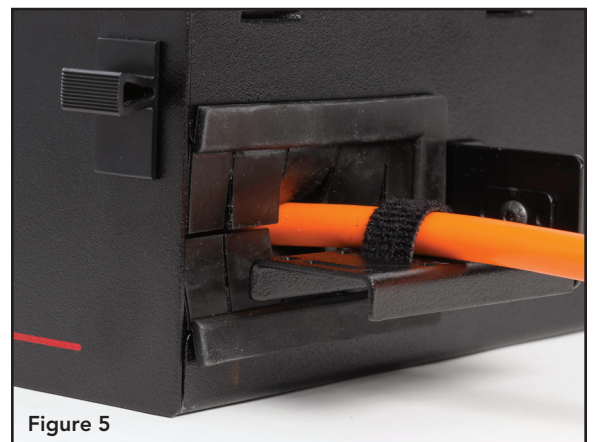
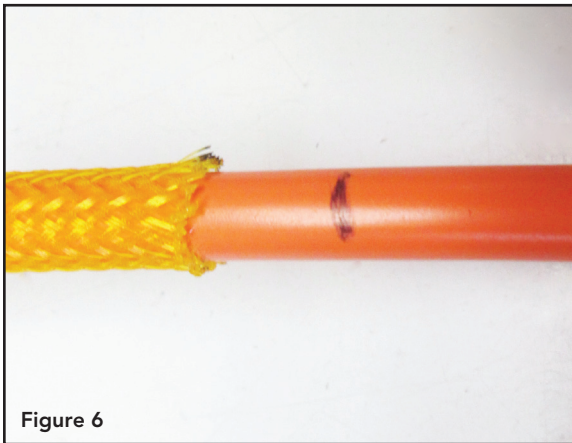
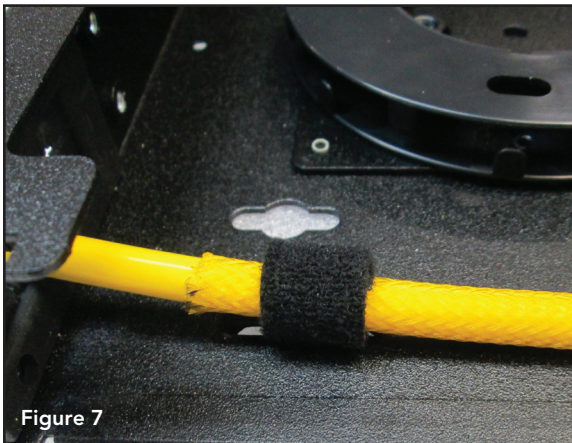


Figure 5

- 7.3 Slip protective nylon sock over the cable and slide it down the cable past the mark you have made. See Figure 6.

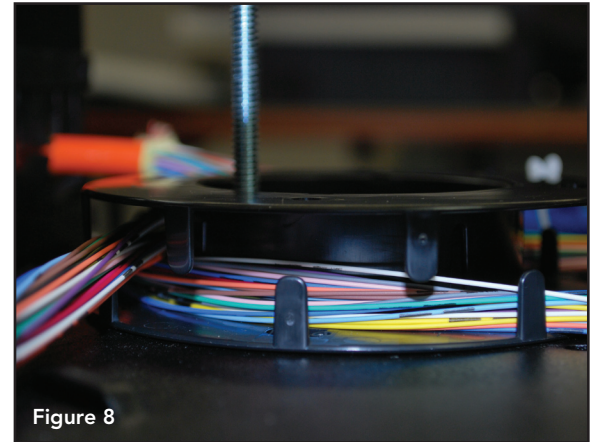


- 7.4 Strip outer jacket back to the mark on the cable exposing the 900 micron buffer fiber. Slide the nylon protective sock up over the 900 micron fibers until it is covering only the last inch of the jacketed cable. Secure the nylon protective sock on the cable and secure the cable with velcro tie wraps to velcro/cable tie mount. See Figure 7.

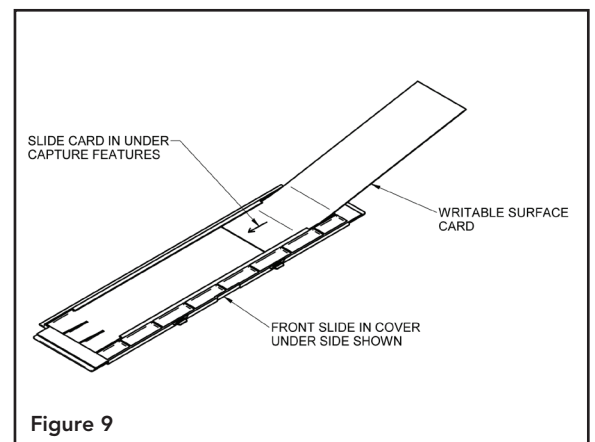


- 7.5 Terminate fibers using appropriate connectors.
- 7.6 Route fibers in protective nylon sock to the fiber routing hoops.

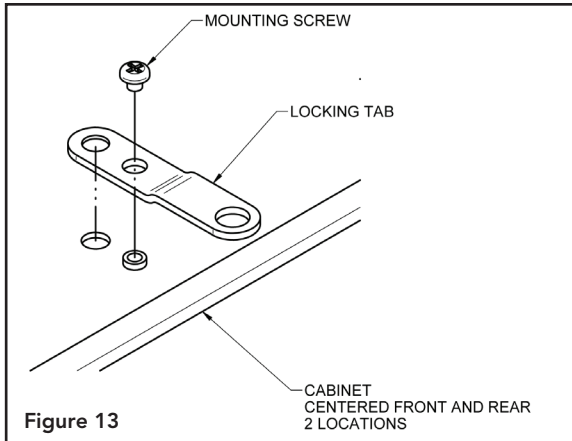
- 7.7 Route individual 900 micron fibers around the fiber routing hoops (ideally for a minimum of one revolution) and plug terminated fiber connectors into the adapter plates, being careful to maintain a proper bend radius. See Figure 8.



- 7.8 Install patch cords in the forward section of the enclosure into the adapter plates. Secure the patch cords to the velcro/cable tie mounts (if desired).
- 7.9 Utilize the provided port ID labeling card and label appropriately following ANSI/TIA-606-B standards. Slide the port I.D. labeling card into the top cover pocket. See Figure 9.



- 7.10 For locking tab installation (ordered separately), attach the locking tab to the back center of the fixed tray using the accompanying screw. See Figure 10.



## 8. Cable Install Applications

OCC fiber enclosures can support many termination solutions including unique configurations customized at the OCC factory. If required, instructions for the below (but not limited to) applications are included with the installed products.

- Utilizing pre-terminated cables
- Utilizing splice trays
- Utilizing fan-out kits
- Utilizing MTP cassettes