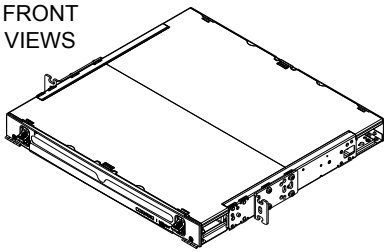


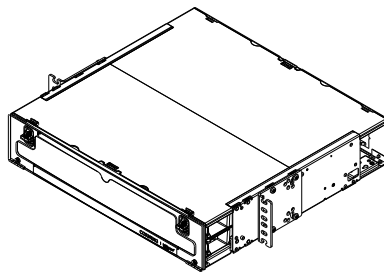
related literature |

003-876-QSG	Instruction, Closet Connector Housings (CCH) 1U/2U/3U Quick Start Guide
003-878	Instruction, Lock Kit for Closet Connector Housings
003-895	Instruction, Splice Cassette (CCH-CS) and Slack Cassette (CCH-CF) for Closet Connector Housings
003-902	Instruction, CCH Recess Mount Kit
003-437	Instruction, CCH Connector Panel

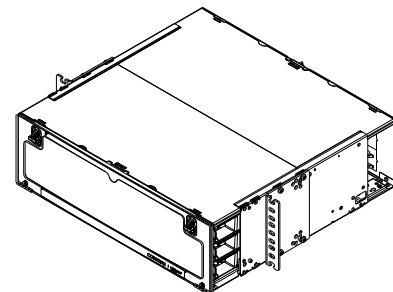
FRONT VIEWS



CCH-01U

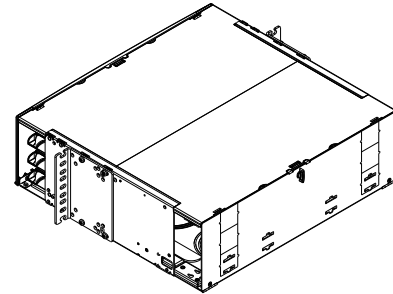
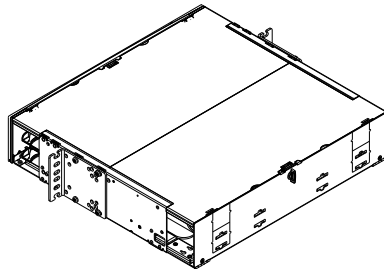
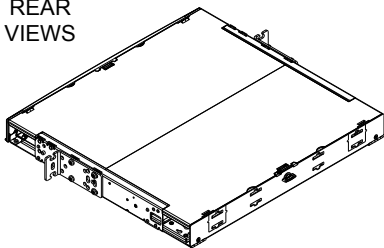


CCH-02U



CCH-03U

REAR VIEWS



Dimensions

H: 1.75 inches  
W: 17.05 inches  
D: 17.06 inches

H: 3.5 inches  
W: 17.05 inches  
D: 17.06 inches

H: 5.25 inches  
W: 17.05 inches  
D: 17.06 inches

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## 1. PRECAUTIONS



**WARNING: Never look directly into the end of a fiber that may be carrying laser light.** Laser light can be invisible and can damage your eyes. Viewing it directly does not cause pain. The iris of the eye will not close involuntarily as when viewing a bright light. Consequently, serious damage to the retina of the eye is possible. Should accidental eye exposure to laser light be suspected, arrange for an eye examination immediately.



**WARNING: DO NOT use magnifiers in the presence of laser radiation.** Diffused laser light can cause eye damage if focused with optical instruments. Should accidental eye exposure to laser light be suspected, arrange for an eye examination immediately.



**CAUTION:** Recommend the use of safety glasses (spectacles) conforming to ANSI Z87, for eye protection from accidental injury when handling chemicals, cables, or working with fiber. Pieces of glass fiber are very sharp and have the potential to damage the eye.



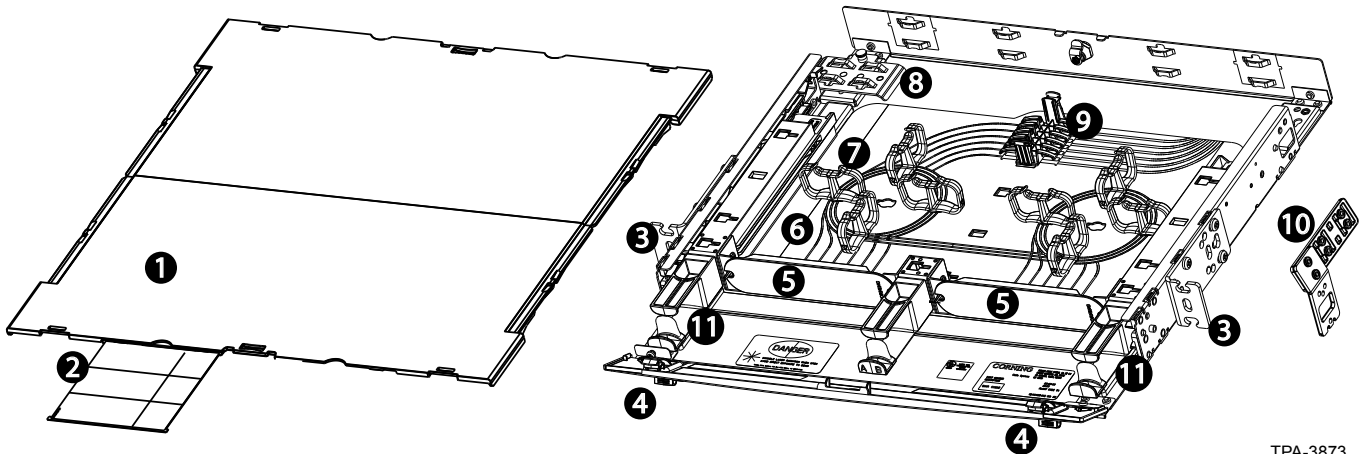
**CAUTION:** Cleaved or broken glass fibers are very sharp and can pierce the skin easily. Do not let these pieces of fiber stick to your clothing or drop in the work area where they can cause injury later. Use tweezers to pick up cleaved or broken pieces of glass fibers and place them on a loop of tape kept for that purpose alone. **Good housekeeping is very important.**



**CAUTION:** The wearing of cut-resistant safety gloves to protect your hands from accidental injury when using sharp-bladed tools and armored cable is strongly recommended. Use extreme care when working with severed armor. There will be a sharp edge where armor is cut. To minimize the chance of injury from the cut armor, cover the exposed edge with a wrap of electrical tape. To minimize the chance of injury from sharp-bladed tools, always cut away from yourself and others. Dispose of used blades and armor scrap properly.

## 2. CARTON CONTENTS

- |                       |                                     |                 |
|-----------------------|-------------------------------------|-----------------|
| 1 Sliding cover       | 6 Sliding tray                      | 11 Jumper guide |
| 2 Label card          | 7 Slack management clip             |                 |
| 3 Mounting bracket    | 8 Internal strain-relief assembly   |                 |
| 4 Door latch          | 9 Transitional strain-relief holder |                 |
| 5 Blank adapter panel | 10 External strain-relief assembly  |                 |



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Figure 1

### 2.1. CCH-01U

- (1) Closet Connector Housing with blank adapter panels as seen in Figure 1
- (1) Hardware Kit containing:
  - (2) Screws, #6 - 32 x .312-inch (for locking the shelf)
  - (4) Screws, 12-24 x .50-inch (for rack-mounting)
  - (4) Screws, 4-24 x .312-inch (for locking the covers)
  - (8) Cable ties, 1/8 x 4 inches, white
  - (4) Cable ties, 8-inch, black
  - (2) CCH Labels, 1.35 x 4-inches
  - (1) External strain-relief bracket with (2) #6 - 32 x .25-inch screws

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## 2.2. CCH-02U

- (1) Closet Connector Housing with blank adapter panels as seen in Figure 1
- (1) Hardware Kit containing:
  - (2) Screws, #6 - 32 x .312-inch (for locking the shelf)
  - (4) Screws, 12-24 x .50-inch (for rack-mounting)
  - (4) Screws, 4-24 x .312-inch (for locking the covers)
  - (8) Cable ties, 1/8 x 4 inches, white
  - (4) Cable ties, 8-inch, black
  - (4) CCH Labels, 1.35 x 4-inches
  - (1) External strain-relief bracket with (2) #6 - 32 x .25-inch screws

## 2.3. CCH-03U

- (1) Closet Connector Housing with blank adapter panels as seen in Figure 1
- (1) Hardware Kit containing:
  - (2) Screws, #6 - 32 x .312-inch (for locking the shelf)
  - (4) Screws, 12-24 x .50-inch (for rack-mounting)
  - (4) Screws, 4-24 x .312-inch (for locking the covers)
  - (8) Cable ties, 1/8 x 4 inches, white
  - (4) Cable ties, 8-inch, black
  - (6) CCH Labels, 1.35 x 4-inches
  - (1) External strain-relief bracket with (2) #6 - 32 x .25-inch screws

## 3. TOOLS AND MATERIALS REQUIRED

### 3.1. Tools

- Phillips-head screwdriver
- Pliers

### 3.2. Materials

The following materials may be required, depending upon your application. These items are ordered separately. Contact your customer services representative for assistance.

- Connector Panels (CCH-CPXX-YY)
- Grounding Kit (FDC-CABLE-GND)
- Additional Internal Strain-relief Brackets (CCH1-STRN-INT)
- Additional External Strain-relief Assembly (CCH1-STRN-EXT)
- Transitional Strain-relief Holder, 2-pk (CCHA-CLIP-BTF-2)
- Housing Lock Kit (CCHA-LOCK-KIT)
- CCH-01U Recess Mount Kit, for 5 housings (CCH1-RECESS-KIT-5)
- CCH-02U Recess Mount Kit, for 5 housings (CCH2-RECESS-KIT-5)
- CCH-03U Recess Mount Kit, for 5 housings (CCH3-RECESS-KIT-5)
- Mounting ears for 23-inch applications (CDF-0XU-23)
- Central member strain-relief kit, 10-pack (CPP-SSR-KIT)
- Universal Cable Clamp (UCC) Kit (UCC-001)
- Buffer Tube Fan-out Kit (FAN-XX-YY)



- Splice Cassette (CCH-CS)
- Storage Cassette (CCH-CF)
- Pigtailed Panels (CCH-CPXX-YY-P03ZZ)
- Pigtailed Modules (CCH-RMXX-YY-P03ZZ)
- Pigtailed Cassettes (CCH-CSXX-YY-P00ZZ)
- Plug & Play™ System Modules

#### 4. MOUNTING THE HOUSING INTO A 19-INCH RACK

Familiarize yourself with the hole locations for mounting and strain-relief bracket screws illustrated in Figure 2, as well as the locations for inserting locking screws for the sliding shelf and the covers.

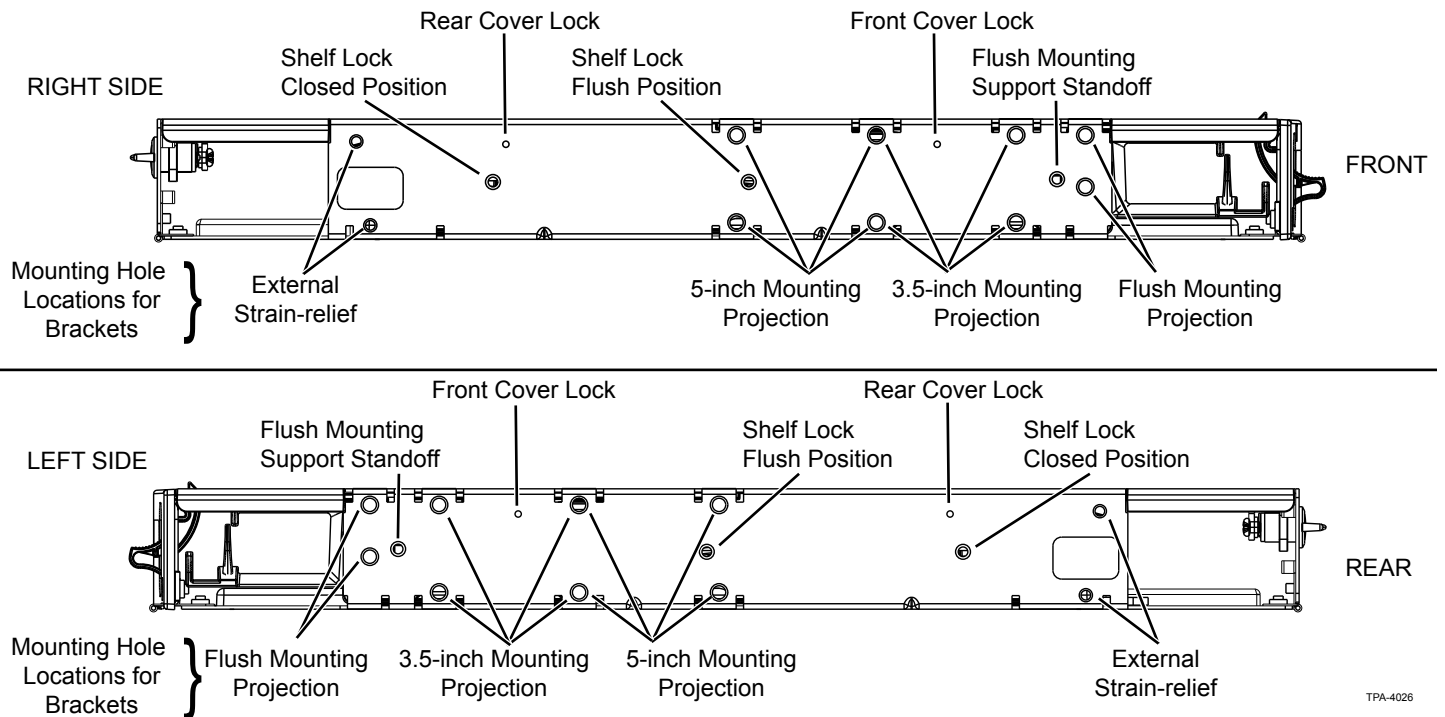


Figure 2

OPTIONAL: If mounting the housing into a 23-inch rack, install the 23-inch rack mounting brackets onto the housing, then follow one of the methods listed below to install the housing into the rack.

## 4.1. (Preferred Method) Mounting an Empty Housing from the Front of the Rack

The mounting brackets are factory-installed for a 5-inch projection of the housing from the front of the rack. If a 3-inch projection is desired, skip to Section 4.1.1. If a flush-mount projection is desired, skip to Section 4.1.2.

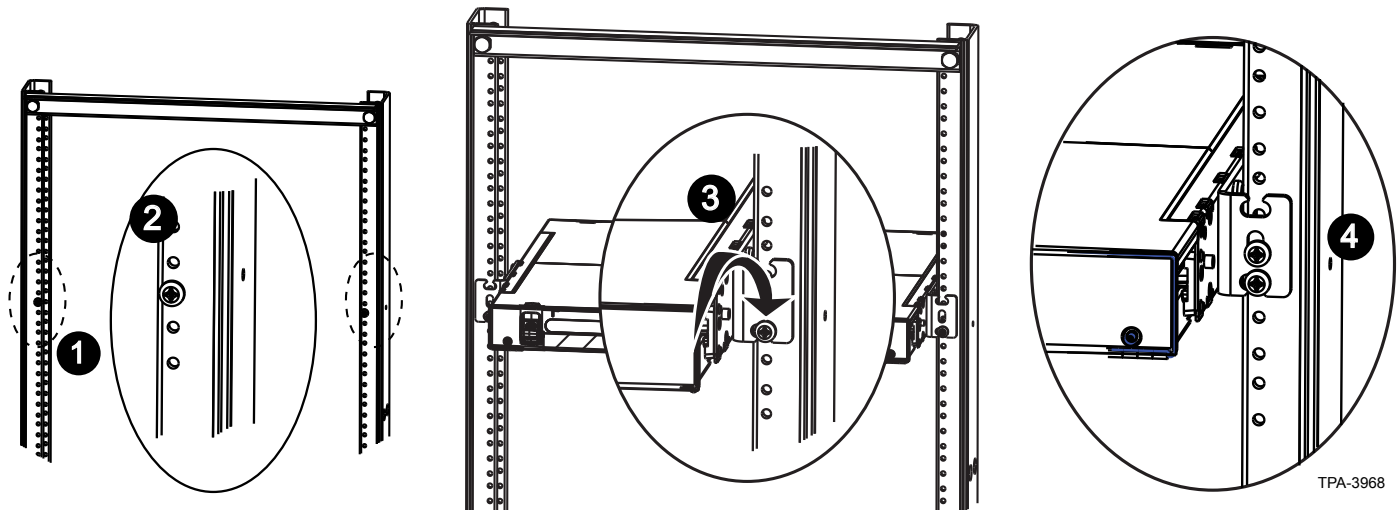


Figure 3

- Step 1:** Identify the rack location where the housing will be mounted (Figure 3).
- Step 2:** Insert the bottom screws into the rack just above the desired location for the bottom edge of the housing (#12 screws provided — one per side), leaving 1/4 to 1/2-inch of screw threads exposed.
- Step 3:** Insert the housing into the rack and place the open-ended slot on the bottom of the mounting brackets onto the installed screws. (The mounting brackets will support the weight of the housing.)
- Step 4:** Tighten the installed screws and insert one more screw per side into the center cut-out of the mounting bracket. (For CCH-02U and CCH-03U housings: insert additional screws through the top groove on the mounting brackets and tighten securely.)

### 4.1.1 Mounting with a 3-inch Projection

- Step 1:** Remove the factory-installed mounting bracket (Figure 4).
- Step 2:** Relocate the bracket toward the front of the housing. Align the screws with the mounting hole locations and reinstall the bracket.
- Step 3:** Mount the housing in the rack per the steps in Section 4.1.

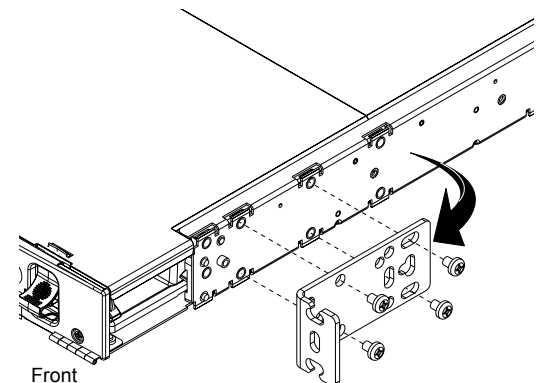


Figure 4

### 4.1.2 Flush-mounting from the Front of the Rack

- Step 1:** Remove the front door and its hinges.
- Step 2:** Remove the factory-installed mounting bracket.

- Step 3:** Relocate the bracket to the front of the housing (Figure 5). Align the screws with the mounting hole locations shown and reinstall the bracket.
- Step 4:** Pull the sliding tray out to the detent position so that jumper routing guides project in front of the rack uprights.
- Step 5:** Lock shelf into place, if desired (as shown in inset).
- Step 6:** Mount the housing in the rack per the steps in Section 4.1.

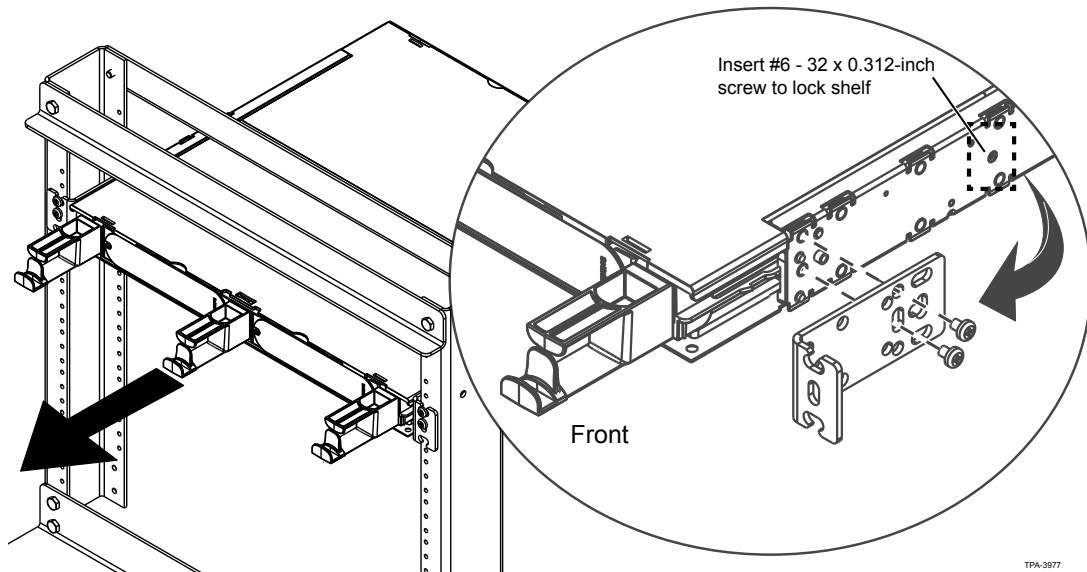


Figure 5

#### 4.2. Mounting a Fully Loaded Housing into the Rack from Behind the Rack

- Step 1:** Identify the rack location where the housing will be mounted.
- Step 2:** Insert the bottom screws into the rack just above the desired location for the bottom edge of the housing (#12 screws provided — one per side), leaving 1/4-inch of screw threads exposed (Figure 6).
- Step 3:** Remove the mounting brackets from the housing using a Phillips-head screwdriver.
- Step 4:** Pass the housing through the rack until the holes for the mounting brackets are in front of the rack-mounting rails.

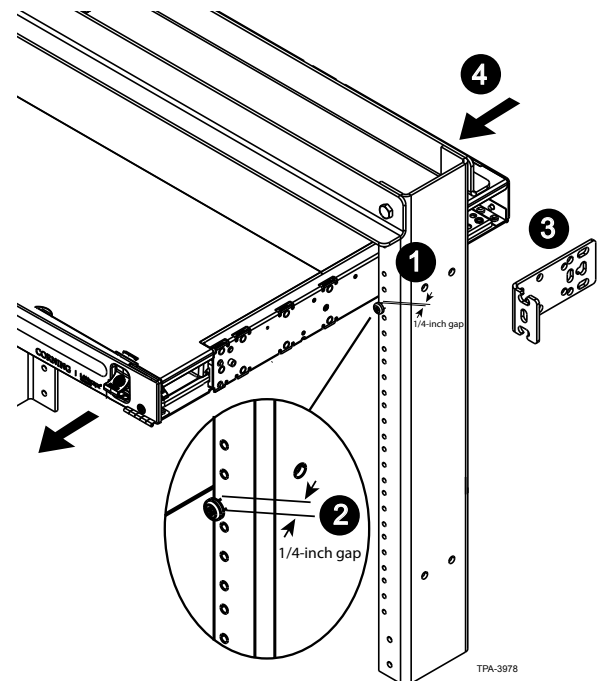


Figure 6

- Step 5:** Reattach the mounting brackets using a Phillips-head screwdriver (Figure 7).
- Step 6:** Set the open-ended slot on the bottom of the mounting brackets onto the installed screws. (The mounting brackets will support the weight of the housing.)
- Step 7:** Tighten the installed screws and insert one more screw per side into the center cut-out of the mounting bracket. (For CCH-02U and CCH-03U housings: insert additional screws through the top slot on the mounting brackets and tighten securely.)

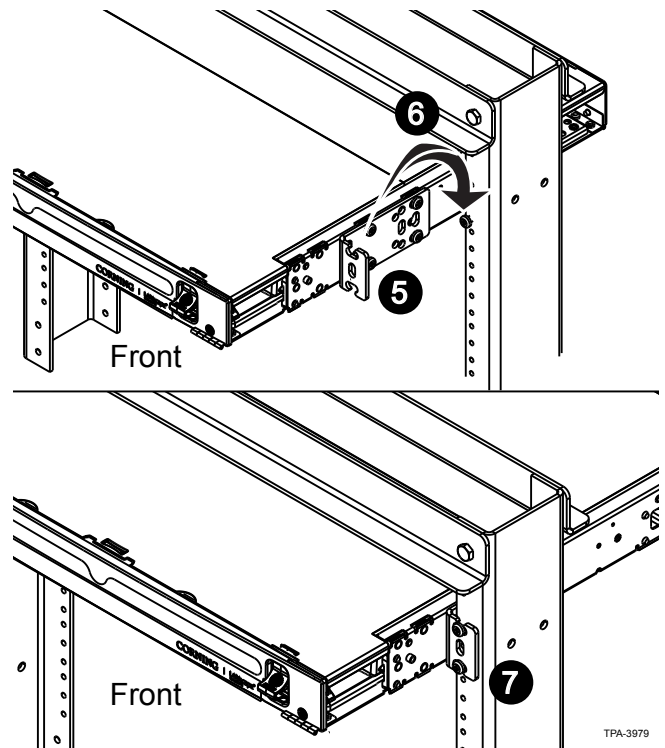


Figure 7

### 4.3. Mounting a Fully Loaded Housing into the Rack from in Front of the Rack

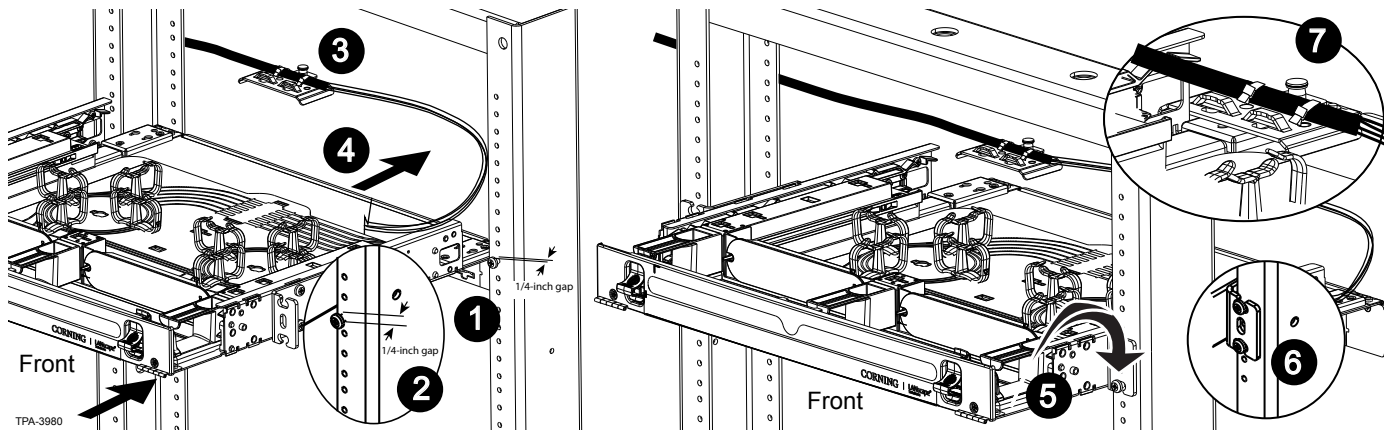


Figure 8

- Step 1:** Identify the rack location where the housing will be mounted (Figure 8).
- Step 2:** Insert the bottom screws into the rack just above the desired location for the bottom edge of the housing (#12 screws provided — one per side), leaving 1/4 to 1/2-inch of screw threads exposed.
- Step 3:** Carefully remove the external or internal strain-relief bracket, taking care to protect the cable or buffer tubes.

**NOTE:** Slide the covers off to access the internal strain-relief bracket.

- Step 4:** Pass the cable and housing through the rack from the front, taking care not to damage the cable or buffer tubes as you pass the housing through the rack.

- Step 5:** Set the open-ended slot on the bottom of the mounting brackets onto the installed screws. (The mounting brackets will support the weight of the housing.)
- Step 6:** Tighten the installed screws and insert one more screw per side into the center cut-out of the mounting bracket. (For CCH-02U and CCH-03U housings: insert additional screws through the top groove on the mounting brackets and tighten securely.)
- Step 7:** Reattach the external or internal strain-relief bracket to the housing.

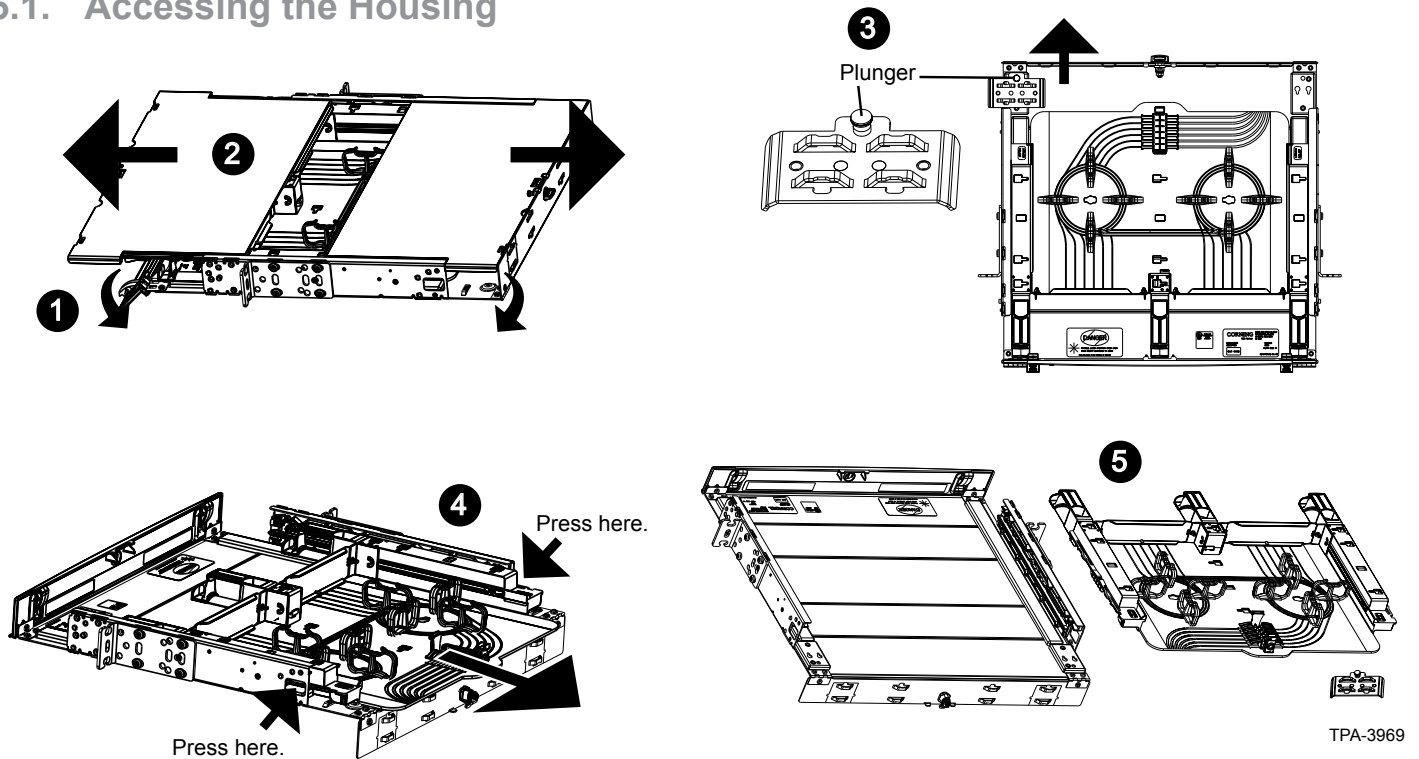
#### 4.4. Mounting an Empty Housing into a Cabinet or Enclosure (Flush-mounting)

Remove the factory-installed mounting brackets and replace them with the Recess Mount Kit (p/n CCH-RECESS-KIT-5, ordered separately). Follow the instructions provided with the kit to mount the housing into a cabinet or enclosure.

### 5. DIRECT TERMINATION WITHIN THE HOUSING

The housing is factory-prepared for direct termination of cable. If splicing or terminating inside a cassette, skip to Section 6.

#### 5.1. Accessing the Housing



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Figure 9

- Step 1:** Open the front and rear doors (Figure 9).
- Step 2:** Slide the covers apart from the center and remove.
- Step 3:** Lift the plunger on the internal strain-relief bracket and remove it.

**NOTE:** Ensure that the tray is in the forward (second) detent position when reinstalling the internal strain-relief bracket to avoid interference.

- Step 4:** Slide the tray to the rear of the housing until it stops. Through the windows on both sides of the housing, depress the tab on the flexible rail to release the tray and pull it completely out of the housing.
- Step 5:** Set the tray down on a convenient work surface, preferably behind the housing.

## 5.2. Preparing Cable for Direct Termination

**IMPORTANT:** Please refer to the cable manufacturer's recommended procedures and cable access techniques while accessing the cable. Follow all required safety procedures.

Visit Corning Cable Systems website at [www.corning.com/cablesystems](http://www.corning.com/cablesystems) for videos on accessing indoor, outdoor, and indoor/outdoor cables.

### 5.2.1 Ground Armored Cable

If the cable is armored, secure cable in the external strain-relief assembly. Install one ground kit (FDC-CABLE-GND) per armored cable. Follow instructions provided with the kit to properly ground the cable.

- Step 1:** Remove the paint from the rack with an abrasive to ensure metal-to-metal contact at the grounding location.
- Step 2:** Attach the other end of the ground wire from the cable to the rack with thread-forming screw provided. The rack must be grounded in accordance with applicable codes and standard company practices.

### 5.2.2 Strip Cable Sheath

Strip Lengths for 1U, 2U, 3U Housings

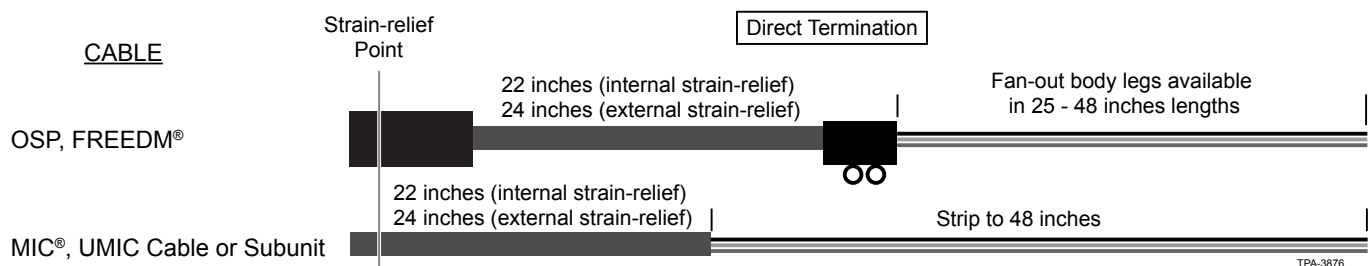


Figure 10

- **Loose-tube Cable using a 25-inch Buffer Tube Fan-out Kit:** Strip a total of 48 inches of cable jacket. Using a buffer tube access tool, strip off 26 inches of buffer tube exposing the 250 micron fiber and 22 inches of exposed buffer tube. Follow proper manufacturer's recommended procedures while installing the buffer tube fan-out kit.
- **Loose-tube Cable using a 36-inch Buffer Tube Fan-out Kit:** Strip a total of 59 inches of cable jacket. Using a buffer tube access tool, strip off 37 inches of buffer tube exposing the 250 micron fiber and 22 inches of exposed buffer tube. Follow proper manufacturer's recommended procedures while installing the buffer tube fan-out kit.
- **Loose-tube Cable using a 47-inch Buffer Tube Fan-out Kit:** Strip a total of 70 inches of cable jacket. Using a buffer tube access tool, strip off 48 inches of buffer tube exposing the 250 micron fiber and 22 inches of exposed buffer tube. Follow proper manufacturer's recommended procedures while installing the buffer tube fan-out kit.
- **Tight Buffered Cable:** Place a mark on the cable 70 inches from the end of the cable. Strip off 48 inches of cable jacket, exposing the 900-micron fibers.
- **Unitized Tight Buffered Cable:** Strip off a total of 70 inches of cable jacket. Mark, then remove, 48 inches of sub-unit jacket, exposing the 900-micron fibers.



## 5.3. Performing Sheath Retention

It is only necessary to use one of the following methods for sheath retention.

- External Strain-relief - Section 5.3.1
- Internal Strain-relief - Section 5.3.2
- On Rear Door - Section 5.3.3
- Through Rear Door - Section 5.3.4

### 5.3.1 To External Strain-relief Assembly

a. The external strain-relief assembly is factory-configured for the following cable entry locations:

- **Cable enters from the top right:** Install the external strain-relief mount so that the arm extends away from and to the LEFT of the “window” located on the mount.
- **Cable enters from the bottom left:** Install the external strain-relief mount so that the arm extends away from and to the RIGHT of the “window” located on the mount.

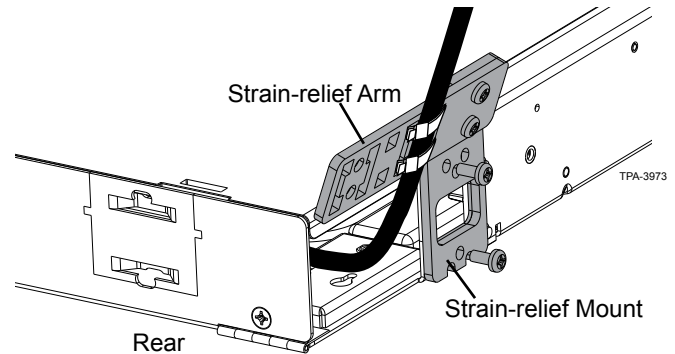


Figure 11

**Step 1:** Align the window of the external strain-relief assembly with the window on the housing (Figure 11). Insert the two provided screws and tighten completely.

**Step 2:** Strain-relieve to the external strain-relief assembly by using two cable ties to secure the cable to the assembly. Ensure that the cable ties are seated correctly in the provided slots.

b. It is necessary to reconfigure the strain-relief assembly for the following cable entry locations:

- **Cable enters from the bottom right:** Screw the external strain-relief arm onto the external strain-relief mount so that the arm extends away from and to the RIGHT of the “window” located on the mount.
- **Cable enters from the top left:** Screw the external strain-relief arm onto the external strain-relief mount so that the arm extends away from and to the LEFT of the “window” located on the mount.

**Step 1:** Unscrew the screws holding the arm to the mount (Figure 12). Flip the bracket and reattach the strain-relief arm on the other side of the strain-relief mount.

**Step 2:** Attach the arm to the mount with the same screws just removed.

**Step 3:** Align the window of the external strain-relief assembly with the window on the housing. Insert the two provided screws and tighten completely.

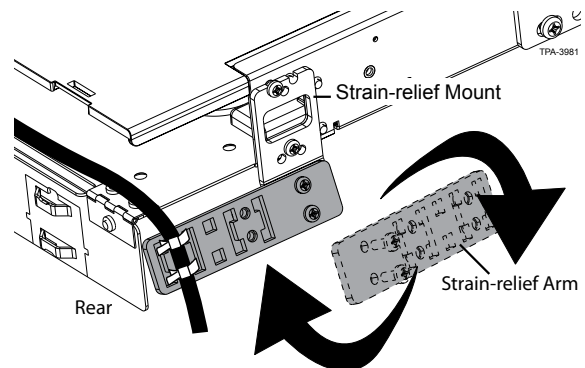


Figure 12



**Step 4:** Strain-relieve cable to the strain-relief arm by using two cable ties to secure the cable to the assembly. Ensure that the cable ties are seated correctly in the provided slots.

**NOTE:** Alternatively, a Universal Cable Clamp (UCC) may be attached to the strain-relief arm to hold the cable as shown in Figure 13. Follow the instructions provided with the UCC.

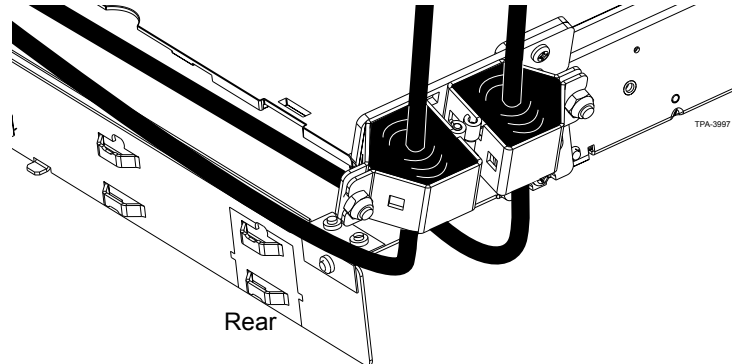


Figure 13

### 5.3.2 To Internal Strain-relief Bracket

- **Smaller diameter cables:** Use two cable ties to secure the cable to the bridges on the internal strain-relief bracket.
- **Larger diameter cables:** Use cables ties to secure the cable to all four bridges on internal strain-relief bracket.
- **Multiple cables:** Bundle cables together with cable ties. Then cable tie the bundle to the bridges on the strain-relief bracket.
- **Cable with Central Member:** Use one cable tie to secure the cable to one of the bridges on the internal strain-relief bracket. To strain-relieve the central member, place the flat washer and U-shaped washer onto the screw. Loosely insert the screw through the strain-relief bracket. Wrap aramid yarn around the screw between the U-shaped washer and bracket. Place central member between the U-shaped washer and the flat washer. Tighten the screw into the bracket.

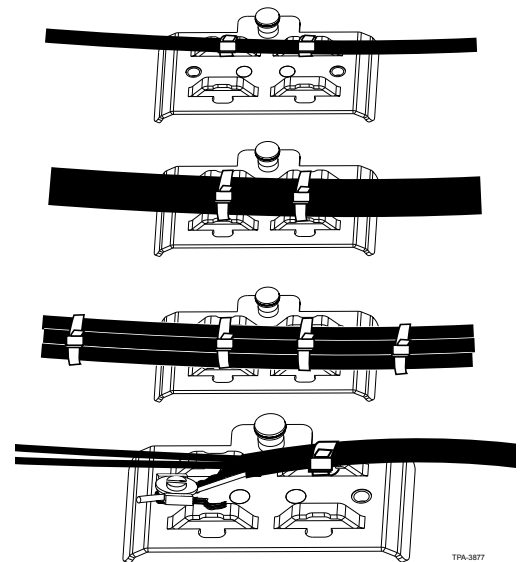


Figure 14

### 5.3.3 On the Rear Door

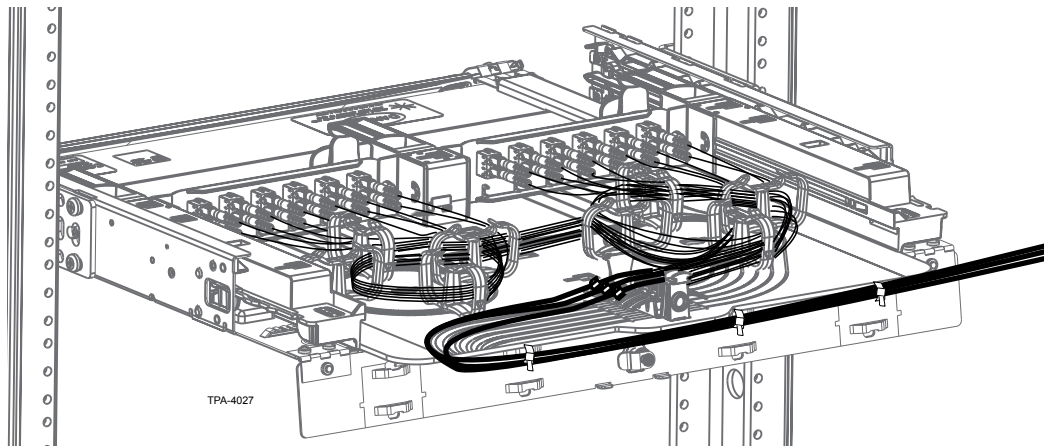


Figure 15

Cable may be strain-relieved to the lances on the inside of the rear door after reinstalling the shelf (Figure 15). Secure the cables at several locations on rear door with cable ties.

### 5.3.4 Through the Rear Door

If cable enters from directly behind the housing, it is possible to strain-relieve through the rear door.

- Step 1:** Open the rear door. Firmly grasp door to prevent bending it and, with a pair of pliers, remove the knockout where the cable will enter the housing (Figure 16).
- Step 2:** Remove the two routing clips in the area indicated by the dashed circles in the illustration.
- Step 3:** Strain-relieve the cable with cable ties through the openings in the side wall of sliding shelf as shown.

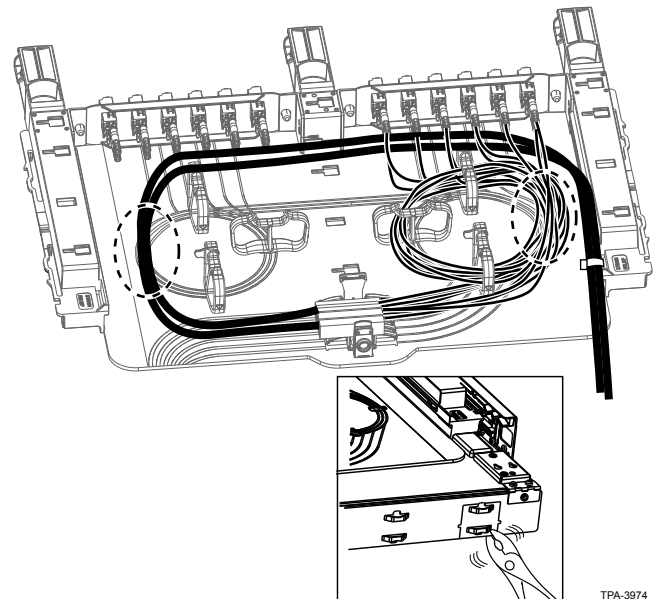


Figure 16

## 5.4. Installing Adapter Panels

Replace blank panels (Figure 17) with adapter panels applicable for the connectors being used.

## 5.5. Terminating Fiber

Terminate the fiber in accordance with company policies and manufacturer's recommendations.

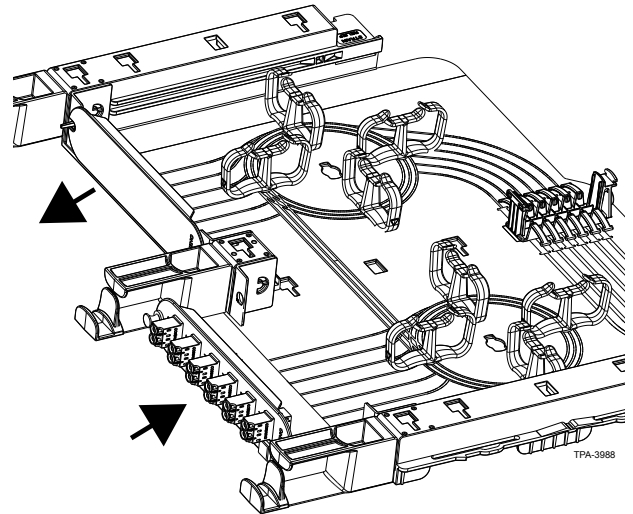


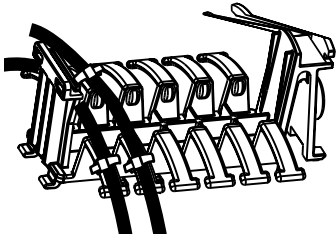
Figure 17

## 5.6. Routing Fiber

The procedure for routing all cable types is the same, unless cable enters the housing through the rear door. If cable enters from the rear, route one loop of cable around the perimeter of the housing to the transitional strain-relief holder as shown in Section 5.3.4. Otherwise, route the 900-micron fiber (buffered or furcated) in accordance with the instructional etchings on the sliding tray.

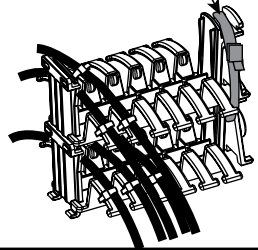
### 5.6.1 Secure Cables to Internal Transitional Strain-relief Holder

Transitional Holder  
using cable ties



In housings taller than 1U, transitional holders may be stacked to accommodate more fan-out bodies or cables. Secure holders together with a cable tie.

Cable Tie



Transitional Holder  
using Buffer Tube Fan-out Bodies

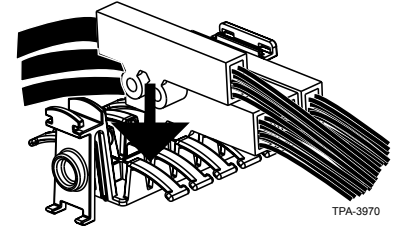


Figure 18

If cable enters the housing through the rear door, make one loop with the cable around the perimeter of the housing before securing the cable to the holder.

### Tight-buffered or Unitized Tight-buffered Cables

Strain-relieve the cable jacket or the sub-unit jacket to the transitional strain-relief holder with cable ties on each side of the holder as seen in Figure 18. The transitional strain-relief holder can hold up to six different cables or sub-units.

- If the cable enters the housing from the right side (as seen from the rear of the housing), route the cable so that the jacketed cable is on the left and the 900-micron fibers exit on the right side of the transitional holder.
- If the cable enters the housing from the left side (as seen from the rear of the housing), route the cable so that the jacketed cable is on the right and the 900-micron fibers exit on the left side of the transitional holder.

## Loose-Tube Cable

- Strain-relieve the buffer tube by inserting the buffer tube fan-out body into the transitional strain-relief holder as seen above until it snaps into place.
- If the cable enters the housing from the right side (as seen from the rear of the housing), route the cable so that the jacketed cable is on the left and the 900-micron fibers exit on the right side of the transitional holder.
- If the cable enters the housing from the left side (as seen from the rear of the housing), route the cable so that the jacketed cable is on the right and the 900-micron fibers exit on the left side of the transitional holder.

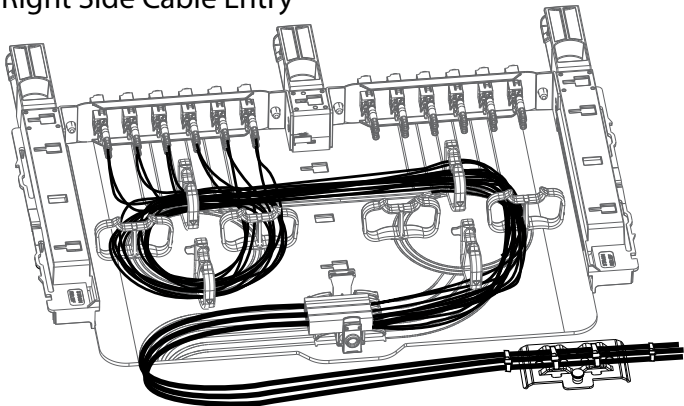
### 5.6.2 Route 900-micron Fiber through Slack Management Clips

Capture 900-micron fiber in the slack management clips as shown and described below.

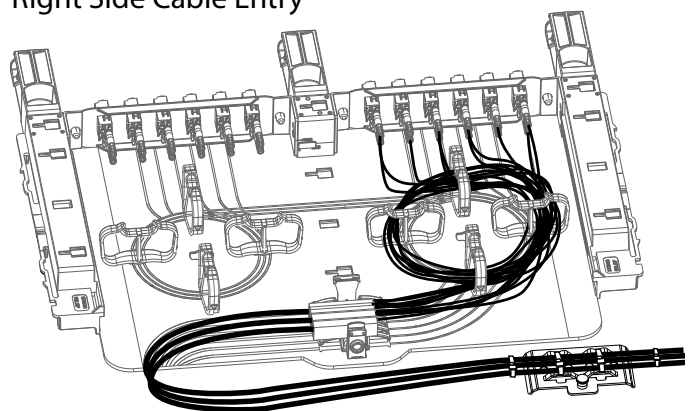
**Adapter panel on opposite side from cable entry:** Route the 900-micron fiber inside the slack management clips for half a rotation. To ensure appropriate fiber bend radius, run the fiber across the tray and make a full rotation or more inside the slack management clips on the other side of the tray. Capture all fiber slack inside the clips as shown in Figure 19.

**Adapter panel on same side as cable entry:** Route the 900-micron fiber in a full rotation or more around the slack management clips, securing all fiber slack inside the clips.

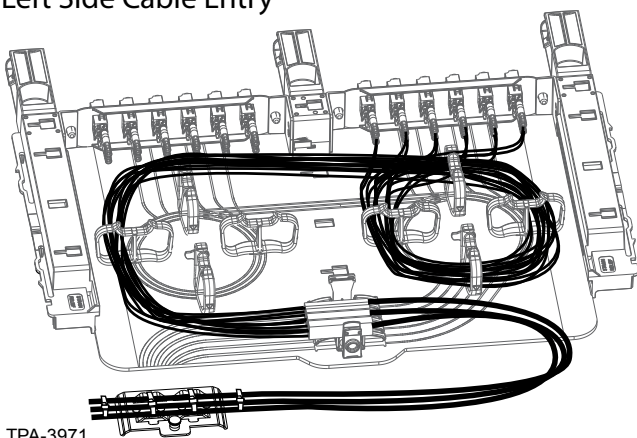
Adapter Panel on Opposite Side from  
Right Side Cable Entry



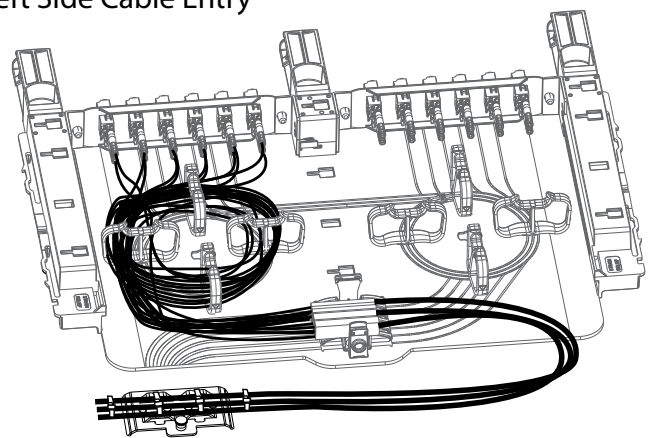
Adapter Panel on Same Side as  
Right Side Cable Entry



Adapter Panel on Opposite Side from  
Left Side Cable Entry



Adapter Panel on Same Side as  
Left Side Cable Entry



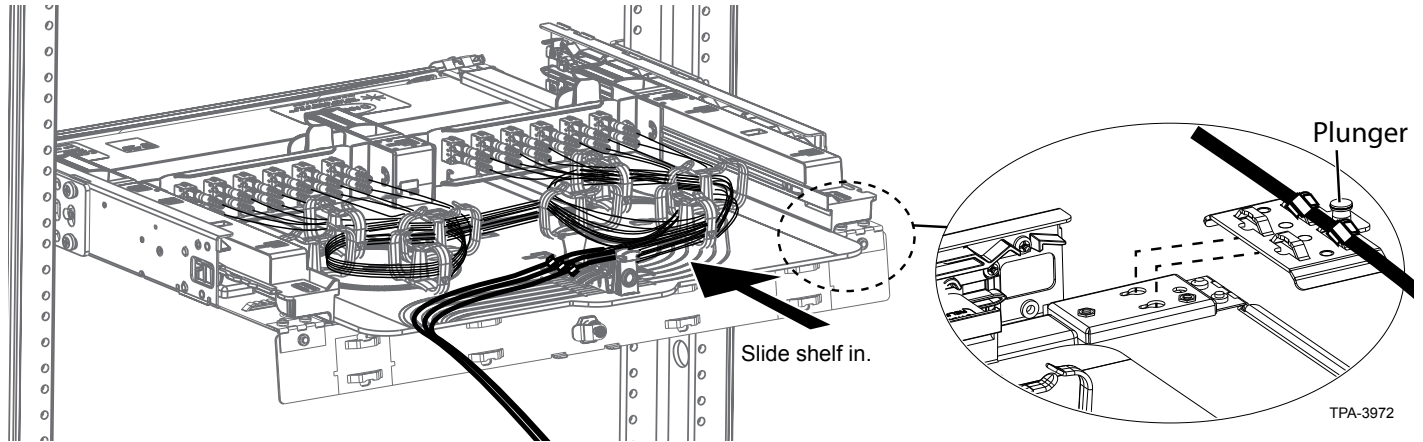
TPA-3971

Figure 19

## 5.7. Mating Connectors in Adapters

- Step 1:** Remove dust caps from connectors and adapters.
- Step 2:** Clean connectors and adapters with the appropriate tools and materials for the connector type according to manufacturer's directions and standard company practices.
- Step 3:** Mate connectors into adapters, usually beginning from right to left as seen from the rear.

## 5.8. Installing Completed Sliding Tray into the Housing



TPA-3972

Figure 20

- Step 1:** Carefully pick up both the sliding tray and internal strain-relief bracket, if used. Insert the sliding tray into the housing as shown in Figure 20 until it reaches the second detent position. Jumper routing guides should be about  $\frac{1}{4}$ -inch behind the front door.
- Step 2:** If using the internal strain-relief bracket, slide keyway studs on the bracket into the slots at the back of the housing. Slide the bracket toward the front of the housing until the plunger clicks into place.

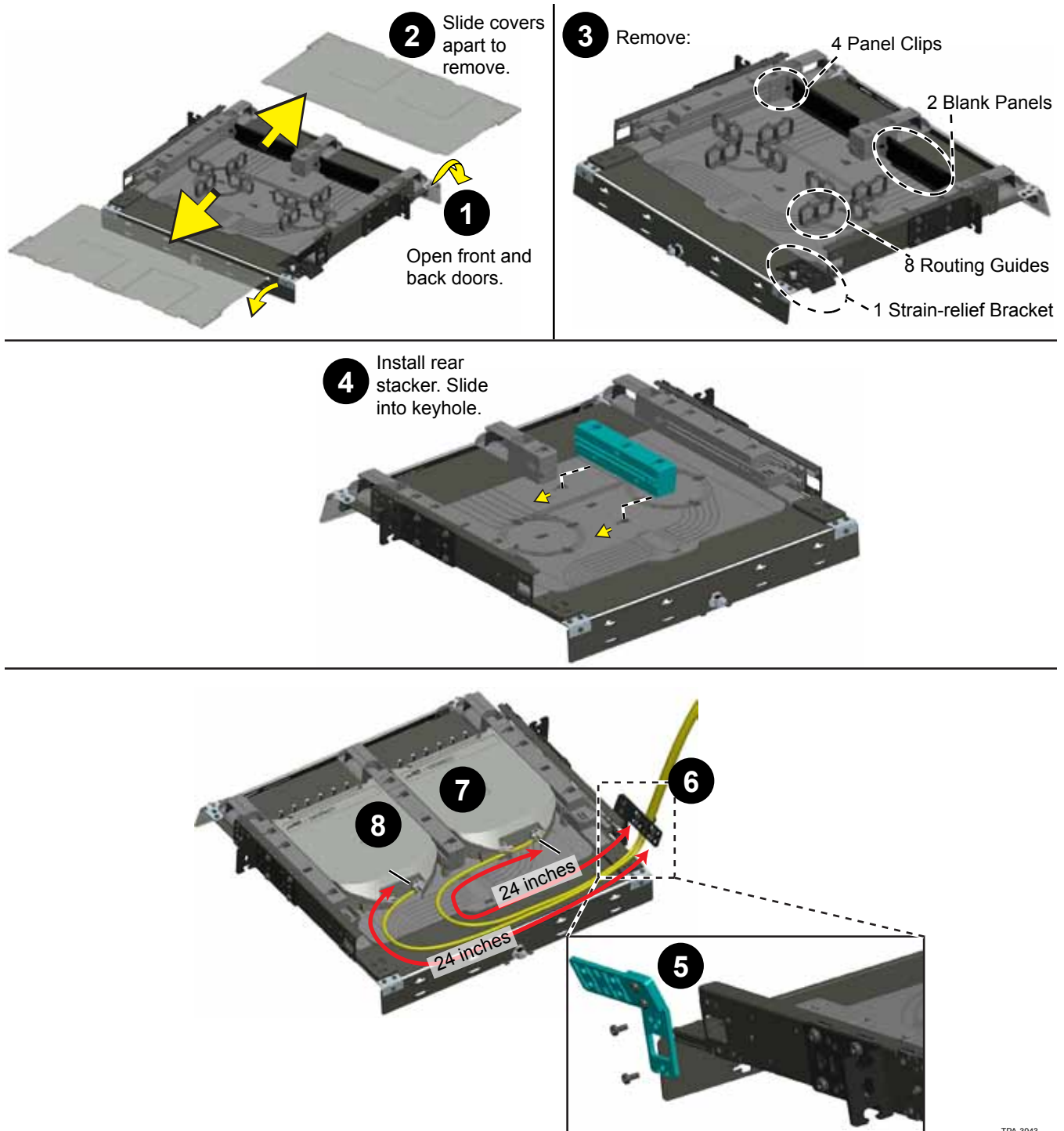


## 6. INSTALLING CASSETTES

### 6.1. Installing Two Cassettes

Refer to the Corning Cable Systems Standard Recommended Procedure 003-895 for complete instructions on preparing a splice cassette using ribbon fiber or loose tube cable.

It is not necessary to remove the sliding tray to install cassettes into the housing.



TPA-3943

Figure 21

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**Step 1:** As seen in Figure 21, open the front and rear doors.

**Step 2:** Slide the covers apart to remove them from the housing.

**Step 3:** Remove the following parts from the housing

- a. Remove all the slack management clips by rotating them 180-degrees either direction, then lifting them out of the sliding tray.
- b. Remove the transitional strain-relief holder by pressing in on the back tab and lifting the holder up 90-degrees from the sliding tray.
- c. Remove all panels, then remove panel clips by pulling the clip away from the panel clip holders and sliding the clips towards the front of the housing.

**Step 4:** Insert the rear stacker into the housing by sliding the clips located on the bottom of the stacker into the slots located in the sliding tray.

**NOTE:** When installing the stackers into a CCH-02U or CCH-03U housing, the stackers may be mounted on top of one another using the directions in Step 6.

**Step 5:** Assemble external strain-relief assembly depending upon the direction from which cable enters the housing. Refer to Section 5.3.1 for details.

**NOTE:** Alternatively, a Universal Cable Clamp may be attached to the strain-relief arm to hold the cable.

**Step 6:** Install the first cassette on the right (as seen from the rear of the housing), either from the front or rear of the housing between the stacker and side wall of shelf until it snaps into place. To remove the cassette, press in on the two tabs and slide the cassette towards either the front or the rear of the housing.

**NOTE:** Mate the recessed channel along the side of the cassette with the corresponding rails of the shelf and stacker as you insert the cassette.

**Step 7:** Install the second cassette on the left. Ensure the cables are not in a location to be pinched when the door is closed.



## 6.2. Installing One Cassette and One Adapter Panel

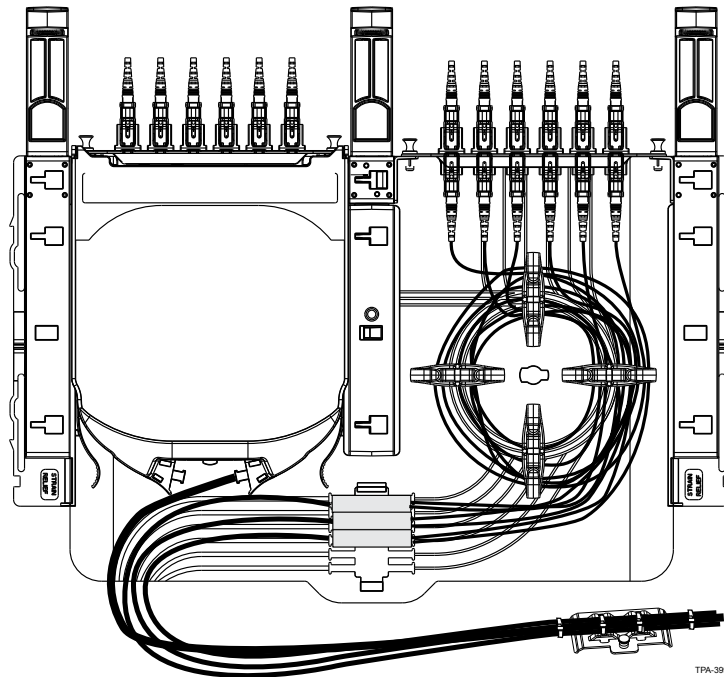


Figure 22

**Step 1:** Follow Steps 1 through 3b in Section 6.1.

**Step 2:** Remove both blank panels, then remove panel clips on the left side by pulling the clip away from the panel clip holders and sliding the clips towards the front of the housing.

**Step 3:** Insert the rear stacker into the housing by sliding the clips located on the bottom of the stacker into the slots located in the sliding tray (Figure 21).

**NOTE:** When installing the stackers into a CCH-02U or CCH-03U housing, the stackers may be mounted on top of one another using the directions in Step 6.

**Step 4:** Install an adapter panel on the right side of the shelf (Figure 22) (as seen from the rear of the housing).

**Step 5:** Assemble external strain-relief assembly depending upon the direction from which cable enters the housing. Refer to Section 5.3.1 for details.

**NOTE:** Alternatively, a Universal Cable Clamp may be attached to the strain-relief arm to hold the cable (Figure 13).

**Step 6:** Install the cassette on the left (Figure 22), either from the front or rear of the housing between the stacker and side wall of shelf until it snaps into place. To remove the cassette, press in on the two tabs and slide the cassette towards either the front or the rear of the housing.

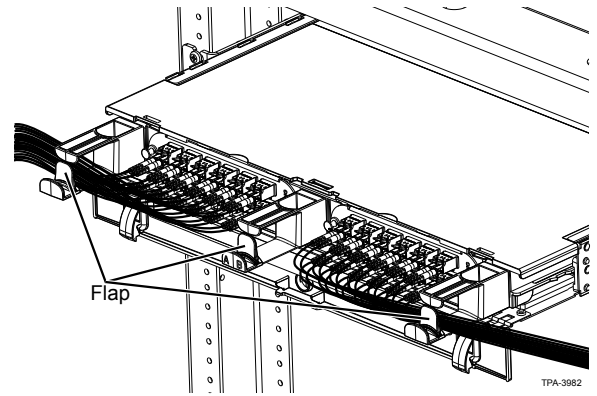
**NOTE:** Mate the recessed channel along the side of the cassette with the corresponding rails of the shelf and stacker as you insert the cassette.

**Step 7:** Route cables as shown.

**NOTE:** In CCH-02U (CCH-03U), install up to 2 (3) cassettes on left side of housing and up to 2 (3) panels on the right side.

## 7. ROUTING JUMPERS (PATCH CORDS)

- Step 1:** Open front door to access adapter panels.
- Step 2:** Remove dust caps from the connectors and adapters into which they will be mated. Clean the connector end faces and adapters per standard company practices and insert the connectors into the adapters.
- Step 3:** Install jumpers as specified by company planning diagrams.
- Step 4:** Route the jumpers through the clips at the front of the housing. The flap on front of the guide allows jumpers to be inserted or removed as a bundle or individually.



## 8. DOCUMENTATION

Accurate recordkeeping is imperative for an organized installation.

- Record fiber identification information directly on the clear label cards (Figure 23) or on the provided identification labels (or Avery label #5162 [1 1/3 x 4-inch]) which can be adhered to the label cards. The label card can be removed by bowing the card and pulling it out the front of the housing.
- A white space inside the front door provides a location for a panel identification label to be placed inside the door. The textured cover prevents unauthorized viewing of the panel identification from outside the housing.
- Place a housing identification label (or Avery label #5162 [1 1/3 x 4-inch]) on the outside of the front door. A crop mark near the left latch allows alignment of housing identification labels for aesthetic purposes.

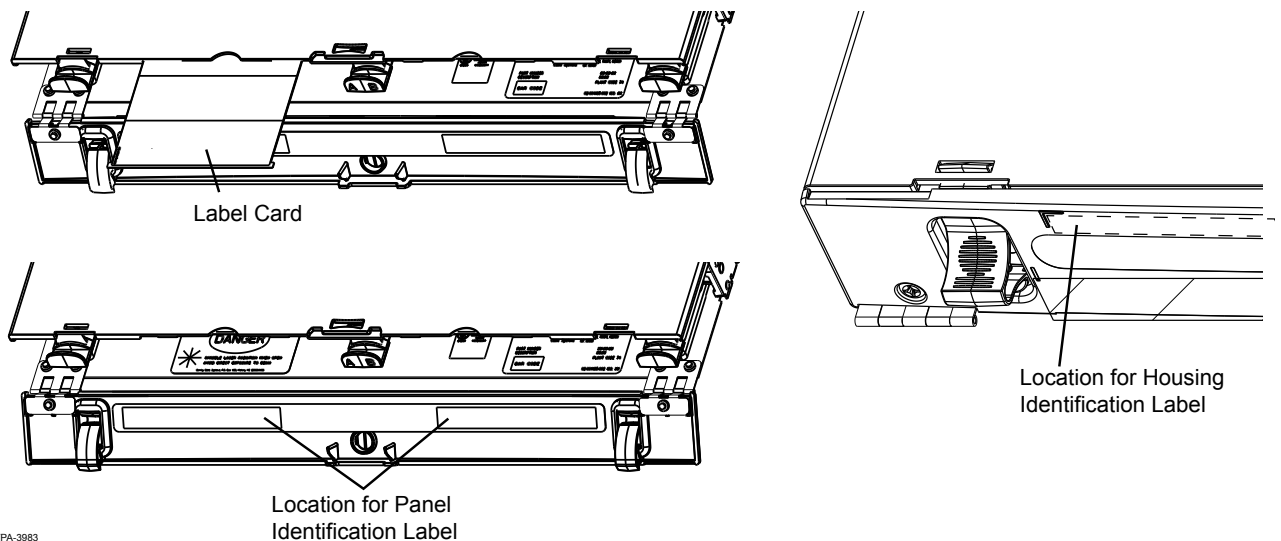


Figure 23

## 9. SECURITY

### 9.1. Covers

The covers can be locked in place to prevent unauthorized access. Insert screws from the hardware kit into both sides of the housing at the locations depicted in Figure 24 to prevent the covers from being removed.

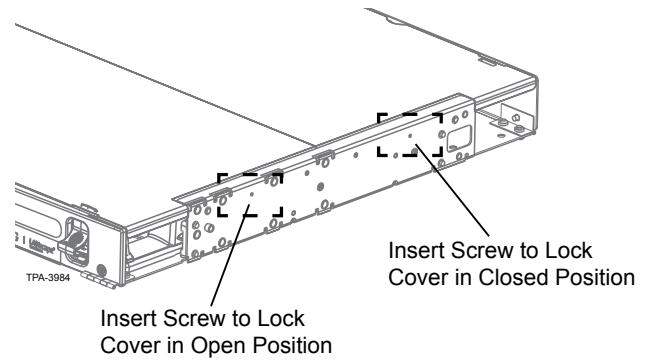


Figure 24

### 9.2. Sliding Shelf

Insert screws from the hardware kit into both sides of the housing at the location depicted in Figure 25 to prevent the shelf from sliding in or out of the housing.

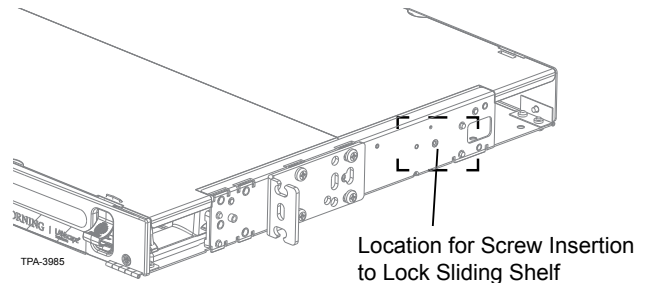


Figure 25

### 9.3. Doors

An optional lock kit (pn CCHA-LOCK-KIT) may be installed in the front and rear doors to prevent unauthorized access. Follow the instructions provided with the kit.