

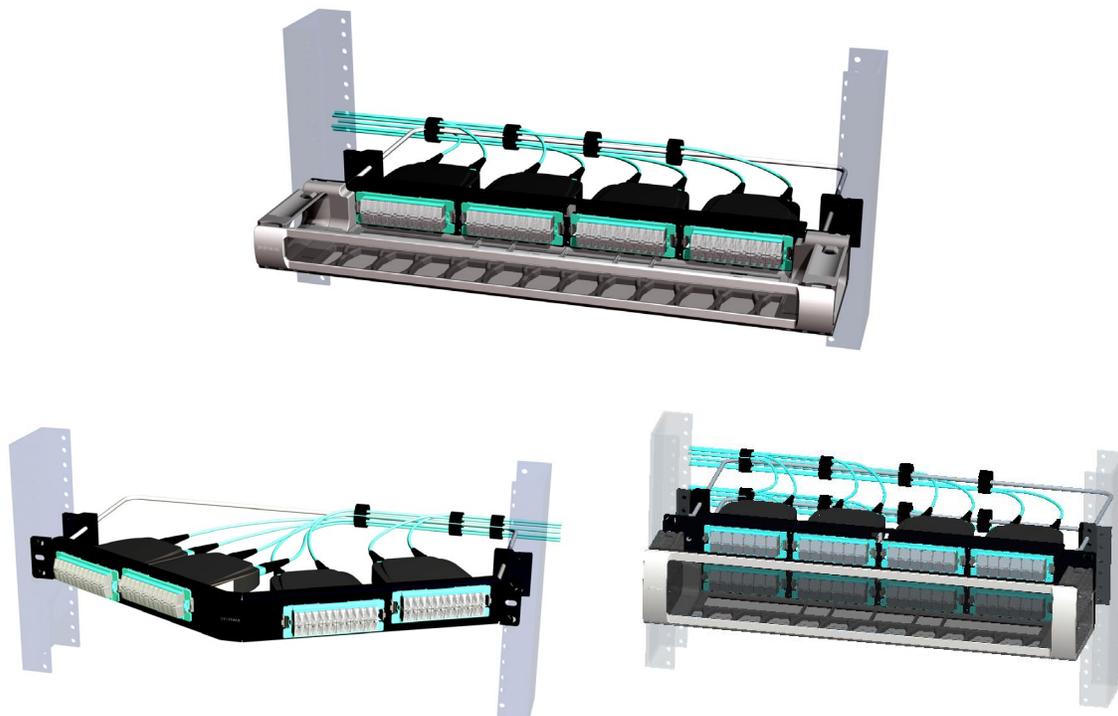
## 360 MP-1U, MP-1U-Angled and MP-2U Termination Panels with Fiber Management Bar Instructions

### General

The CommScope 360 MP-type panel is available as a 1U flat panel, 1U angled panel, and a 2U flat panel. The panels are 19" wide x 1.75" high (1RU) and 19" wide x 3.5" high (2RU) fiber optic termination panels designed to accept **360 InstaPATCH Plus** modules and a variety of available MPO adapter and blank panels. The 360MP-1U and 360MP-2U feature a front fiber jumper management trough. The 360MP-1U-ANGLED panel is an angular panel configuration matching that of CommScope copper panel offerings. Both flat panels feature a fiber management bar to restrain and route the fiber cables exiting the rear of the modules. These panels are intended for indoor use or can be used outdoors in a suitable protective enclosure.

Ordering information is listed below:

Material ID	Part No.	Description
760193755	360MP-1U	1U flat panel
760113001	360MP-1U-ANGLED	1U angled panel
760193920	360MP-2U-PANEL	2U flat panel



360 MP-1U Flat Panel (Top), MP-1U Angled Panel (Left), and MP-2U Flat Panel (Right)

## How to Contact Us

- To find out more about **CommScope**® products, visit us on the web at <http://www.commscope.com>
- For technical assistance, use our online interface to filter by problem and location: <http://www.commscope.com/SupportCenter>
- To report any missing/damaged parts: within the United States, contact **CommScope** Customer Claims at 1-866-539-2795 or email to [claims@commscope.com](mailto:claims@commscope.com); outside the United States, contact your local account representative or **PartnerPRO** Network Partner.

## Tools Required

- Philips screwdriver
- Flat blade screwdriver

## Optional Tools

- 760053199 Fiber optic connector cleaning and inspection kit
- 760053207 Fiber optic connector cleaning and inspection consumables

## Parts List

Verify parts against the parts list below:

Quantity			Description
360MP-1U	360MP-2U	36MP-1U ANGLED	
1	2	—	1U flat panel
—	—	1	1U angled panel
1	1	—	Trough assembly (includes door assembly)
1	2	1	Fiber management bar with brackets
1	1	—	Flip label holder
3	3	—	Label hangers
4	8	4	Blanking face plate
1	1	1	Retainer kit
4	8	4	Fiber routing clips
8	12	8	#12-24 x 1/2" screws (for 19" and 23" rack/cabinet mounting)
8	12	8	M6 x 12 screws (for ETSI rack/cabinet mounting)
1	1	1	Instruction sheet

## Related Components for 360MP-1U and 360MP-2U Panels

Ordering information for available accessories is listed below.

Material ID	Product No.	Description
760032102	MODG2-BLANK	G2 modular blank panel bezel (package of 4)
760032110	MODG2-MGS	G2 modular MGS bezel (package of 4)
760039875	G2-SRF	Liquid-tight cable fitting kit for small-diameter cables
760039883	G2-23BRKT	Frame mounting bracket kit for 23" frames and ETSI frames
760107482	DP360-BLANK	<b>360 InstaPATCH</b> blank panel (package of 4)
760107490	DP360-2MPO	<b>360 InstaPATCH</b> 2 MPO adapter panel
760107508	DP360-4MPO	<b>360 InstaPATCH</b> 4 MPO adapter panel
760107516	DP360-6MPO	<b>360 InstaPATCH</b> 6 MPO adapter panel
760107524	DP360-8MPO	<b>360 InstaPATCH</b> 8 MPO adapter panel
760105676	360 G2-1U-FLK	<b>360</b> G2 1U trough flip label kit (for 360MP-1U or 360MP-2U)
760105684	360 G2-2U-FLK	<b>360</b> G2 2U trough flip label kit (for 360MP-2U only)
760058677	RMB-6-1/2	<b>InstaPATCH</b> Plus attachment bracket, rack mounted, 6 1/2" fittings
760058685	RMB-6-3/8	<b>InstaPATCH</b> Plus attachment bracket, rack mounted, 6 3/8" fittings

Contact your CommScope sales representative for more information on a wide variety of modules, panels, trunk cables and accessories that are compatible with these panels.

### Precautions

- **360 InstaPATCH Plus** modules contain fiber optic cable and passive optical components. When removed from protective packing, they should be handled carefully and installed in appropriate racks for mechanical support and protection.
- **360 InstaPATCH Plus** modules require virtually no maintenance to maintain their performance. They contain no user-serviceable components, and any damage to the anti-tamper label or removal of top cover or front adapter mounting panel will void the warranty.
- Fiber optic trunk cable and jumper performance is sensitive to bending, pulling, and crushing. Minimum bend radius must be maintained during installation per the manufacturer's specification. Appropriate pulling grips must be used during installation, and pulling forces shall not exceed manufacturer's recommendations. Use caution to avoid kinking trunk cables.
- Care should be taken not to compromise the stability of the rack by installation of this equipment.
- To be installed in restricted access areas only.

### CAUTIONS

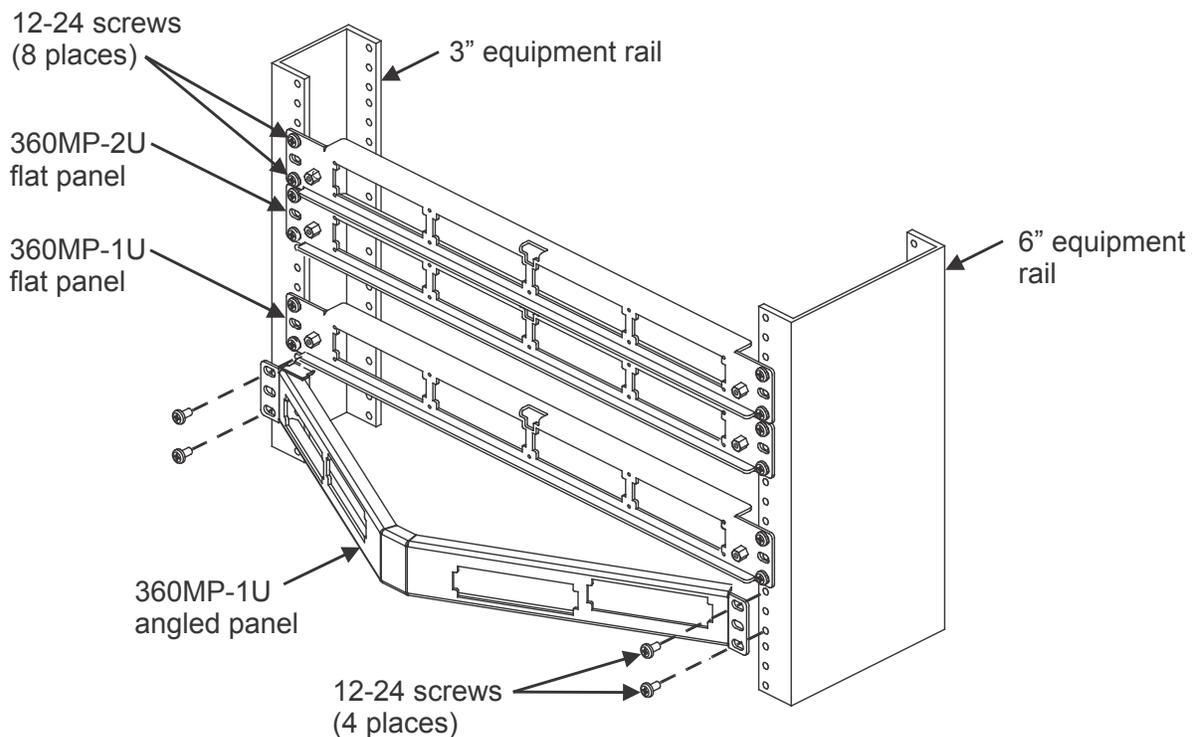
- Isopropyl Alcohol is flammable, and can cause eye irritation on contact. If eye contact occurs, flush with water for at least 15 minutes. In case of ingestion, consult a physician. Use only in well ventilated areas.
- Disconnected optical components may emit invisible optical radiation that can damage your eyes. Never look directly into an optical component that may have a laser coupled to it. Serious and permanent retinal damage is possible. If accidental exposure to laser radiation is suspected, consult a physician for an eye examination.

- Wearing safety glasses during installation of this panel is recommended. Although standard safety glasses provide no protection from potential optical radiation, they offer protection from accidental airborne hardware and cleaning solvents.

## Connector Cleaning

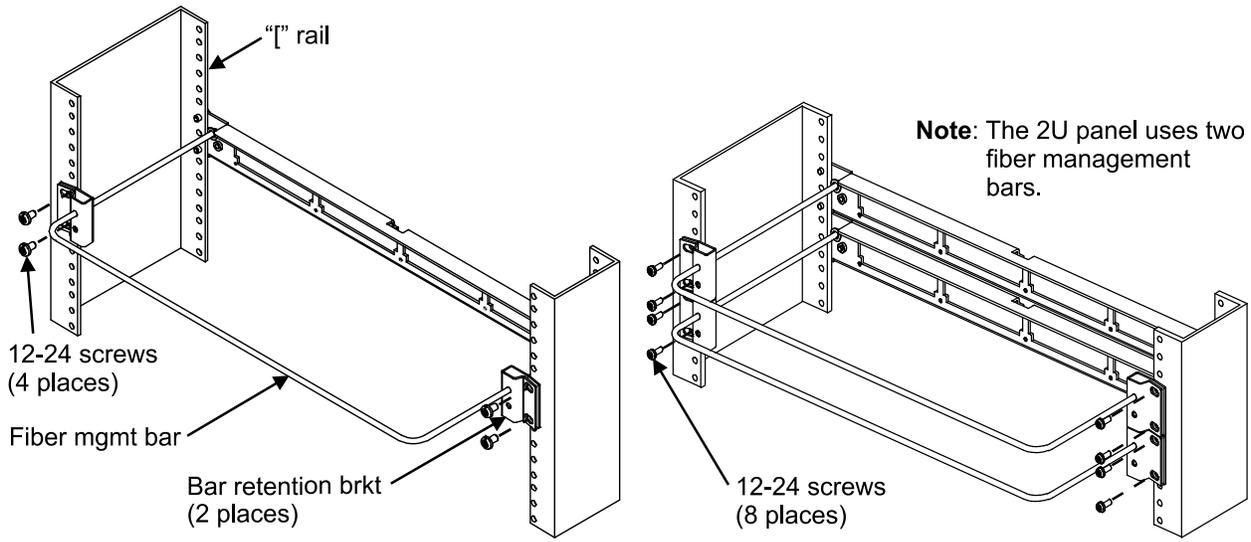
- **360 InstaPATCH Plus** modules are pre-terminated, with either protective dust caps (SC) or integral hinged shutters (LC) installed on all adapters. Connectors internal to the adapters are clean when purchased.
- Clean trunk cable and jumper connectors per manufacturer's recommendations prior to connection to the panel.
- If trunk cables or jumpers are removed, replace provided dust caps (SC) on the adapters to protect the internal connectors.

## Step 1 – Mount Panel to Equipment Rails



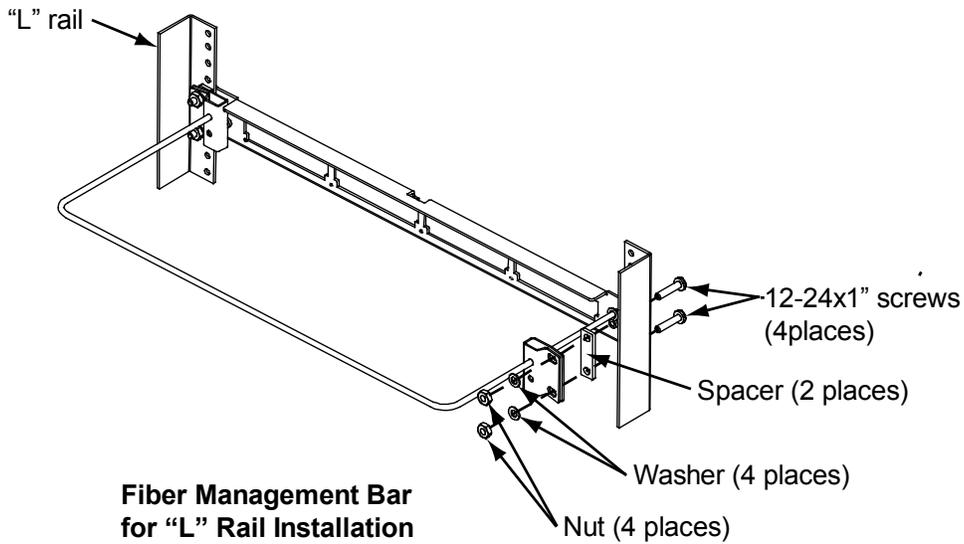
1. Determine the rack/cabinet size and desired mounting location.
  - For 19-inch rack (as shown) – Mount panel to equipment rails using four #12-24 x 3/8" screws (provided).
  - For 23-inch rack – Use the 600-23BRKT accessory kit (available separately) and install two conversion brackets to the panel mounting flanges, using the four #10-32 x 3/8" conversion screws included in the accessory kit. One conversion bracket and two screws per side. Mount the panel to the equipment rails using four #12-24 x 3/8" screws (provided with panel).
  - For ETSI rack – Use the 600-23BRKT accessory kit (available separately) and install one conversion bracket to either of the panel mounting flanges, using two of the four #10-32 x 3/8" conversion screws included in the accessory kit. The panel will not be centered when mounted in the rack. Mount the panel to the rack using four M6 x 12 mm screws (provided with panel).

## Step 2 – Mount Fiber Management Bar to Equipment Rails



Fiber Management Bar for 1U Panel

Fiber Management Bar for 2U Panel



Fiber Management Bar for "L" Rail Installation

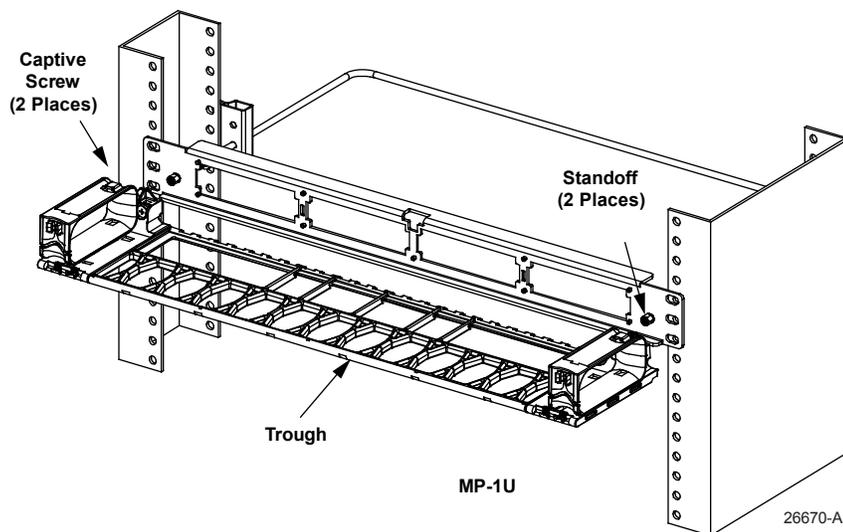
1. After panel is installed onto equipment rails, locate bar retention bracket on opposite flange of equipment rail and loosely secure in place with two 12-24 screws.

**Note:** Align bracket(s) so it is located on the same "U" increment as the panel. The 2U panel uses two fiber management bars.

2. Repeat at opposite side.
3. Slide bar into bracket until it contacts the back side of the panel.
4. Fully tighten four 12-24 screws to secure bar in position.

**Note:** To use the fiber management system in a cabinet or rack which uses a single sided rail "L" shaped as opposed to " [" shaped a hardware kit (760110098) is provided. Assembly is shown in the bottom figure and applies to all three panels.

### Step 3 – Install Front Fiber Management Trough (MP-1U and MP-2U Flat Panels Only)

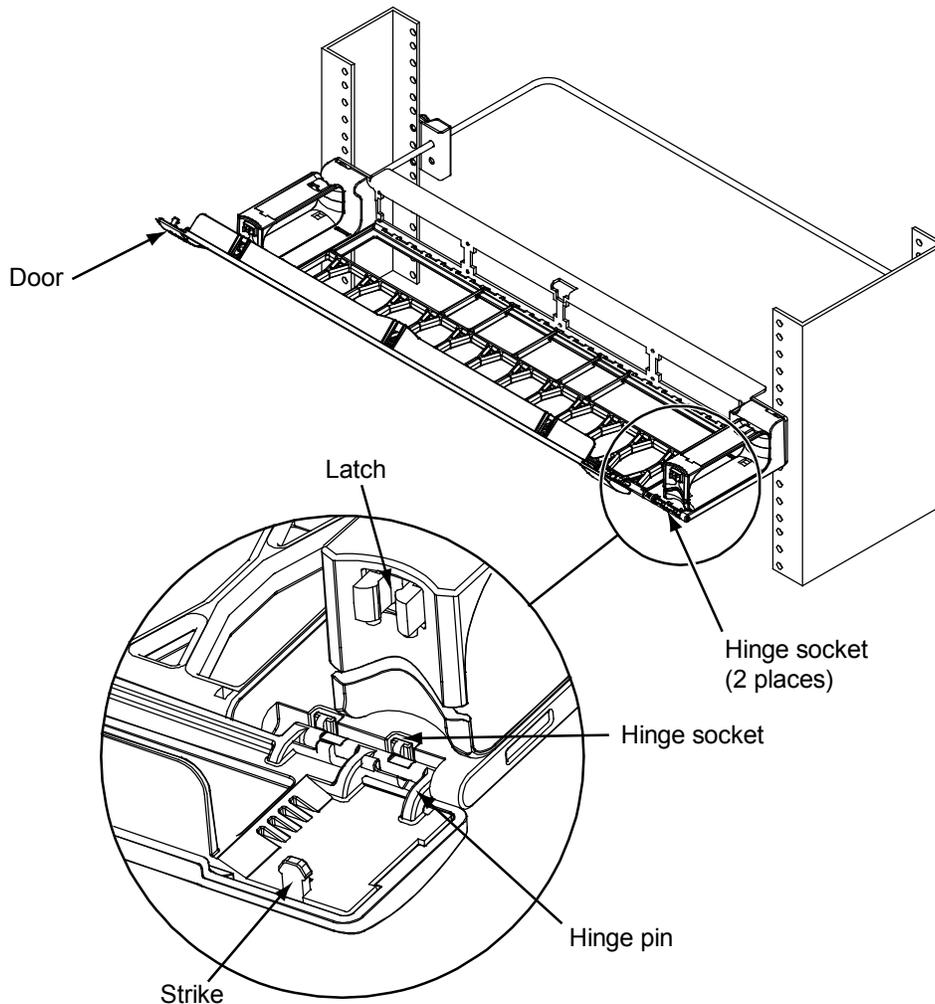


1. Position trough on shelf so that indentions behind captive screws rest on the standoffs.
2. Using a Phillips head screwdriver, tighten the captive screw on each end of trough into standoff to secure it to shelf.

#### Trough Removal (If Required)

1. Using a Phillips head screwdriver, loosen the two captive screws located on the inside of the fiber management rings on each end of the trough, then pull the trough off.

**Note:** Captive screws will not disengage from trough.

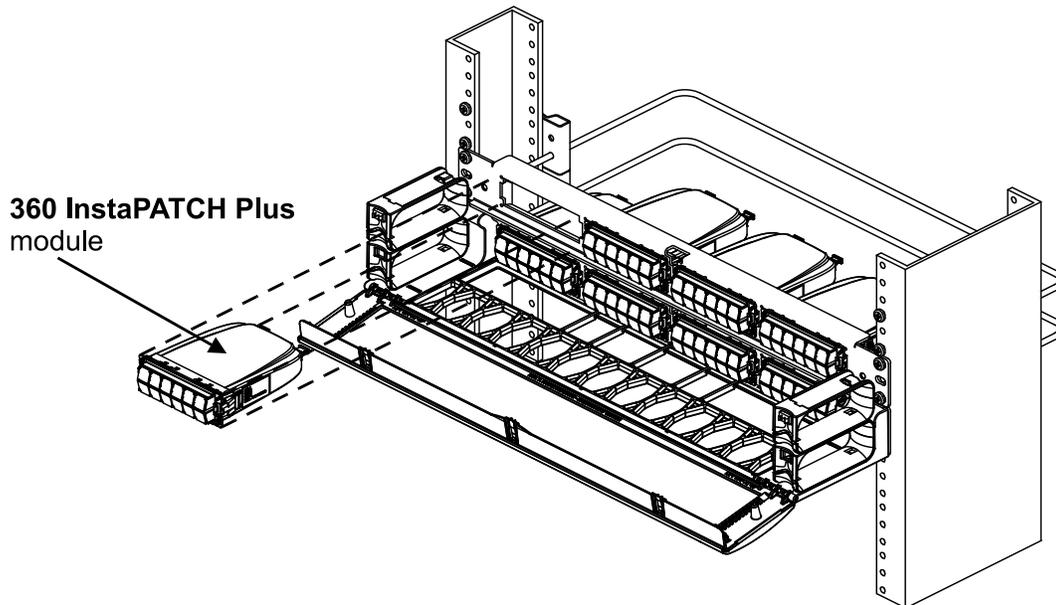
**Step 4 – Install Door (MP-1U and MP-2U Panels Only)**

**Note:** The above figure shows door installation on an MP-1U panel. The procedure for an MP-2U panel is the same.

1. Remove door from protective wrapping.
2. Orient door at an angle from trough and position hinge pins on door into hinge sockets on trough as shown.
3. Using one hand to support bottom of trough on one end, push down on inside of door over hinge pins with other hand to seat pins into hinge sockets.
4. Repeat on other end to secure door to trough.
5. Pivot door into the vertical position until strikes engage latches and door snaps into the closed position with an audible click.
6. Door may be reopened by pulling on both upper corners of door (opposite strikes) until the latches release (verified by an audible click).

**Note:** Trough door may be removed when opened to a 45° position, by holding one of the side hinge brackets and pulling upward until hinge pins release from socket. Lift door to release from hinge socket on other side bracket.

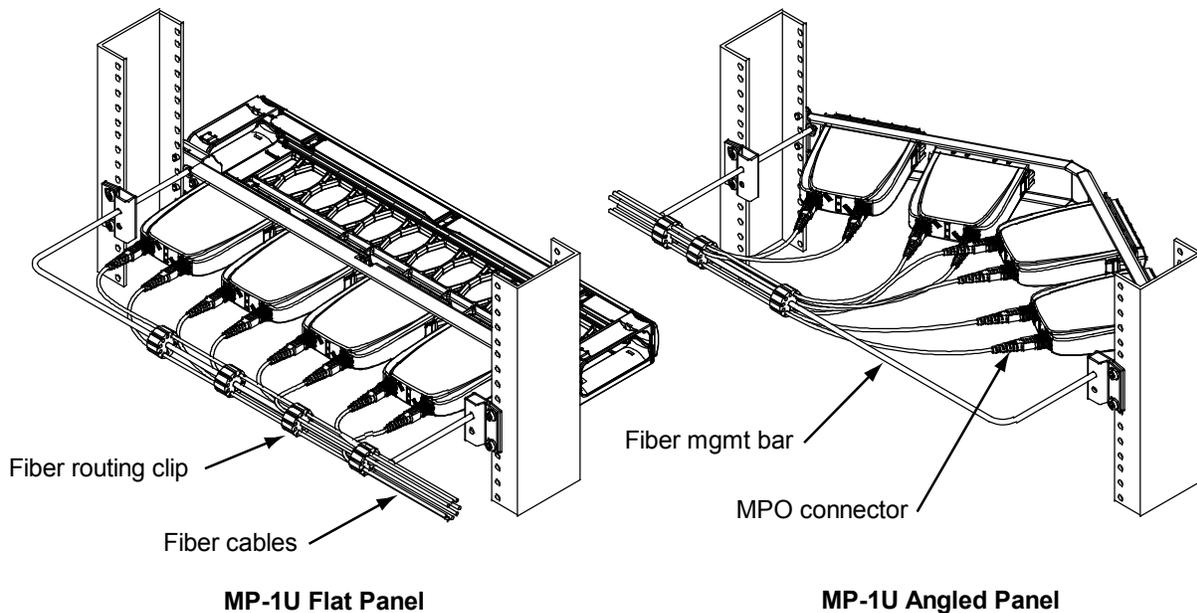
## Step 5 – Install Modules



**Note:** If trough and door were installed at previous steps, trough door must be fully opened or removed before modules may be installed.

1. Remove blank panel from panel opening at desired location.
2. Orient module in ALPHA or BETA position as required and slide into opening in panel.
3. Push module against panel until latches engage with an audible click.
4. Repeat for remaining locations.

## Step 6 – Install & Route Trunk Cables

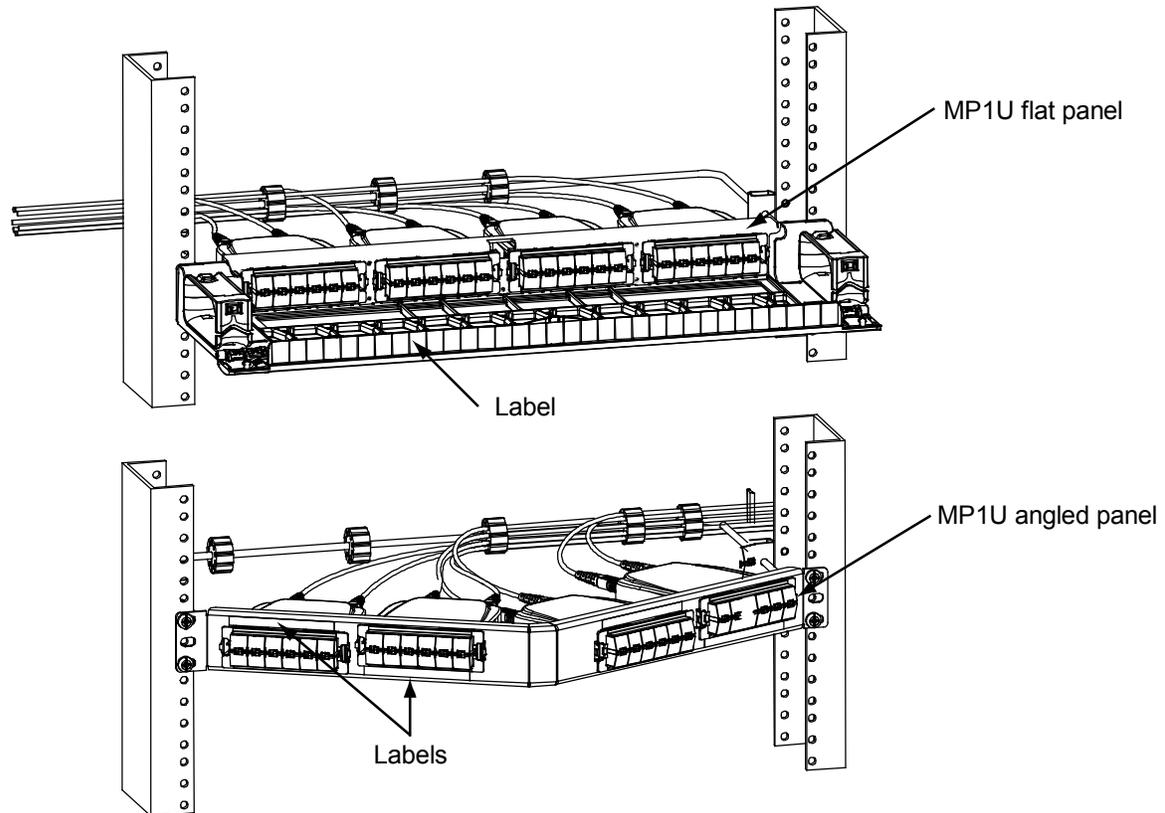


**Note:** The above figure shows trunks cables on the MP-1U flat and angled panels. Cables on the MP-2U flat panel are routed the same.

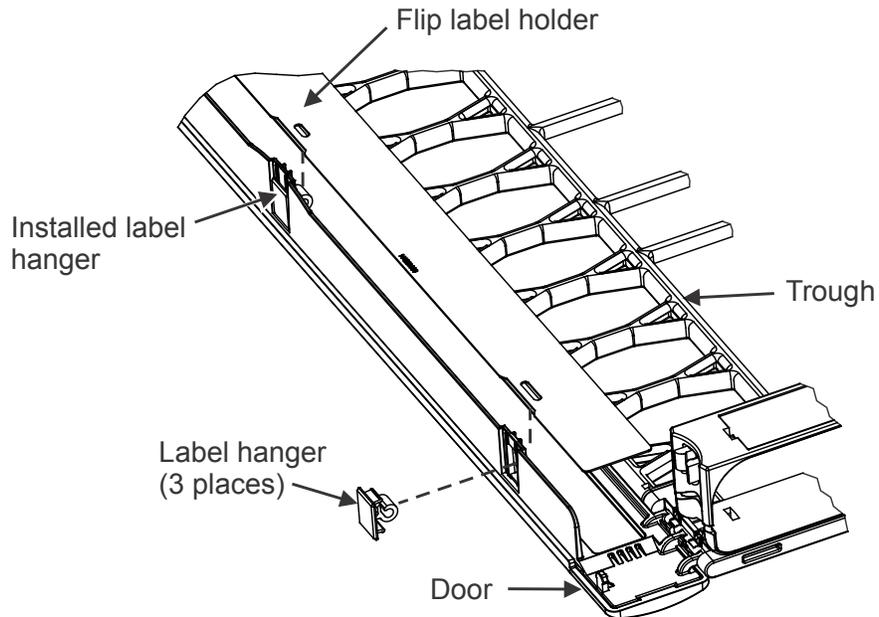
1. Terminate MPO connectors into modules.
2. Slip fiber routing clips over fiber management bar approximately where required.
3. Spread open a slot position provided on fiber routing clip and secure fiber cable inside.
4. Repeat until all cables are secured and adjust position of clips as required for a smooth routing.

**Note:** It is recommended to begin routing fiber cables from the module nearest the side of planned fiber exit and work toward module furthest away.

## Step 7 – Install Labels



1. Affix labels to surface (rib) on trough door (for MP1U flat panel) or on spaces provided above or below module/panel on faceplate (MP1U angled panel).
2. Labels included with shelf may be used or printable label templates are available on the **CommScope** website, which can be used along with available label stock to create finished port numbering labels. To print a designation label, go to <http://www.commscope.com/Resources/Labeling-Templates> and scroll down to the **360G2 Panels and Shelves** and select the appropriate label template.



### Install Flip Label Holder on Trough Door

1. Open trough door to 90°, orient the three provided label hangers as shown, and insert them into openings in rib on trough door.
2. Orient label holder perpendicular to label hangers with slots aligned with hangers. Insert edge of label holder into hangers so that slots slide over the hangers. The label holder should pivot on the hangers freely.
3. Apply labels on surface of flip label holder facing door to be seen when door is closed.