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SYSTIMAX 360™ 2U and 4U Ultra High Density (UHD) Fiber Optic Fixed Shelf Instructions

General

The **SYSTIMAX 360**™ fiber optic shelves, UHD-2U and UHD-4U, are 19-inch (483mm) wide rack mounted, ultra high density (UHD) shelves that accommodate **360 InstaPATCH**® distribution modules (DM) and 360 MPO distribution panels (DP). The 2U shelf accommodates a total of twelve distribution modules. The 4U shelf accommodates a total of twenty four distribution modules. The 360 **InstaPATCH**® distribution modules are equipped with single/duplex multi-port LC adapters on the front and MPO adapters on the rear. This product is intended for indoor use or can be used outdoors in a suitable protective enclosure.

Ordering information is listed below:

Material ID	Part No.	Description
760190777	360G2-2U-MOD-UHD-FX	**360G2**-2U UHD fixed shelf, accepts 12 **InstaPATCH** modules or MPO distribution panels
760190769	360G2-4U-MOD-UHD-FX	**360G2**-4U UHD fixed shelf, accepts 24 **InstaPATCH** modules or MPO distribution panels

SYSTIMAX 360™ **UHD-2U and UHD-4U Fiber Optic Fixed Shelves**

How to Contact Us

- To find out more about **CommScope**® products, visit us on the web at http://www.commscope.com/

- For technical assistance:

  - Within the United States, contact your local account representative or technical support at 1-800-344-0223. Outside the United States, contact your local account representative or **PartnerPRO**™ Network Partner.

  - Within the United States, report any missing/damaged parts or any other issues to **CommScope** Customer Claims at 1-866-539-2795 or email to claims@commscope.com. Outside the United States, contact your local account representative or **PartnerPRO** Network Partner.

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Tools Required

- Phillips head screwdriver
- Isopropyl alcohol
- Lint-free wipes or tissues.

Separately Orderable Parts

Material ID	Part Number	Description
760161463	UHD-CBL-BRKT-3/8-NPT	Shelf mounted bracket for 3/8" cables
760161471	UHD-CBL-BRKT-1/2-NPT	Shelf mounted bracket for 1/2" cables
760058685	RMB-6-3/8 BRACKET	Rack mounted bracket (RMB) for 3/8" cables
760058677	RMB-6-1/2 BRACKET	Rack mounted bracket for 1/2" cables
760058701	RMB-5-3/4 BRACKET	Rack mounted bracket for 3/4" cables
Various	Various (see note)	**360 InstaPATCH** distribution modules (DM)
Various	Various (see note)	**360** MPO distribution panels (DP)

Note: Contact your local account representative for ordering numbers for modules or panels.

⚠ 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 shelf is recommended. Although standard safety glasses provide no protection from potential optical radiation, they offer protection from accidental airborne hardware and cleaning solvents.
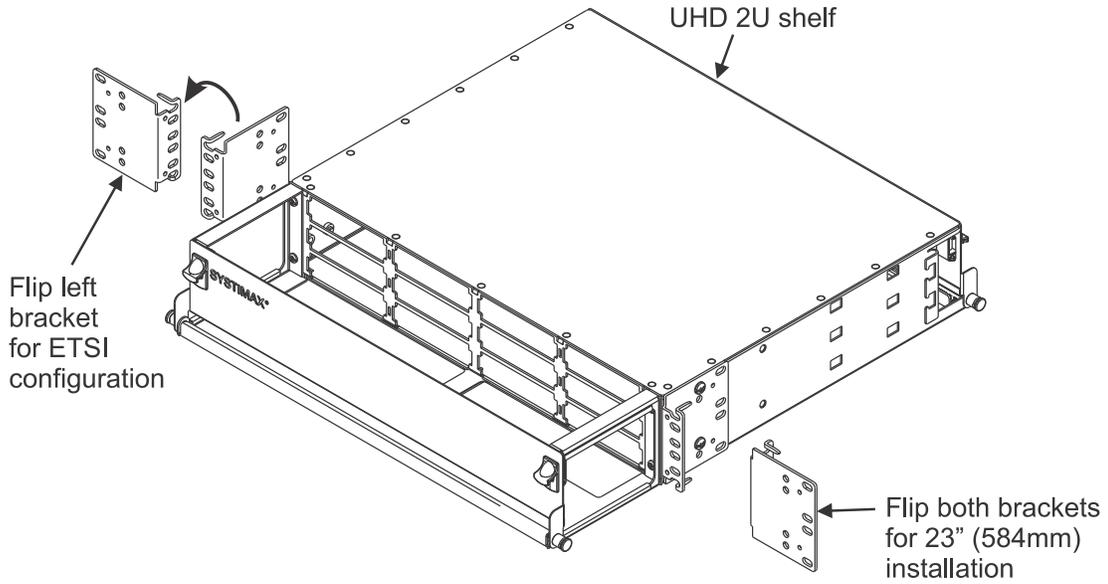
Step 1 – Verify Parts

Loose Parts Furnished with Shelf	
Quantity	**Description**
1	Front door
1	Rear door
1	Trough
4	12-24 x 1/2 screws
4	M6 x 12 screws
1	Hook-and-loop kit

1. Verify parts shipped with this unit against the parts listed in the table.
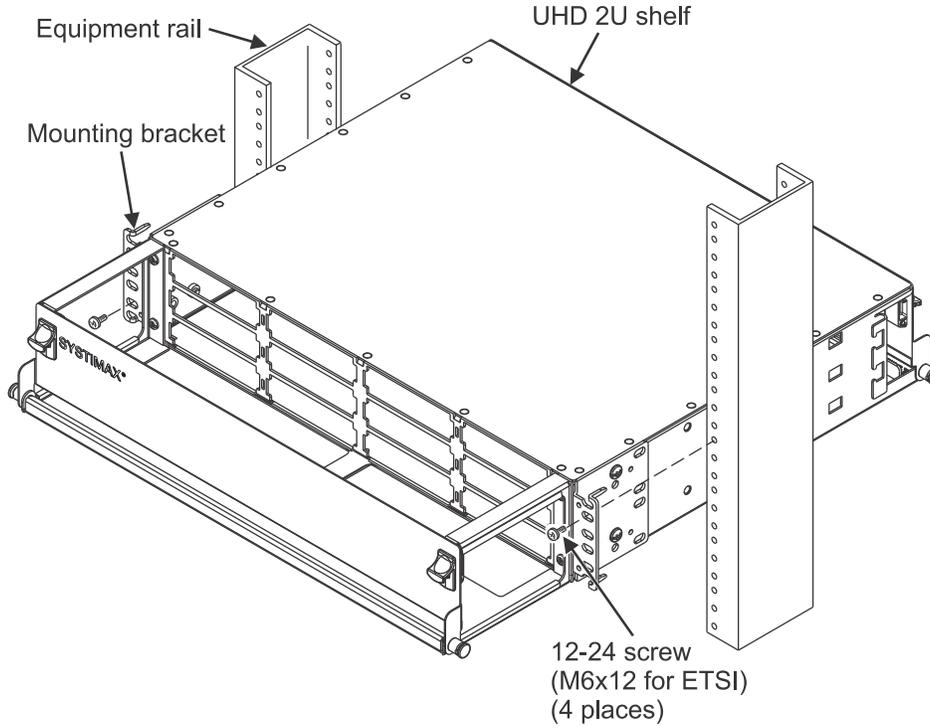
Step 2 – Configure Mounting Brackets and Mount Shelf to Equipment Rack

Note: The illustrations in this instruction sheet show the 2U shelf.
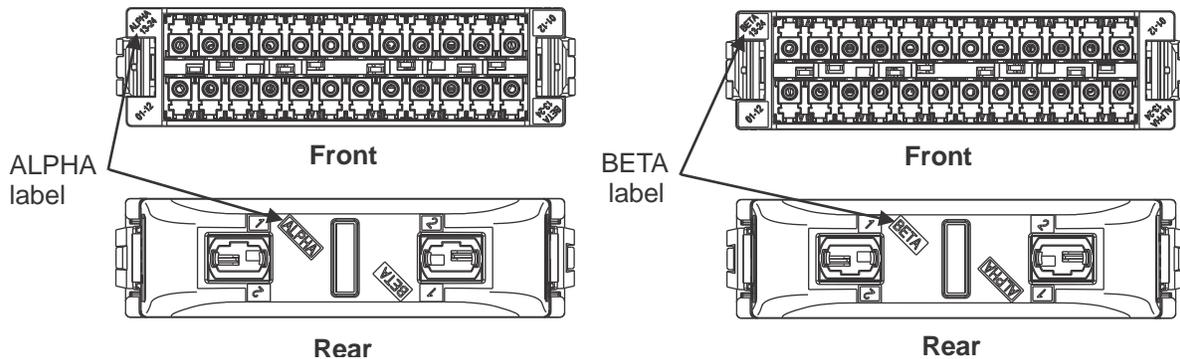

1. Configure mounting brackets on shelf to match type of equipment rack shelf is being installed on.

    Note: Shelf brackets are factory configured for 19-inch (483mm) rack mounting.

2. Align tabs on mounting brackets (two per bracket) with holes on front of equipment rails.

3. Install shelf to front of equipment rails and secure with supplied hardware, four 12-24 x 1/2" screws for 19-inch (483mm) rack and 23-inch (584mm) racks and four M6 x 12 screws for ETSI racks.

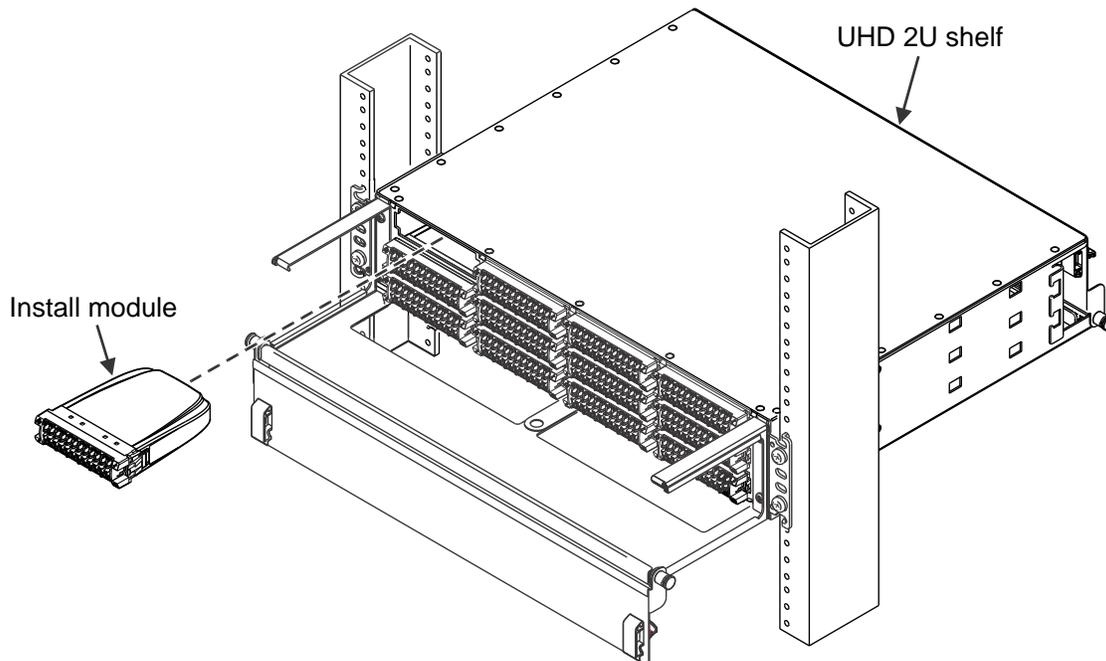## Step 3 – Configure and Install 360 InstaPATCH® Plus Modules

ALPHA
label

Front

BETA
label

Front

Rear

Rear

Distribution Module in ALPHA Configuration

Distribution Module in BETA Configuration

Note: DMs **must** be configured as shown for proper polarity. Identical **InstaPATCH** modules are used at both ends of trunk cable, but module orientation is inverted from end to end. DM at one end of trunk cable **must** be oriented in "ALPHA" configuration, while module at opposite end of trunk cable **must** be oriented in "BETA" configuration.
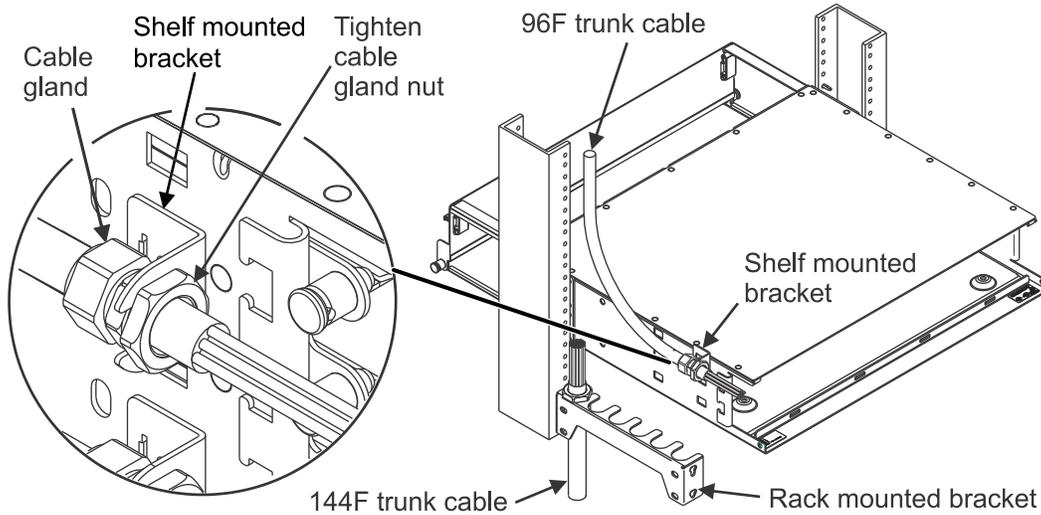
1. Orient DMs in the "ALPHA" or "BETA" configuration as shown above before installation.

UHD 2U shelf

Install module

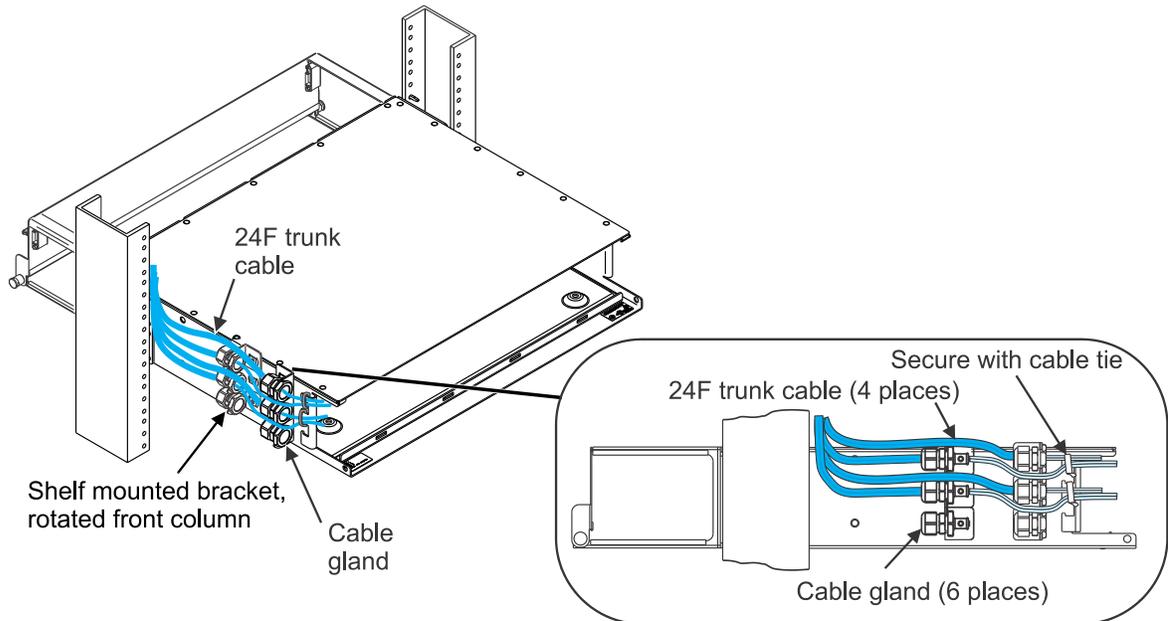**Note: InstaPATCH** modules are not included and must be ordered separately.

2. Starting at the left-most position, slide module into position in bulkhead as shown. Modules are held in place with side tabs snapped into panel.

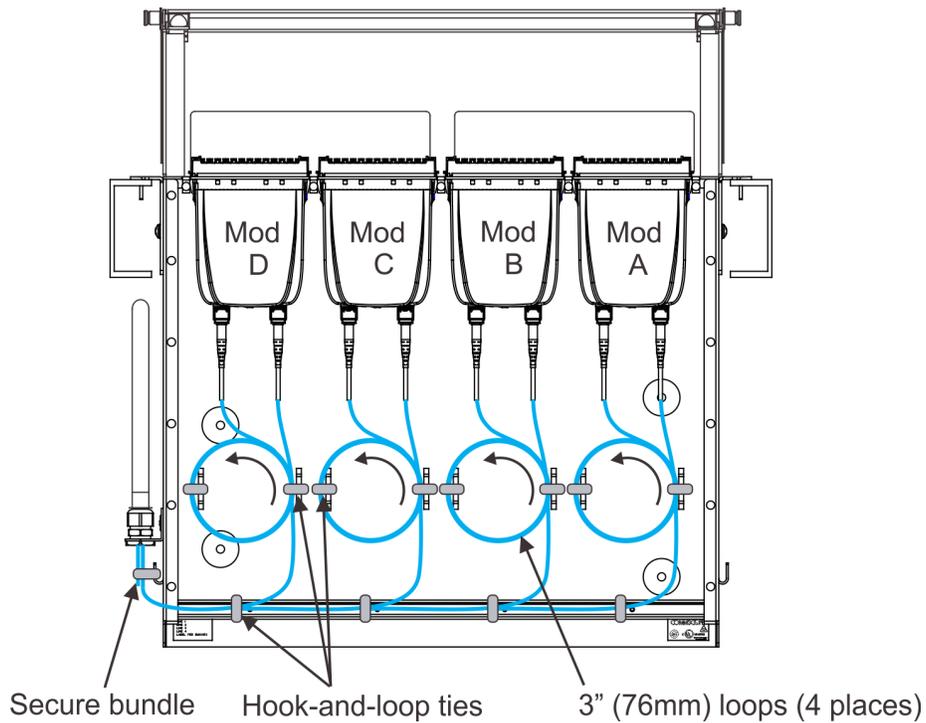## Step 4 – Terminate Trunk Cables

High Density Trunks

1. Secure incoming cables to 2U shelf using either the separately orderable shelf mounted bracket or the rack mounted bracket (RMB). For rack mounted brackets, follow instructions included with the brackets.

2. Mount trunk cables to rack mounted bracket or shelf mounted bracket as shown above.

3. Terminate trunk cable fanouts.

Low Density Trunks

1. When using 24F trunks, one trunk per module, secure 4 trunk cables (usually 2 each side) aligned to 'T' shape bend limiter. Alternate adjacent cables between front column of shelf mount brackets and rear column of shelf mount brackets as shown above.

2. Rotate shelf mounted brackets as shown to provide more room to route trunks.

3. Secure each bundle to the bend limiter with cable ties.
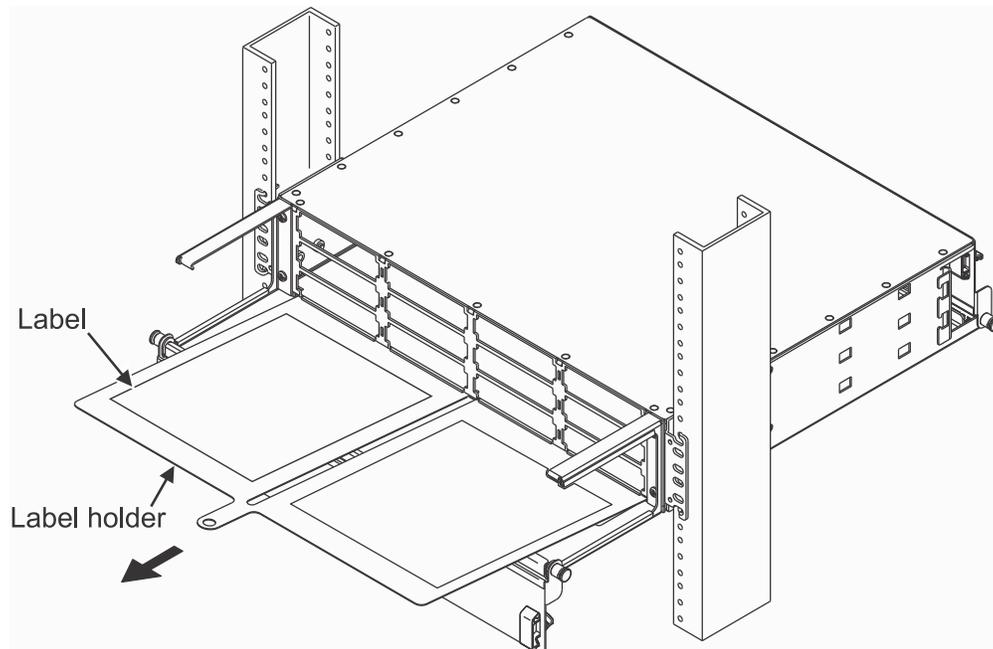
4. Terminate 24F trunk cable fanouts.

Step 5 – Route Trunk Cable Fanouts

Secure bundle   Hook-and-loop ties   3" (76mm) loops (4 places)

1. Mate MPO connector(s) on distribution panel with those on trunk cable or ruggedized fan out.

2. Create 3-inch (76mm) loops with cable to manage excess slack. Route loops counter clockwise as shown, with cables feeding distribution modules A, B, C and D.

   Note: Secure cables with hook-and-loop ties and bundle with cable tie to "T" shape bend limiters on sides.
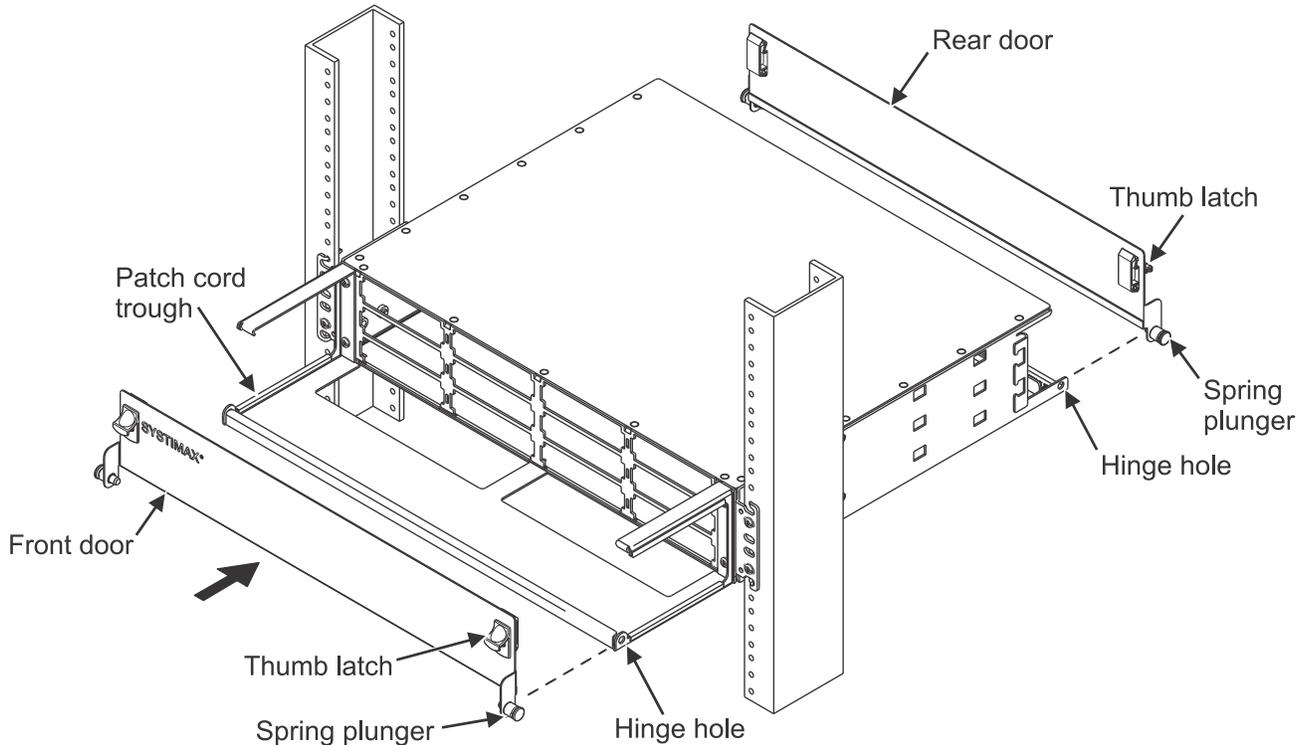
Step 6 – Install Port Designation Label

Label

Label holder

1. To print a designation label, go to:
   http://www.commscope.com/Resources/Labeling-Templates
   and scroll down to the *360 UHD Shelves* and select the proper label template.

2. Use **Excel**® to record fiber routing information on designation label.

3. Print label on 8.5" x 11" (letter) adhesive-backed paper.

4. Slide label holder out and adhere printed label as shown on previous page.

Step 7 – Install Door

1. Shelves ship with patch cord trough attached to shelf, so no assembly is required.

2. Mount front and rear doors to shelf by lining up each spring plunger to hinge hole in trough and snapping into hole as shown.

3. Pivot door to secure with thumb latches.

Step 8 – Remove Door and Patch Cord Trough

1. Push down on thumb latches to open door. Door can be removed by pulling spring plungers out, away from door.

2. To remove patch cord trough, remove door and remove the 4 screws mounting the trough to shelf.