CORNING

High-density 96-fiber Angled Shelf

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1. General

This 1U shelf is designed to house a 96-fiber module with fixed and keyed LC connector adapters for front jumper management and strain-relief capability for Plug & Play™ systems trunk rear access.

2. Contents

- 1U High-density 96-fiber Angled Shelf
- Mounting hardware kit:
  - (2) Mounting brackets
  - (4) 12 x 24 x.5 screws
  - (8) 10-32 x 0.25 screws
- Waterfall kit:
  - (2) Waterfall brackets (left and right)
  - (2) Routing clips
  - (4) 6-32 x 0.25 screws
  - (6) 6-32 x 0.25 screws
- Radius guide kit:
  - (3) Fiber routing guides (2 short, 1 tall)
  - (2) Fiber spool brackets
  - (8) Hook-and-loop straps

3. Tools and Materials Required

3.1 Tools

Phillips-head screwdrivers, small and medium sizes

3.2 Materials

Corning Cable Systems’ TKT-PNP cleaning kit

4. Installation

Step 1: Using the screws provided, attach the mounting brackets to each side of the shelf as shown in Figure 1 for a 19-inch equipment rack. If installing the shelf into a 23-inch rack, reverse the brackets so that the longer leg extends out from the shelf.

Step 2: Remove the two screws from the shipping braces (Figure 1 inset). Discard the bracket and screws.

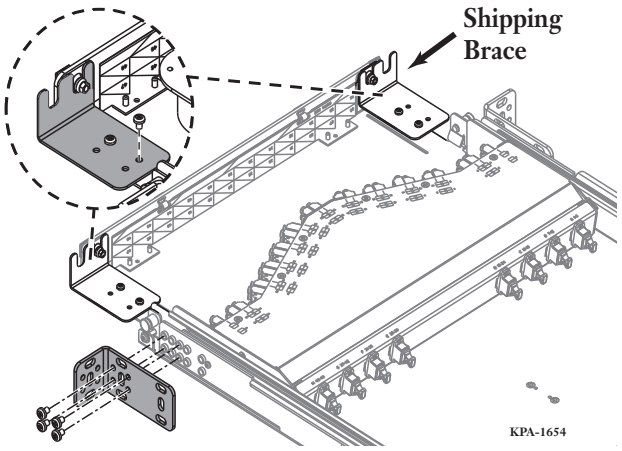


Figure 1

Step 3: Attach the mounting brackets to the equipment rack using two screws on each side (Figure 2).

Step 4: Install the left and right waterfall routing guides on each side as seen in Figure 3A (they are not inter-changeable); then insert a routing clip into each waterfall guide (Figure 3B).

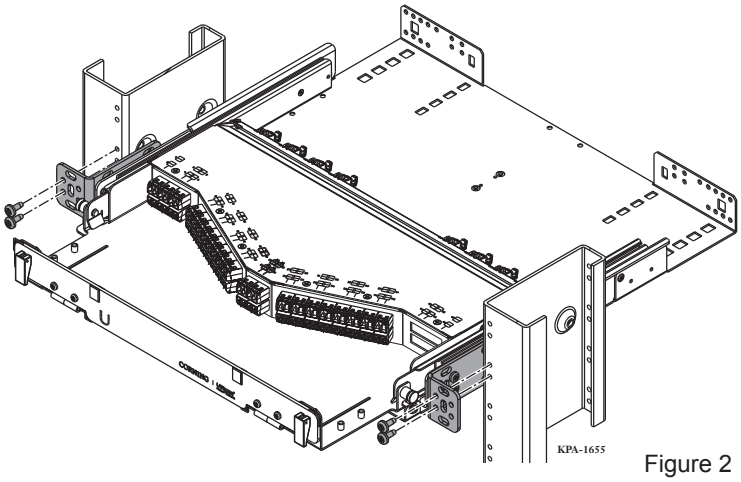
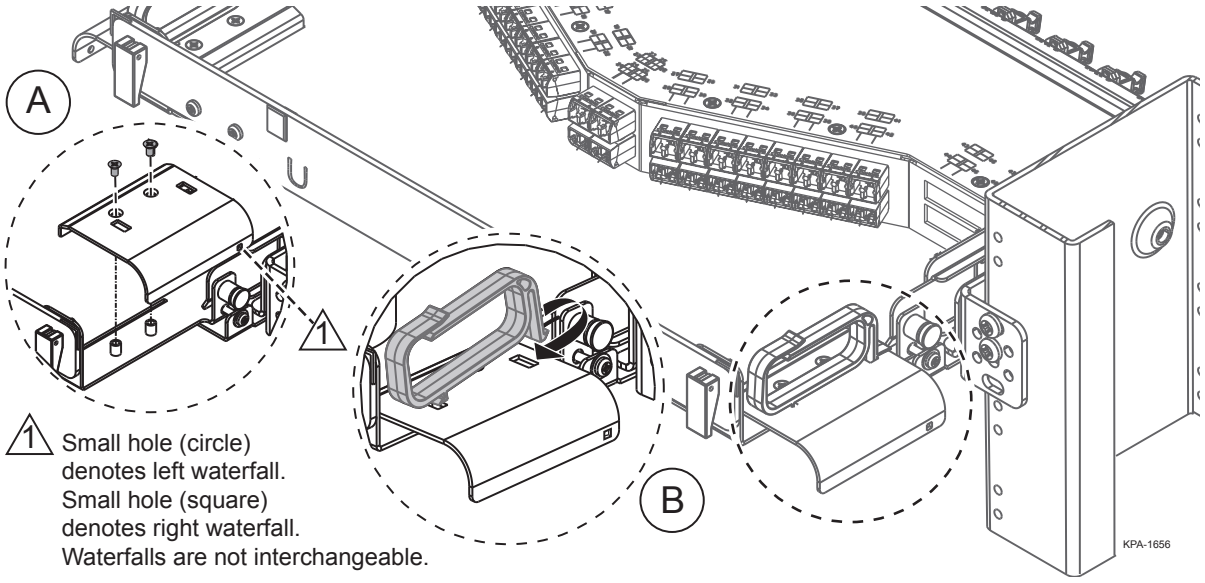


Figure 2



1 Small hole (circle) denotes left waterfall. Small hole (square) denotes right waterfall. Waterfalls are not interchangeable.

Figure 3

5. Install Trunk Cables

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.

Step 1: Insert the feet of the U-clips into the square holes at the rear of the shelf (Figure 4A). Then slide the furcation plug of the trunk cable onto the clip as shown in Figure 4B.

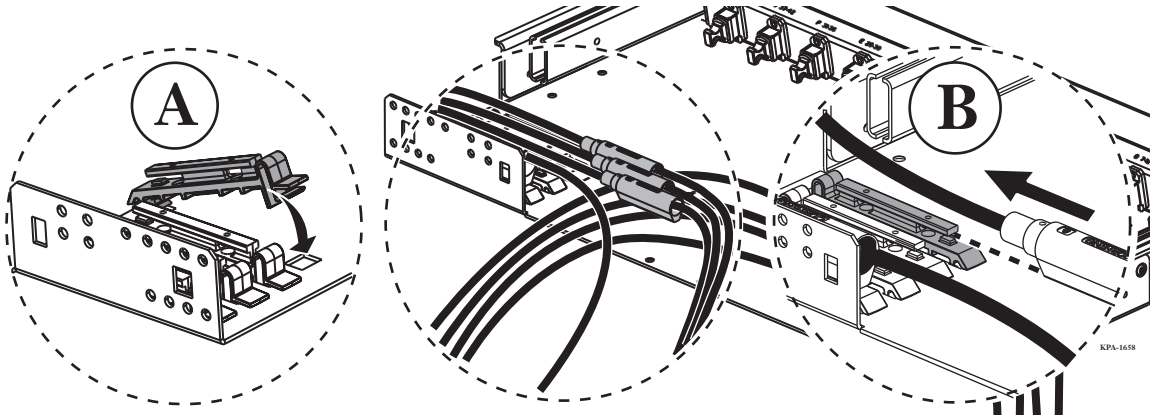


Figure 4

Step 2: For all cables, install the blinders on each side at the rear of the shelf as seen in Figure 5.

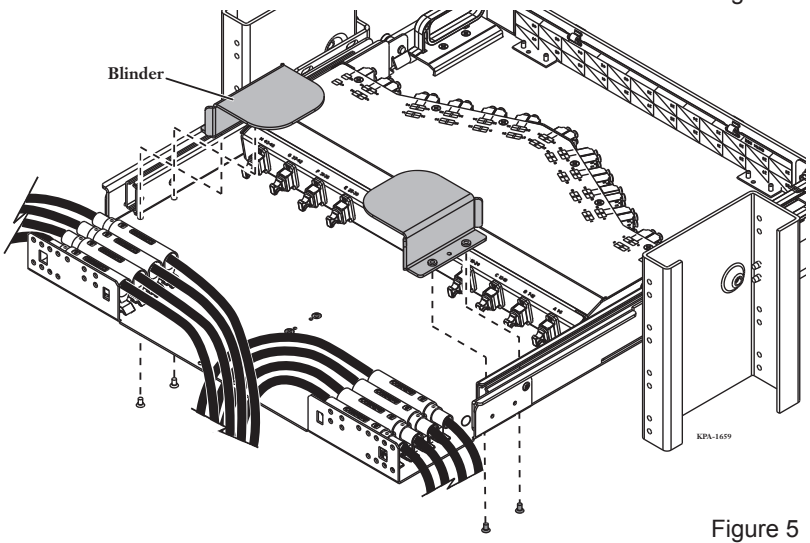


Figure 5

Step 3: If installing cables with 36-inch leg lengths, also install the two cable spools and the rear blinder from the radius guide kit (Figure 6).

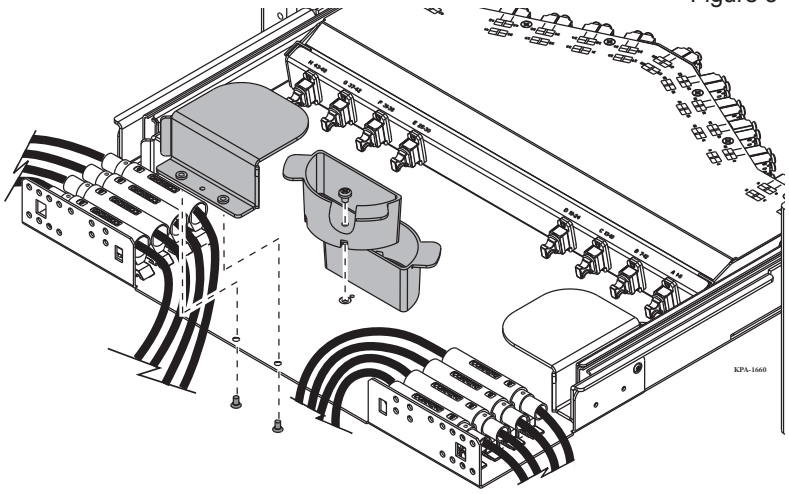


Figure 6

Step 4: Route the trunk legs as shown in Figure 7 and loosely manage the legs with hook-and-loop straps. Leave sufficient slack to allow the drawer to be pulled out without pulling on the cables.

Step 5: Remove dust caps from connectors and adapters. Clean with the Corning TKT-PNP cleaning kit before mating connectors in adapters.

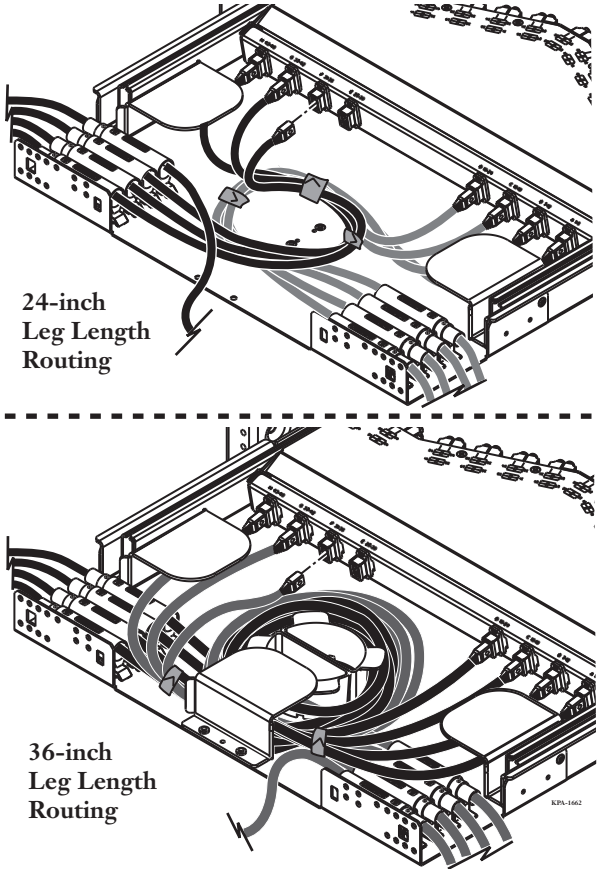


Figure 7

6. Install Jumpers

Step 1: Remove the retention screw on the right side of the shelf (Figure 8A). Pull the drawer away from the rack (B). To lower the shelf, pull out on the plunger on each side (C). Then, holding your hand under the shelf to prevent it from dropping suddenly, lower the shelf (D).

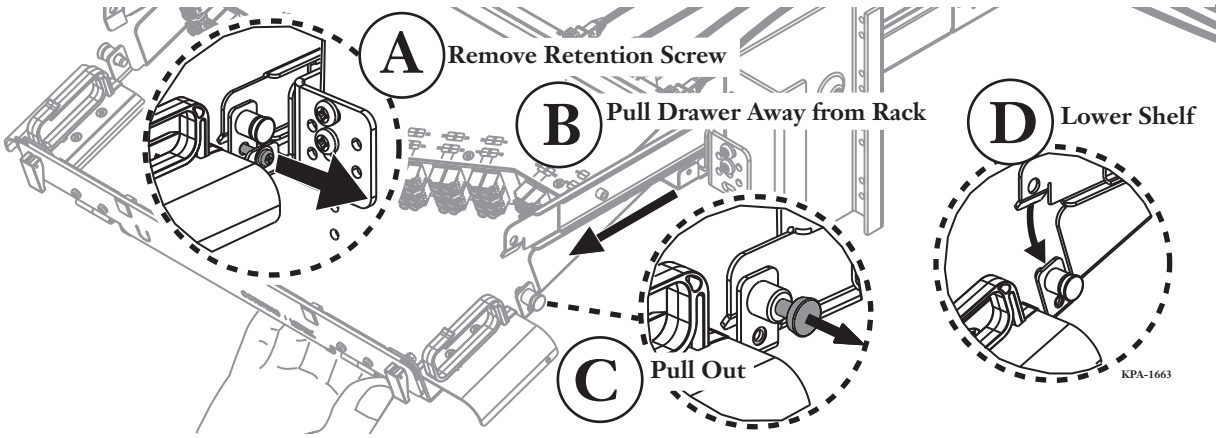


Figure 8

Step 2: Remove dust caps from connectors and adapters. Clean with the TKT-PNP connector cleaning kit.

Step 3: Insert connectors into adapters. Route jumper slack through the clips at the edge of the shelf as shown in Figure 9.

NOTE: To accommodate the travel of the drawer, it is recommended to add 2 to 3 feet of length to the jumper. This additional length will provide slack to allow the drawer to traverse to the extended position without damaging the jumper or violating minimum bend radius.

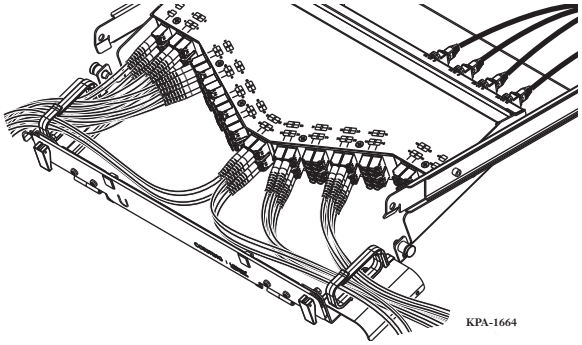


Figure 9

Step 4: Lower the front door of the shelf and record the connections on the label provided. Close and secure the door when the connections have been recorded.

7. Secure the Shelf

Step 1: Lift the shelf to a horizontal position.

Step 2: Slide the drawer back into the shelf. Ensure the plungers automatically engage the holes on each side to prevent the shelf from accidentally dropping.

8. Growth

A shelf that is not full to capacity can be expanded by adding more trunk cables and/or jumpers until the maximum capacity of the shelf is reached.

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