

revision history |

Issue	Date	Reason for Change
1	12/2007	Initial release

admonishments |

The precautionary terms used by Corning Cable Systems in its standard recommended procedures conform to the guidelines expressed in the American National Standards Institute document (ANSI Z535) for hazard alert messages. Alerts are included in this instruction based on the following:



DANGER: indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.



WARNING: indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



CAUTION: indicates a hazardous situation which, if not avoided, may result in minor or moderate injury.

1. General

This document describes installation of the Reduced-Depth 1U Housing (p/n PCH-M3-01U-RDH). The unit fits into a 19-inch utility rack, a 23-inch utility rack by using a mounting adapter bracket (p/n PCI-BKT-23, purchased separately), or a subfloor with the use of a floor-mounting bracket kit (p/n PCH-RDH-FLR-BRKT, purchased separately). The unit occupies one rack space in height.

2. Carton Contents

- (1) Reduced-Depth 1U Housing (p/n PCH-M3-01U-RDH)
- (1) Accessory bag with screws and cable ties

3. Tools and Materials Required

- Phillips-head screwdriver
- 6-32 nut driver
- Connector cleaning materials

4. Installation

4.1 Opening the Housing

Place the unit on a work surface. Pull out the plunger fasteners at the rear of the unit and lift off the top cover (Figure 1).

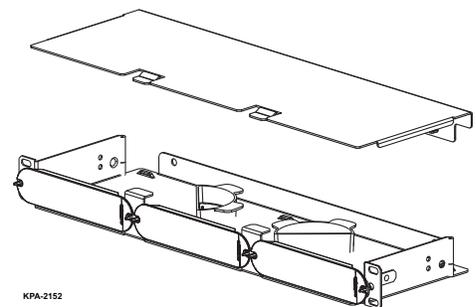


Figure 1 — Remove Cover

4.2 Installing Adapter Panels

NOTE: *If installing reduced-depth modules into the housing, skip to Section 4.3.*

Step 1: Determine the location for installing the adapter panel in front of the unit. Press the tabs at each end of the blank adapter panel to remove it (Figure 2).

Step 2: Install the adapter panel in the opening. Press the plunger fasteners into the holes to secure the panel (Figure 3).

Step 3: Bring connectorized fibers into the rear of the housing, from either side, to the rear of the adapter panel. Use the radius guides, if necessary, to avoid violating the minimum bend radius of the fiber. Loosely manage the fibers using cable ties through the lances or the holes in the side of the housing.

Step 4: Remove dust caps from the connector and the adapter where the connector will be mated. Clean the connector end-face and adapter per standard company practices or as described in Section 5.

Step 5: Mate the connector into the adapter.

Step 6: Repeat steps 1 - 5 for all remaining panels.

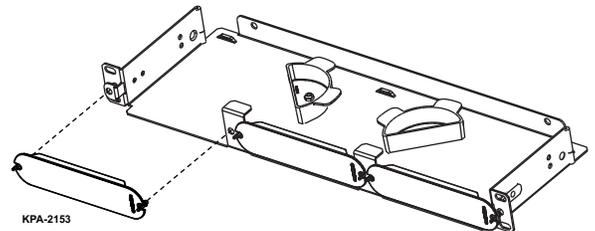


Figure 2 — Remove Blank Panels

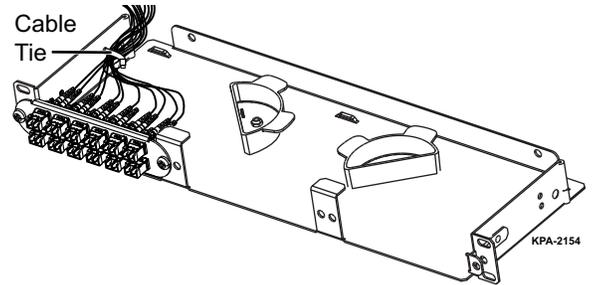


Figure 3 — Install Adapter Panel

4.3 Installing Reduced-Depth Modules

Step 1: With a screwdriver and nut driver, remove the radius guides from the housing.

Step 2: Determine the location for installation of the module in the front of the unit. Press the tabs at each end of the blank adapter panel to remove it (Figure 2).

Step 3: Install the module in the opening in the orientation shown in Figure 4. Press the plunger fasteners into the holes to secure the module.

Step 4: Bring the connectorized fiber into the rear of the housing on the right side. Clean the connector end-face and adapter per standard company practices or as described in Section 5.

Step 5: Mate the connector into the adapter.

Step 6: Repeat steps 2 - 5 for the remaining modules.

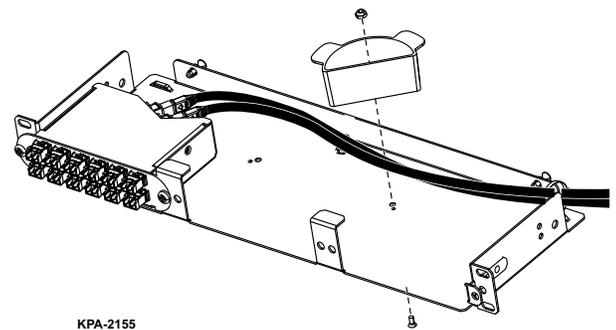


Figure 4 — Install Reduced-Depth Module

4.4 Closing the Housing

NOTE: If floor-mounting the housing, install the floor-mounting brackets as shown in Figure 6 before replacing the cover.

Step 1: Replace the cover by inserting the tabs at the front of the cover under the flanges at the top front of the housing.

Step 2: Press the plunger fasteners at the rear of the housing into the holes to secure the cover.

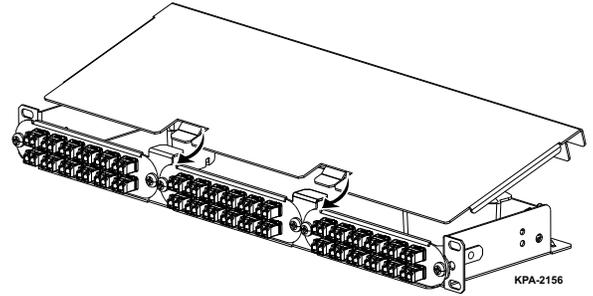


Figure 5 — Replace Cover

4.5 Mounting the Housing

Step 1: Determine the mounting location for the housing.

Step 2: If installing into a 23-inch rack, attach a mounting adapter bracket to each mounting ear of the housing (Figure 6). If installing into a subfloor, attach the floor mounting brackets to the housing as shown, then replace the cover. Hardware for mounting the bracket to the floor is not provided.

Step 3: Slide the housing into place in the rack or subfloor and secure the mounting ears (or adapter brackets) to the rack with the screws provided (Figure 7) or to the floor with hardware appropriate for your application.

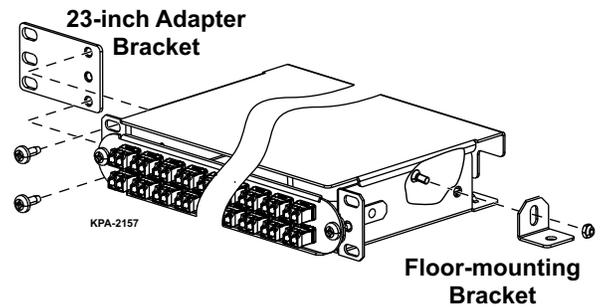


Figure 6 — Optional Mounting Brackets

4.6 Installing Jumpers

Step 1: Determine the required location for the jumper installation on the front side of the adapter panel or module per your installation plan.

Step 2: Remove dust caps from the connector and the adapter where the connector will be mated. Clean the connector end-face and adapter per standard company practices or as described in Section 5. Mate connectors in the adapters (Figure 7).

Step 3: Route and manage jumper slack per standard company practices.

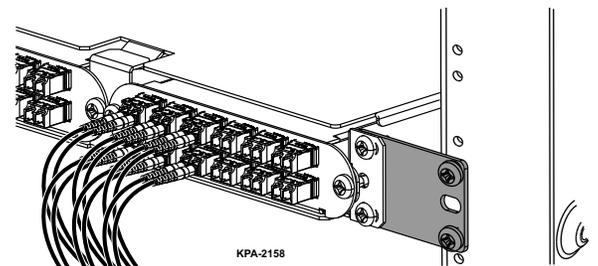


Figure 7— Attach Mounting Brackets to Rack

5. Connector Care and Cleaning

- Always keep dust caps on connectors and adapters when not in use.
- Ensure dust caps are clean before reuse.
- Use optical cleaning materials as standardized by your company.
- Clean the connector before every mating, especially for test equipment patch cords (jumpers).
- A minimum level of cleaning is listed below. Local procedures may require more rigorous cleaning methods.



CAUTION: *Isopropyl alcohol is flammable with a flashpoint at 54°F. It can cause irritation to eyes on contact. In case of eye contact, flush eyes with water for at least 15 minutes. Inhaling fumes may cause mild dizziness. In case of ingestion, consult a physician.*

- Step 1:** Remove plugs from the connector adapter.
- Step 2:** Wipe the connector ferrule twice with a lint-free wiping material moistened with isopropyl alcohol. Then wipe across the end of the ferrule.
- Step 3:** Repeat previous step with a dry wipe.

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