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003-949 Instruction, Centrix™ Platform Pigtailed Housing with Pigtailed Cassette Installation

003-1014-AEN Instruction, OptiTect® FDH-HD Pole-Mount Kits

1. General

This document describes installation of the OptiTect® fiber distribution housing (FDH-HD).

2. Carton Contents

- Fiber distribution housing (P/N FDH-HD), including:
 - (1) Mounting template (P/N FDH-LS-TMPLT-432)
 - (1) Rubber mounting cushion (isolation pad)
 - (1) Hardware mounting kit

If ordered for installation onto a pole, the housing will include:

- (1) Pole-mounting hardware kit

3. Tools and Materials Required

3.1 Materials

For mounting on a pad by inserting threaded inserts or wedge anchor threaded studs, order pad-mount kit (P/N LS-MTNG-KIT-TDST).

3.2 Tools

To install the cabinet, the following tools may be required:

- Hoist or lifting device capable of lifting at least 250 pounds (including packaging)
- Forklift or hand truck
- 216B tool or a 7/16-in nut driver (for entry into the interior of the cabinet)
- Crescent wrench
- Drill with 7/8- to 1-in auger bit
- 9/16-in nut driver or socket
- 3/4-in nut driver or socket
- Phillips screwdriver

4. Installing the Cabinet



DANGER: Only certified operators should operate the crane. Ensure that stabilizers are extended and firmly positioned before lifting. Avoid overhead obstructions or power lines when lifting.

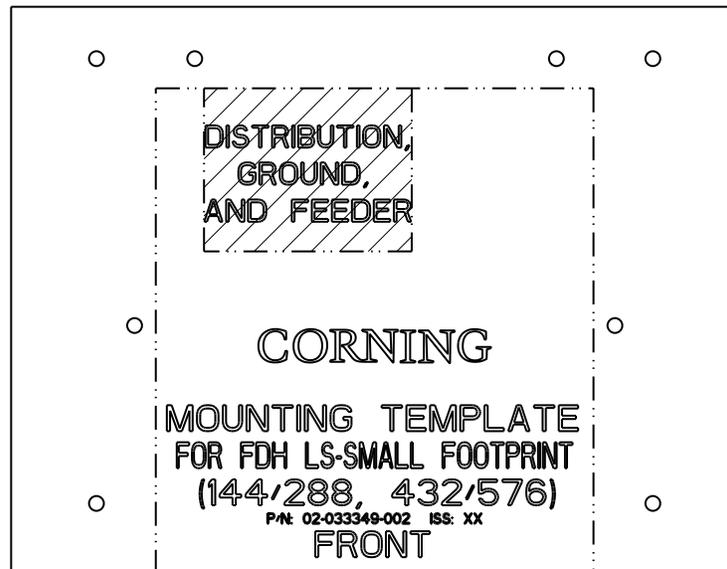
IMPORTANT: Ensure that a lifting device, such as a hoist or crane, capable of lifting at least 250 pounds is available to lift the cabinet into position. The cabinet is heavy and requires two people to maneuver it. Observe all safety precautions while using the cable hoist. Make sure the door is locked in the closed position. Failure to do so may result in personal injury or damage to the cabinet or cables.

4.1 Mounted on A Pad

Step 1: If not using a precast pad with mounting hardware installed, use the provided template to mark the location for the mounting bolts (Figure 3). Drill holes for 0.5-in bolt anchors in the poured pad and insert the mounting bolts (0.5-in diameter). Or use an anchor assembly kit (FDH-LS-ANCHOR-432).



CAUTION: Fiber optic cable is sensitive to excessive pulling, bending and crushing forces. Consult the cable specification sheet for the cable you are installing. Do not bend the cable more sharply than the minimum recommended bend radius. Do not apply more pulling force to the cable than specified. Do not crush the cable or allow it to kink. Doing so may cause damage that can alter the transmission characteristics of the cable; the cable may have to be replaced.



TPA-3800

Figure 1

- Step 2:** Attach cables to the lifting eyes/safety hooks on each side of the cabinet (Figure 2).
- Step 3:** Unlock the latch on the front door using a 216B tool or $7/16$ -in nut driver. Rotate the handle 90 degrees counterclockwise (Figure 2 left inset). Open the cabinet door until the door restraint automatically engages to hold the door in the open position (Figure 2 right inset).
- Step 4:** Lift the skirt access panel off the front of the skirt and set aside.
- Step 5:** Lift the door restraint at the bottom of the open door to disengage (Figure 2 right inset). Close the door. Rotate the front door handle 90 degrees clockwise and press handle inward to return to locked position. Ensure the door is locked prior to lifting the cabinet
- Step 6:** Carefully lift the cabinet and move it into position over the pad. Be sure that cable slack is not pinched or kinked during the lifting operation.
- Step 7:** Fold the rubber mounting cushion as shown and place onto the bolts in the pad (Figure 2).
- Step 8:** Insert cable into the appropriate duct(s). Slowly lower the cabinet while simultaneously feeding the cable slack through the duct(s). Do not exceed 200 lb of pulling force on the cable or violate the minimum recommended bend radius (10 x cable diameter).
- Step 9:** Continue lowering the cabinet onto the pad so that the mounting bolts in the pad are aligned with the holes in the cabinet's skirt. Lower the cable hoist until the full weight of the cabinet rests on the pad.
- Step 10:** Bolt the cabinet to the pad.
- Step 11:** Remove the cable hoist and lifting cables.

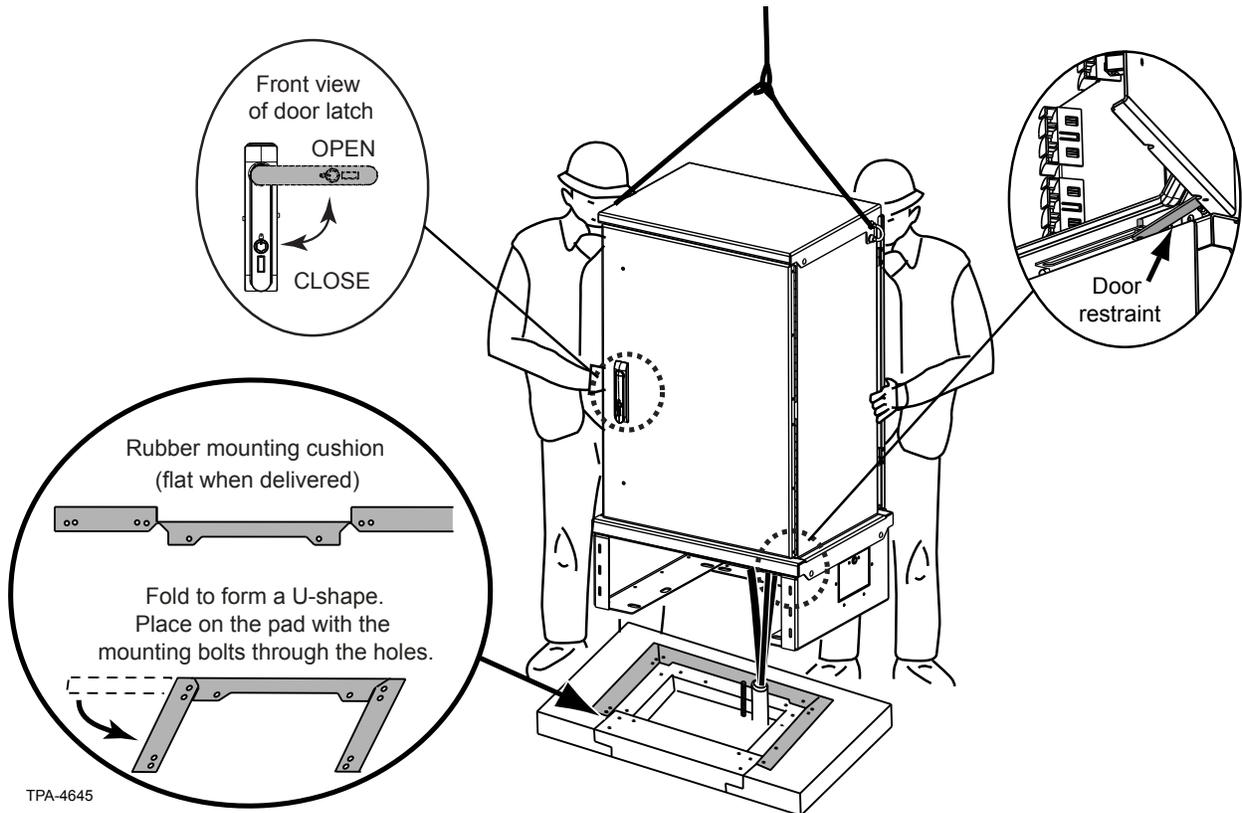
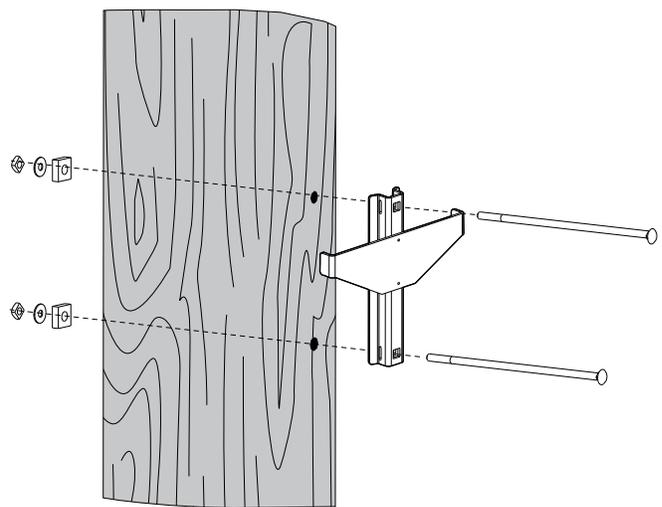


Figure 2

4.2 Mounted on a Pole (Center-Mounted)

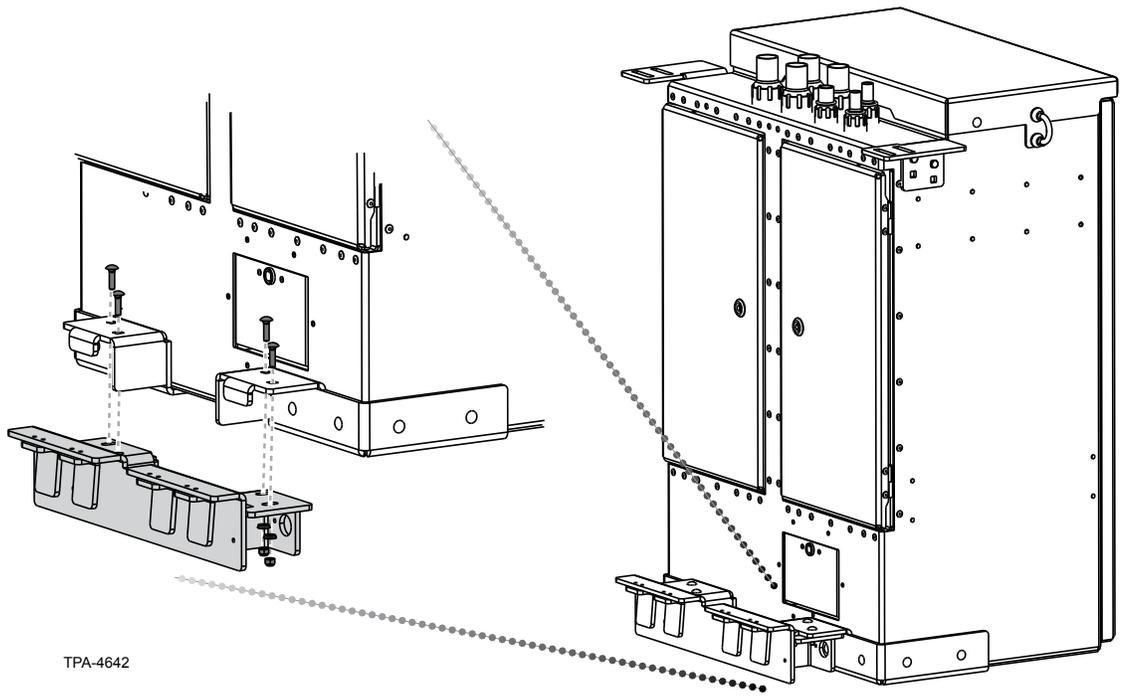
The cabinet can be mounted onto a pole using a mounting hardware kit (provided).

- Step 1:** Attach the mounting hardware kit to the pole (Figure 3).
- Step 2:** Attach the hanging bracket to the base of the cabinet as shown in Figure 4.



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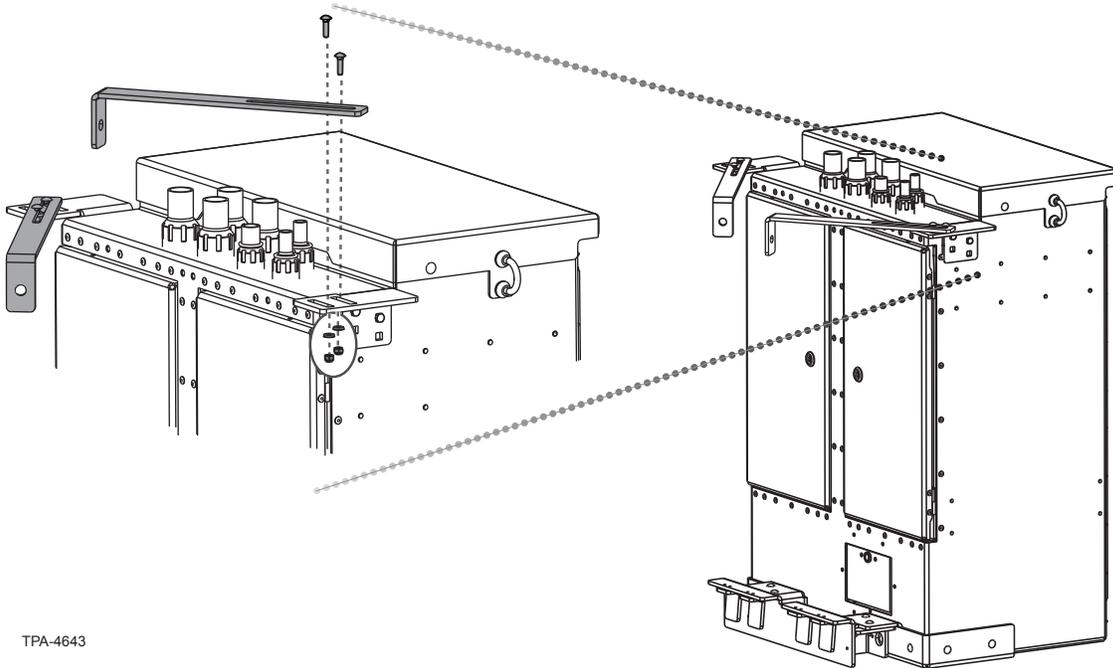
Figure 3



TPA-4642

Figure 4

Step 3: Attach the angled brackets to the mounting bracket at the top of the cabinet as shown (Figure 5).



TPA-4643

Figure 5

Step 4: Use a crane or hoist to lift the cabinet into position next to the pole (Figure 6). Hang the cabinet on the mounting bracket on the pole. Observe all standard safety practices to avoid personal injury or damage to the cabinet.

Step 5: Secure the top of the cabinet to the pole using the angled brackets at the top of the cabinet (Figure 6).

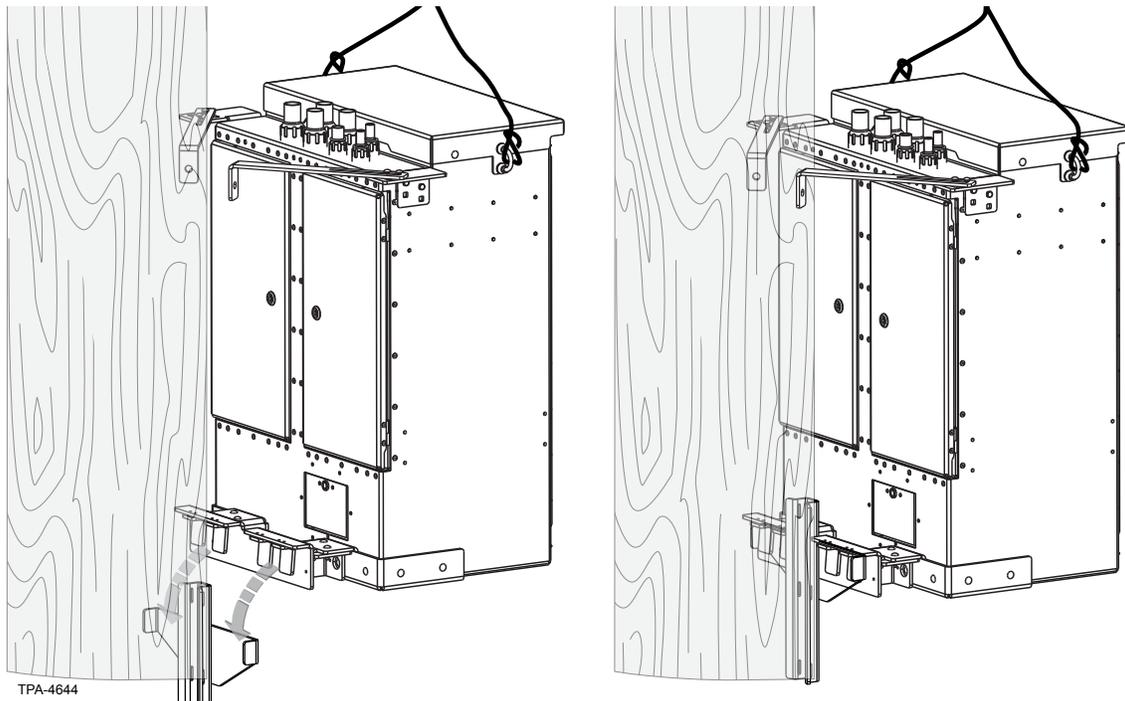


Figure 6

IMPORTANT: To protect the installer from injury (fall from pole) when the cabinet is pole-mounted more than a few feet from the ground, attach the free end of the safety harness to one of the cabinet's safety loops found on each side at the top of the cabinet. Only after completing this step should the installer move from the pole to a pole seat or balcony. The safety harness should remain attached to the safety loop on the cabinet during all work operations. Reverse the procedure before descending from the pole.

4.3 Mounted on a Pole (Side-Mounted)

The cabinet can be mounted onto a pole using a mounting hardware kit (provided).

- Step 1:** Attach safety loop to the top angled support bar (Figure 6a) with four 3/8-in lock washers and nuts.
- Step 2:** Attach top angled support bar to the top cross arm (Figure 6b) with 1/2-in bolts, flat washers, lock washers, and nuts.
- Step 3:** Attach the bottom angled support bar to the bottom cross arm (Figure 6c) with 1/2-in hardware.
- Step 4:** Using the spacers as shown in Figure 7, attach the side pole-mount assembly to the side pole-mounting bracket with 1/2-in hardware. Ensure spacers are oriented as shown in the inset.
- Step 5:** Secure the completed assembly to the pole.
- For wooden poles: Use bolts, washers, locking washers, and nuts through the mounting holes at each end of the side pole-mounting bracket and through the pole.
 - For concrete poles: Slide bands through the four slotted openings along the length of the side pole-mounting bracket and secure the bands with a tensioning tool.
- Step 6:** Hang the cabinet over the top cross arm as shown in Figure 7 upper left inset.
- Step 7:** Secure bottom angled bar to bottom cross arm as shown in Figure 7 lower left inset.
- Step 8:** Cover the lifting eyes on each side of the housing with covers and secure with 10/32 nylon lock washers as shown in Figure 7 right inset.
- Step 9:** If using a safety strap during cabinet installation, attach the strap to the safety loop on the top angled bar of the mounting kit.

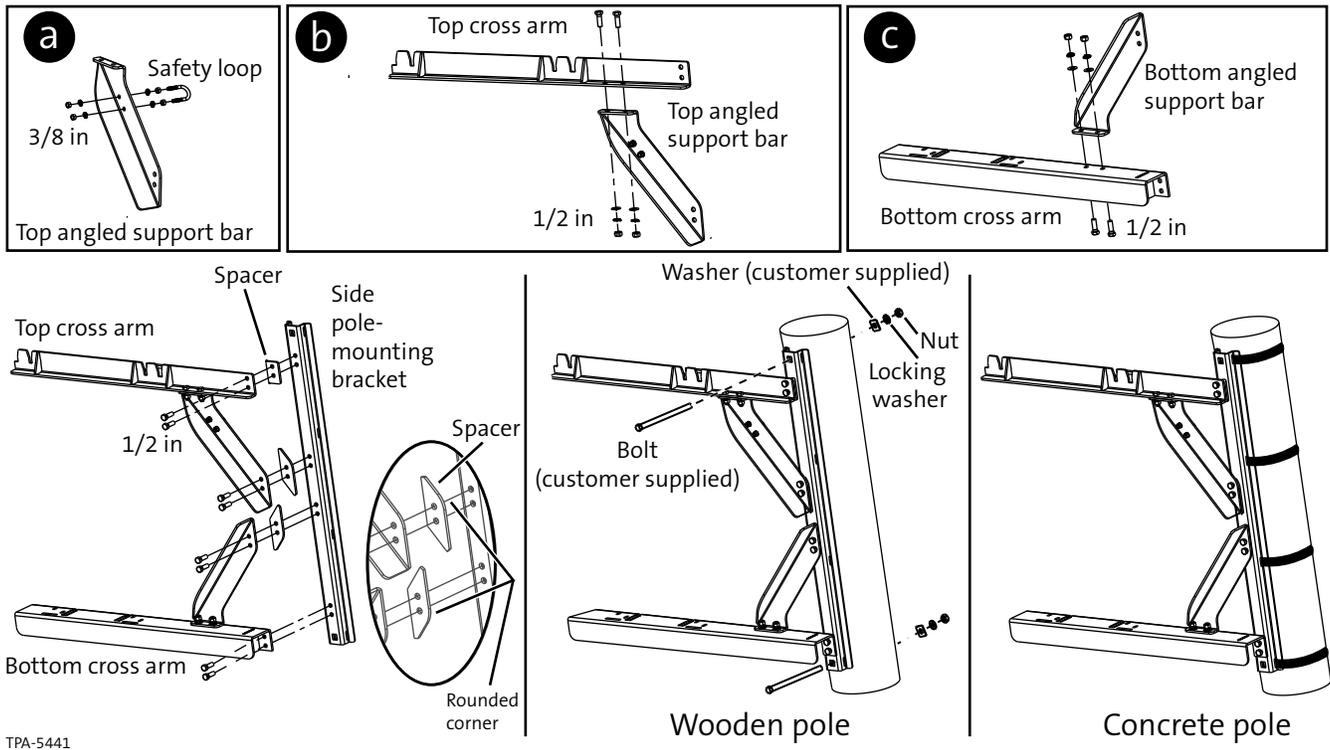


Figure 7

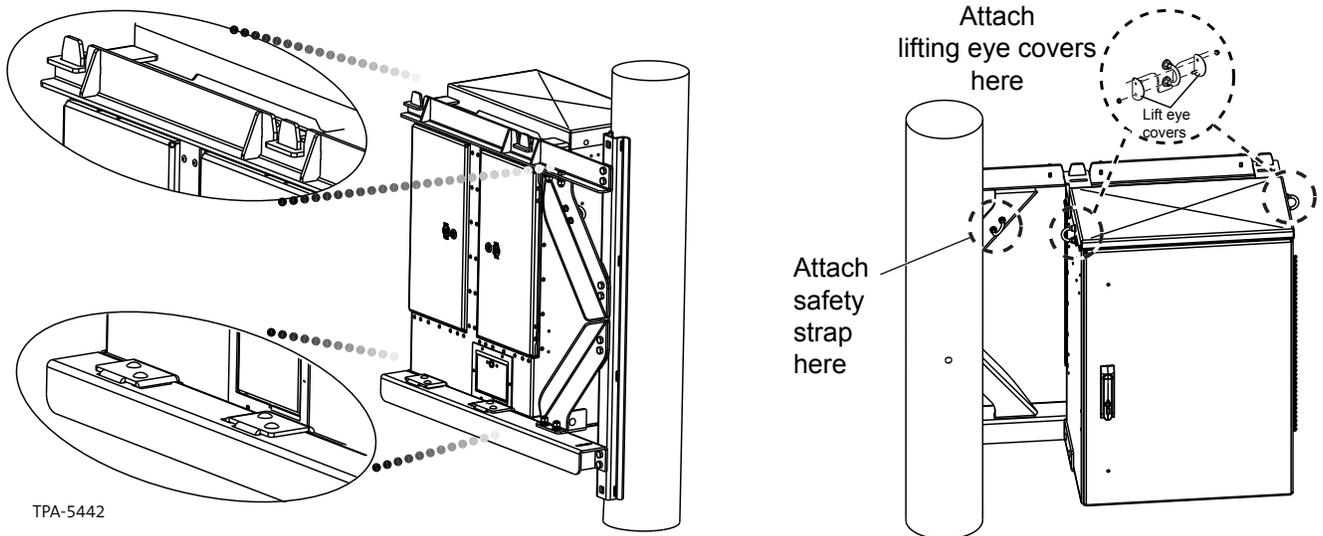


Figure 8

5. Installing Feeder and Distribution Cables

Feeder and distribution cables are routed in and out the back of the cabinet and transition up the pole for aerial applications or may route from the bottom of the cabinet for buried applications. See Figure 9 for recommended cable routing. Be sure to strain-relieve the cable according to your company's standard practices as it enters or exits the cabinet.

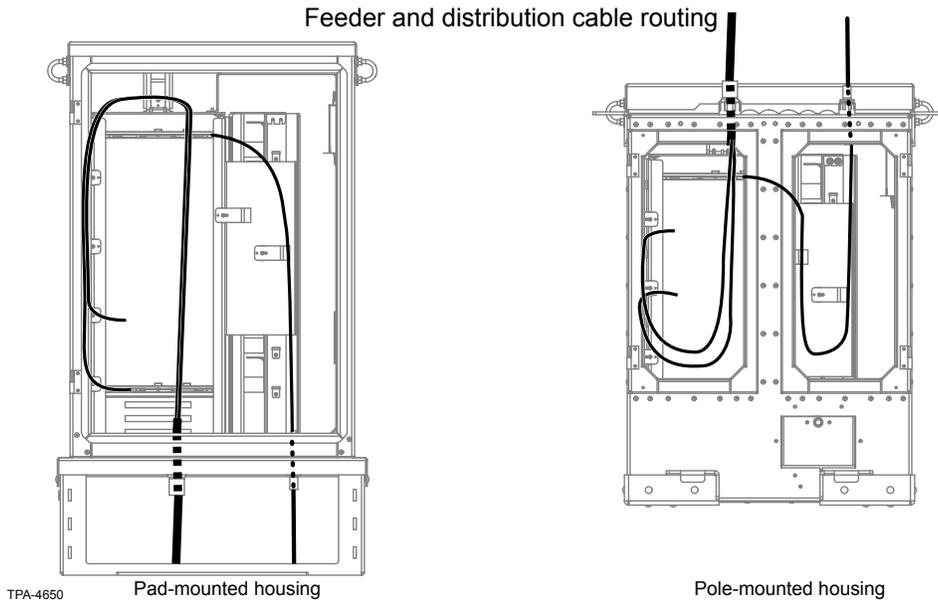


Figure 9

6. Installing Cassettes

Cassettes are purchased separately. Install the cassettes and perform all splicing operations per the instructions provided with the cassette (Standard Recommended Procedure 003-949), except for the strip lengths. Use the recommended minimum dimensional lengths as shown in Figure 10.

Strip Lengths for Centrix™ Housings in FDH-HD Cabinet

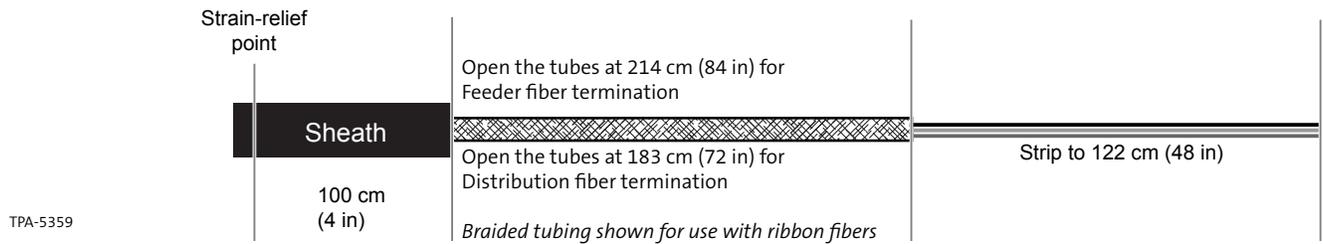


Figure 10

- Step 1:** Install up to 36 distribution cassettes from bottom to top in the distribution field (Figure 11).
- Step 2:** Install up to three feeder cassettes from top to bottom in the feeder field.

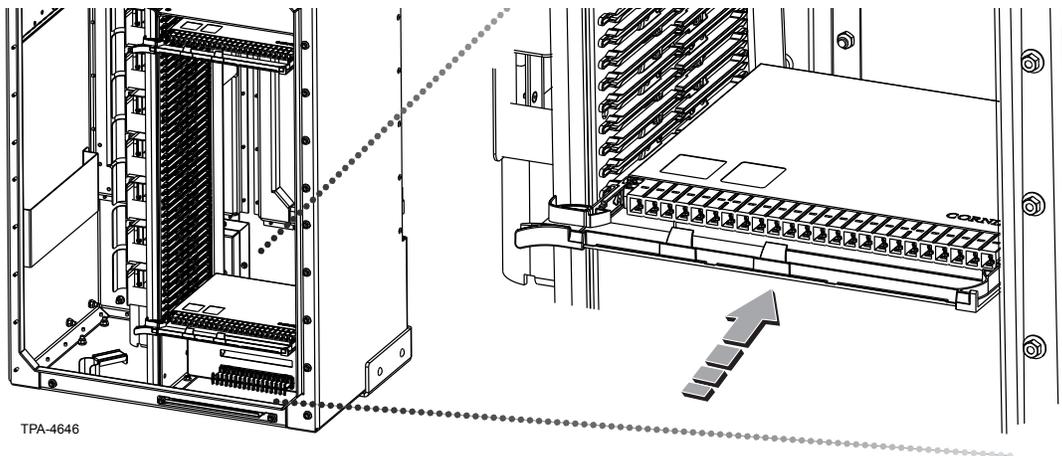


Figure 11

7. Installing Splitter Modules

NOTE: Splitter modules are purchased separately.

Step 1: Install the splitter modules in the module brackets as shown in Figure 12.

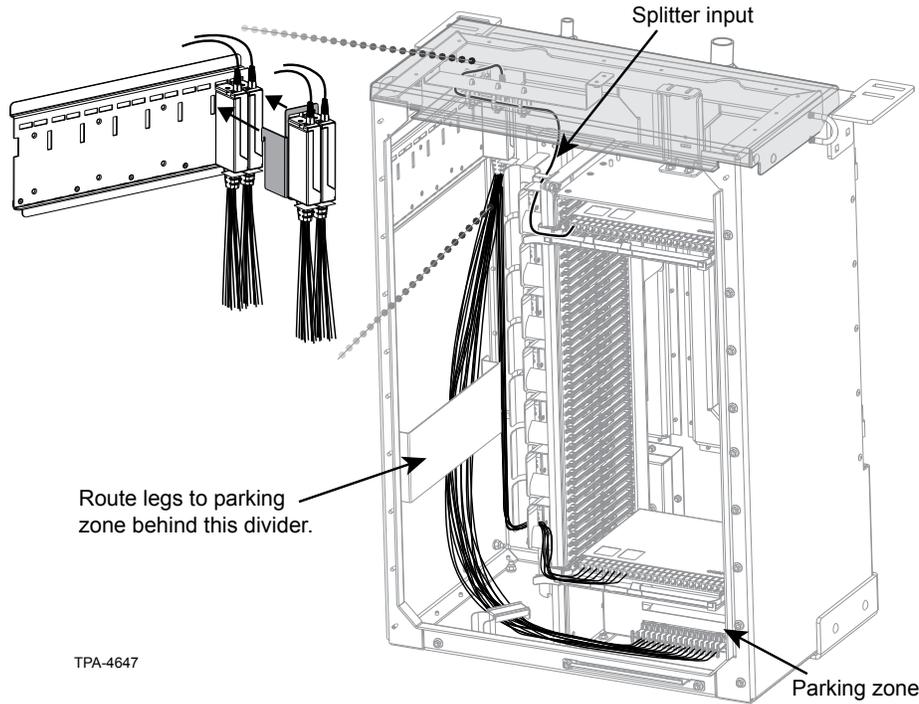


Figure 12

Step 2: Route feeder jumper through the routing clips at the top of the housing, then down around the routing guide to the input cassette.

Step 3: Route distribution legs from the splitter module to the distribution cassettes. Follow the splitter routing scheme (Figure 13) to store slack on the inter-bay unit (IBU) guides.

Step 4: If jumpers will not be used immediately, leave them in their storage clip. Route them to the parking zone as shown in Figure 12.

Step 5: Follow the instructions provided with the cassette to clean and mate the jumper to the adapters in the cassettes.

8. Completing Installation

Step 1: Close the main panel, then the outer door.

Step 2: Lock the door with the 216B tool or 7/16-in nut driver.

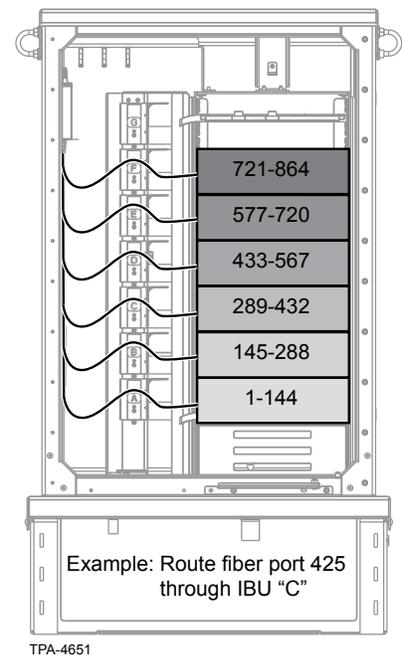


Figure 13

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