

Wall Mount Optical Fiber Combination Enclosure

General

Wall Mount Optical Fiber Combination Enclosure is used to terminate 32 fibers or splice 24 fibers. The enclosure connects various types of voice and data communications devices, switching equipment, and information management systems inside the building as well as to outside communications networks.

Ordering information is listed below:

Material ID	Part No.	Description
9700067/00	WBE-FXC-024	Wall mount building entrance for terminations and splices



WBE-FXC-024 Wall Mount Building Entrance

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.

Tools Required

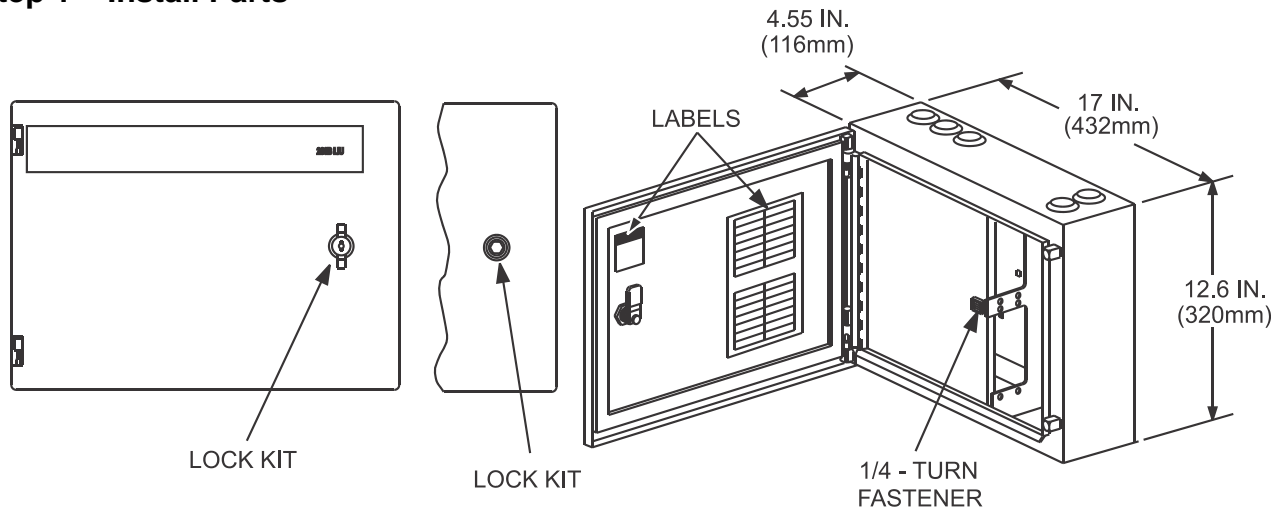
- Adjustable wrench
- Flat blade screwdriver

Parts List

Verify parts against the parts list below:

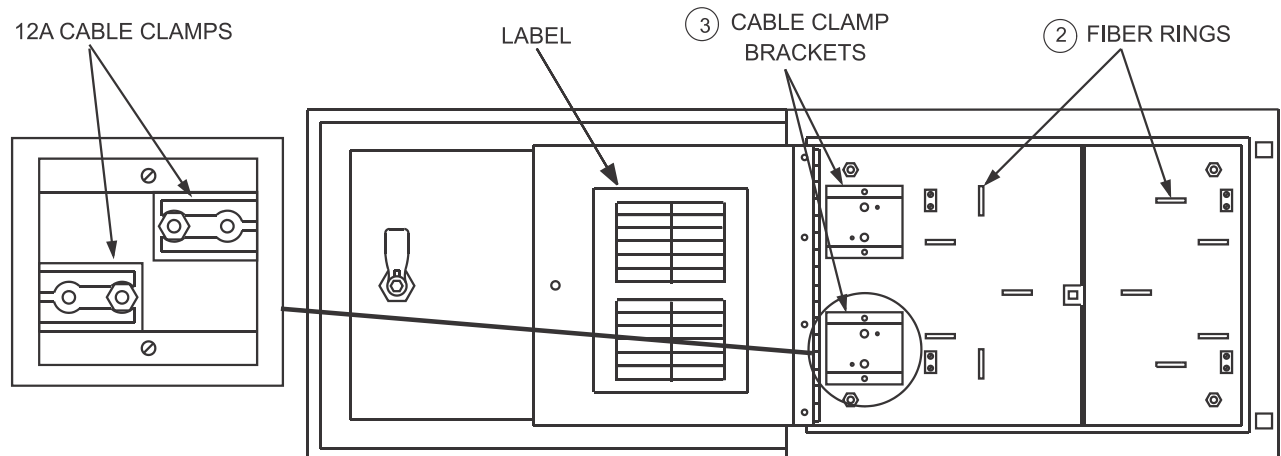
Quantity	Description
2	D-182655 Kit of Parts [Two ¾-inch (19 mm) NPT] Mounting Feet Lock Kit
2	Cable Clamp Brackets
4	Cable Support Brackets
10	Fiber Rings

Step 1 – Install Parts

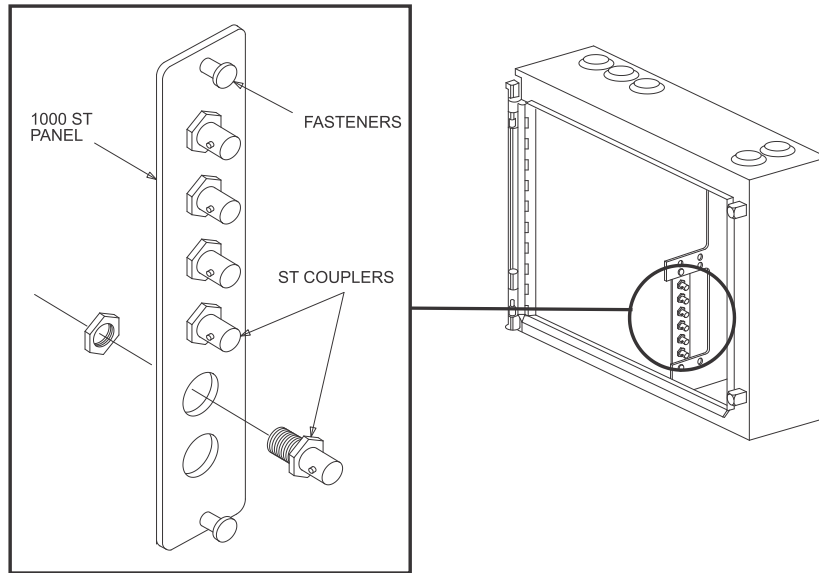


Note: Two designation labels and a notice label are provided with the WBE-FXC-024 Wall Mount Optical Fiber Combination Enclosure

1. Open the front cover and install the notice label and a designation label on the inside of the front cover.
2. Open the inside cover by 1/4 turning the fastener on the inside cover and install the second designation label. Install the plastic fiber rings into the positions shown below, making sure the openings are to the outside.

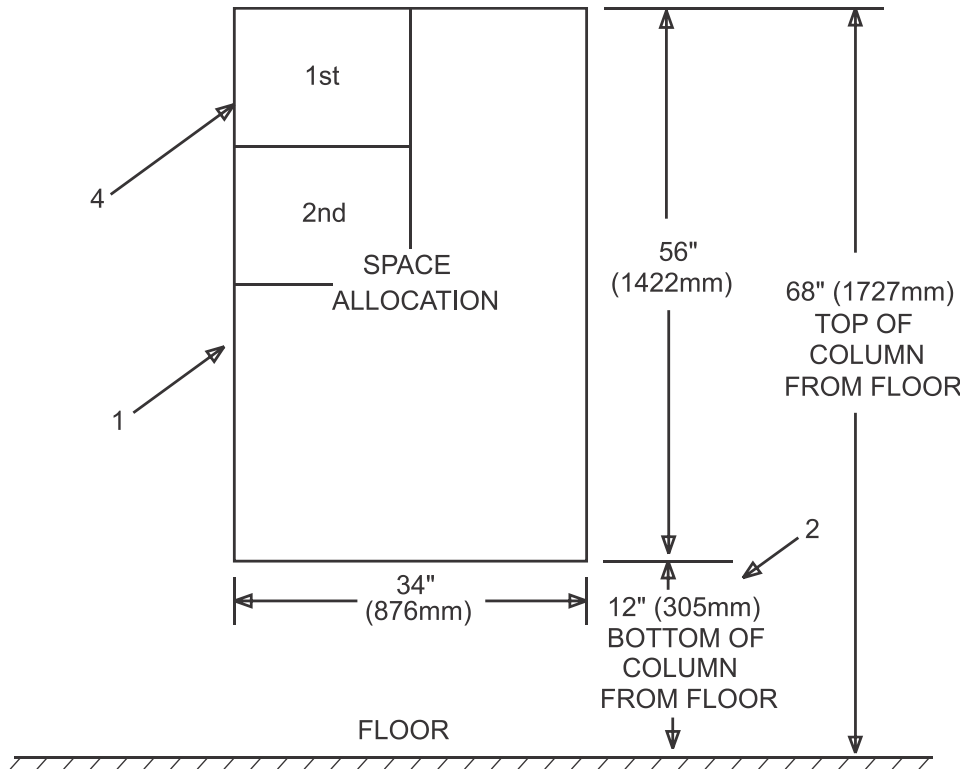


3. Remove two cable clamp brackets from the enclosure and install two cable clamps to each bracket. (Cable clamps are ordered separately and must be installed in pairs per clamp instructions.)
4. Install the cable clamp brackets/cable clamps back into the unit.
5. Install couplings in the coupling panels. (Couplings and panels must be ordered separately.)



6. Place individual identification decals on the coupling panels and write the identification number of each coupler on the decals.
7. Install the panels in the WBE-FCX-024 bulkhead unit.

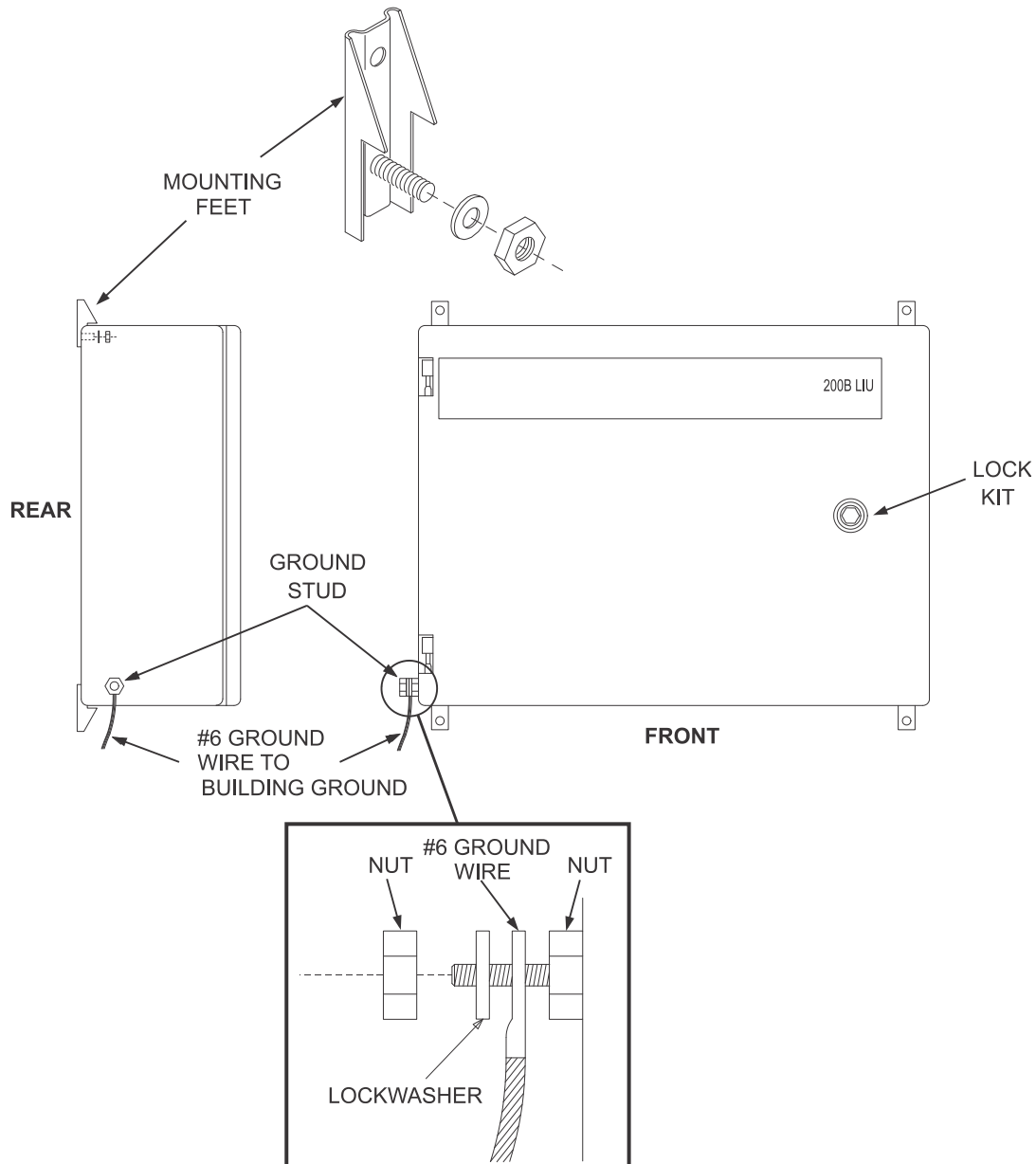
Step 2 – Reserve Space Allocation



1. Reserve space allocation in the mounting area to allow for future growth. The space allocation shown allows the WBE-FXC-024 to be stacked four modules high and two columns wide with the top of the uppermost enclosure not more than 68 inches (1727mm) above the floor.
2. To mount the enclosure directly to the wall, attach the mounting feet as shown. Make the proper hole measurements on the wall before drilling. The bottommost enclosure should be at least 12 inches (305mm) above the floor. Anchor the unit to the wall using proper hardware as per local procedures.
3. An alternate method of mounting directly to the wall is to take the four seal washers (Mounting Feet kit) and four #16 by 1-1/2 inches (38mm) wood screws and anchor to the wall using the holes in the back of the unit.
4. Mount the first enclosure in the upper-left portion of the reserved space.

Step 3 –Assembly and Installation

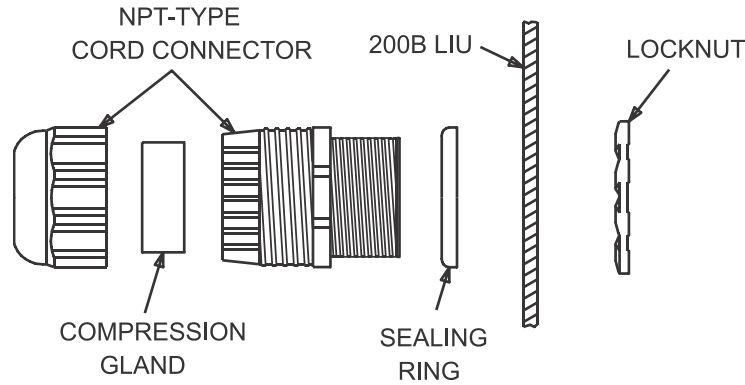
1. Mounting feet are installed as shown in the following figure. Open the front and inside covers. The studs of the mounting feet are positioned in the holes provided in the four corners of the enclosure. The provided washers and nuts are used to seal and secure mounting feet.
2. The lock kit, which is provided, may be installed at this time. Instructions are provided with the lock kit.
3. Ground the enclosure to the main building ground. Run a #6 ground wire [6 gauge (4mm)] from the provided weld stud located on the lower left side of the enclosure to the main building ground. An identical ground stud is provided inside the WBE-FXC-024 for grounding metallic sheath cable to the unit.
4. Close inside cover and 1/4 turn plastic tab to secure. Close front cover and secure. Installation is complete. For mounting to a 19-inch (483mm) or 23-inch (584mm) frame, go to STEP 9.



Step 4 –Cable Installation

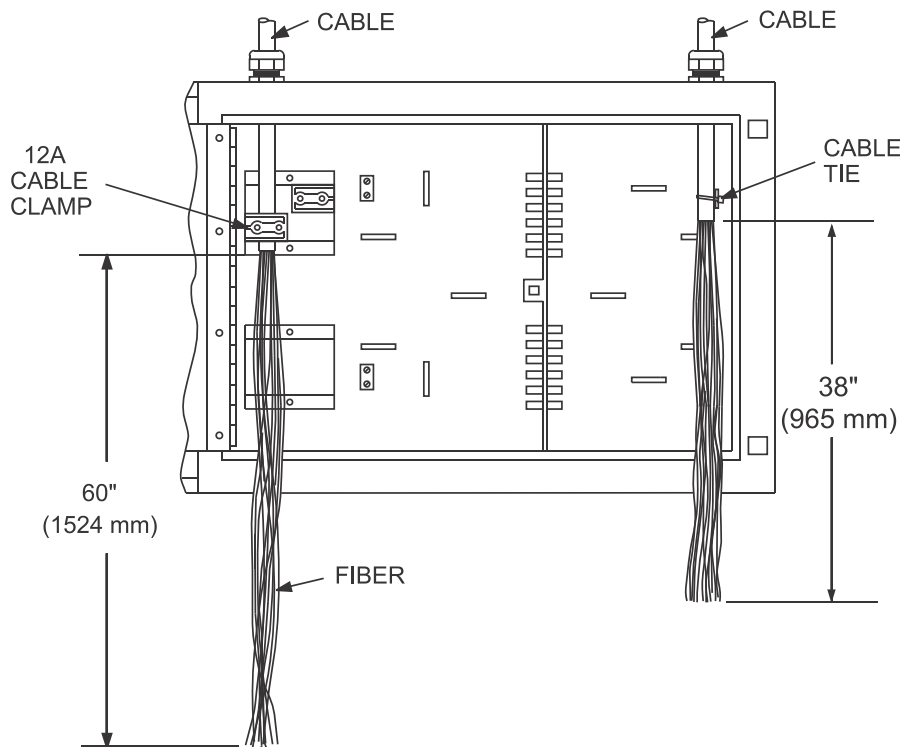
Cables may enter/exit through the provided holes on the top or bottom of the enclosure. There are also openings on that may be used for routing fibers to other units. It is suggested that Outside Plant Cables (OSP) be brought in on the left side while Distribution Cables are brought in on the right side. Whether cables are routed from the top or bottom, the cable clamps should be installed in the first unit that the cable enters. Cables can then be clamped inside individual enclosures. If cables are to be routed from the first enclosure to consecutive enclosures, the proper hole plugs between each unit must be removed.

1. Select the entry/exit port on the left side of the enclosure and remove the plastic hole plug.
2. Install the sealing ring onto the base of the cord connector.
3. Install the cord connector with the sealing ring onto the enclosure securing it with the locknut as shown.



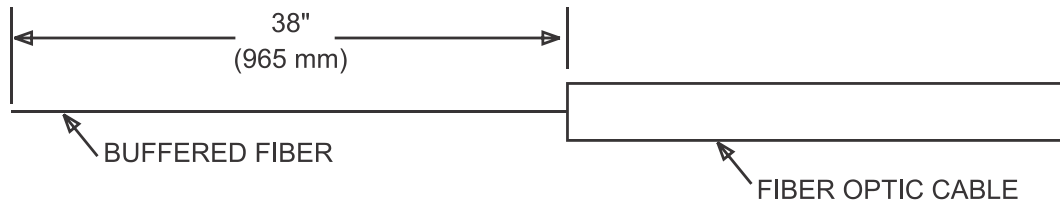
D-182655 Kit of Parts

4. Select the proper size compression gland for the incoming Outside Plant cable. Route the cable through the top of the cord connector and the compression gland. Measure 60 inches (1524mm) from the end of the cable back to the 12A cable clamp. Prepare the cable as shown in Cable Clamp Instructions, 860063510.



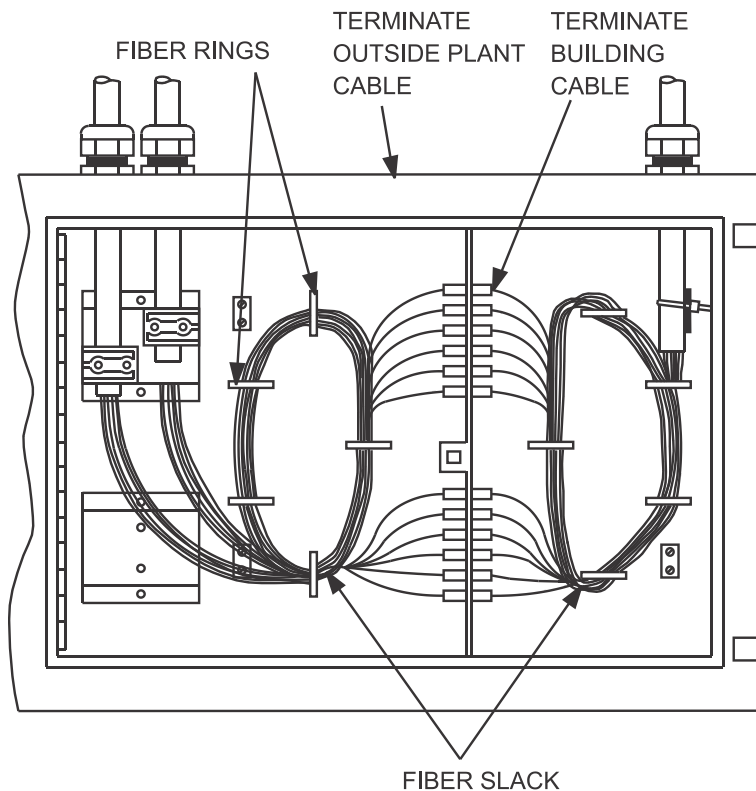
5. Tighten the top nut of the cord connector to secure the cable in the enclosure.
6. If the cable has a metallic sheath, ground the cable to the enclosure per 860063510.
7. Complete fiber termination by routing the fibers through the protective tubing and installing ST or Biconic connectors on the individual fibers. See 860063510 for cable preparation information, 700074628 for Biconic connector installation information.
8. Repeat this procedure for all cables routed into the enclosure.

Step 5 – Prepare Fiber Optic Cable



1. Prepare the fiber optic cable as shown.
2. Install the appropriate connectors on the buffered fibers for the type of coupling panel and couplings to be used.

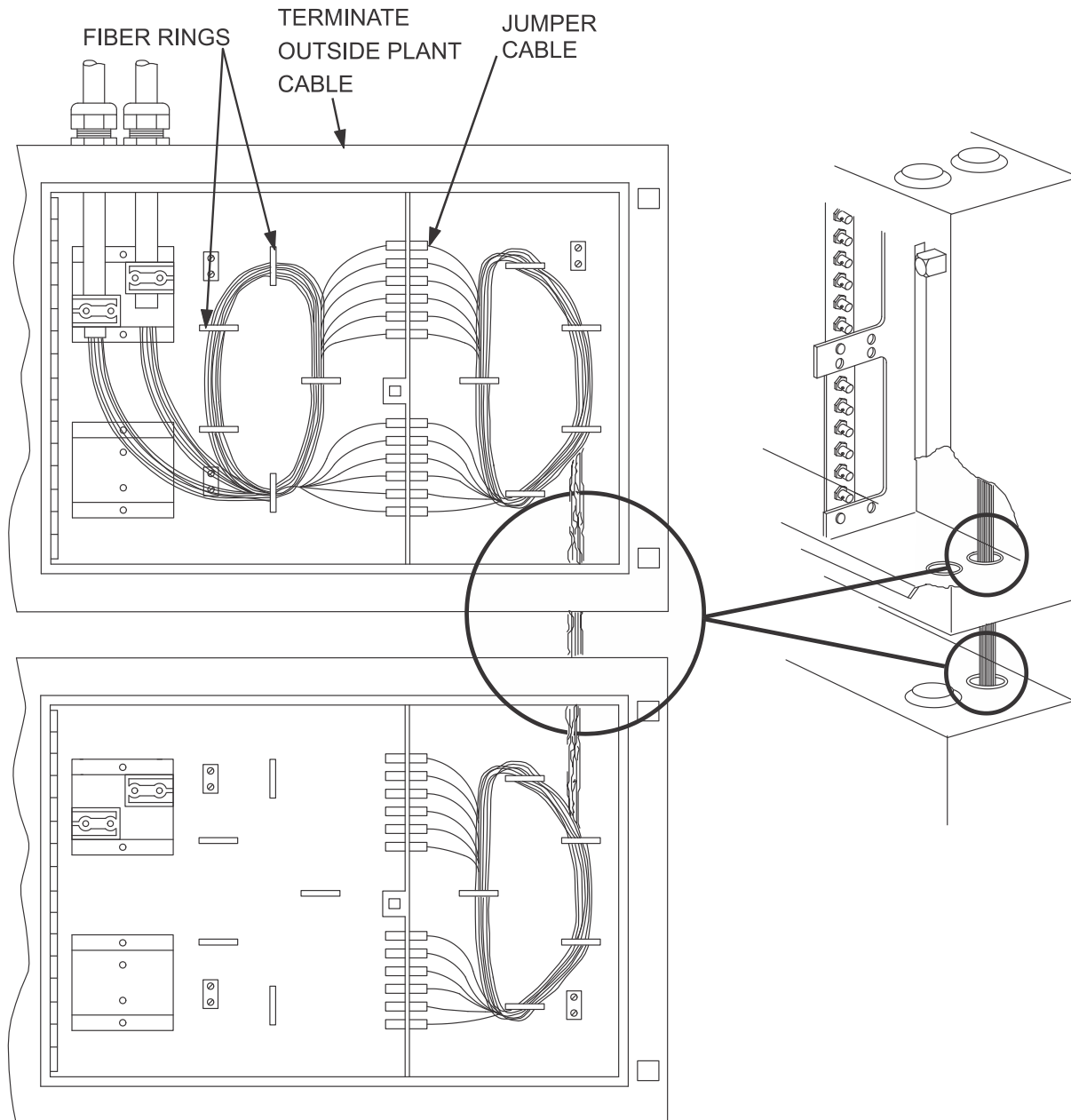
Step 6 – Fiber Termination and Slack Storage



After cable has been routed inside the enclosure and fiber connectors have been installed, the fibers may be terminated to the bulkhead unit.

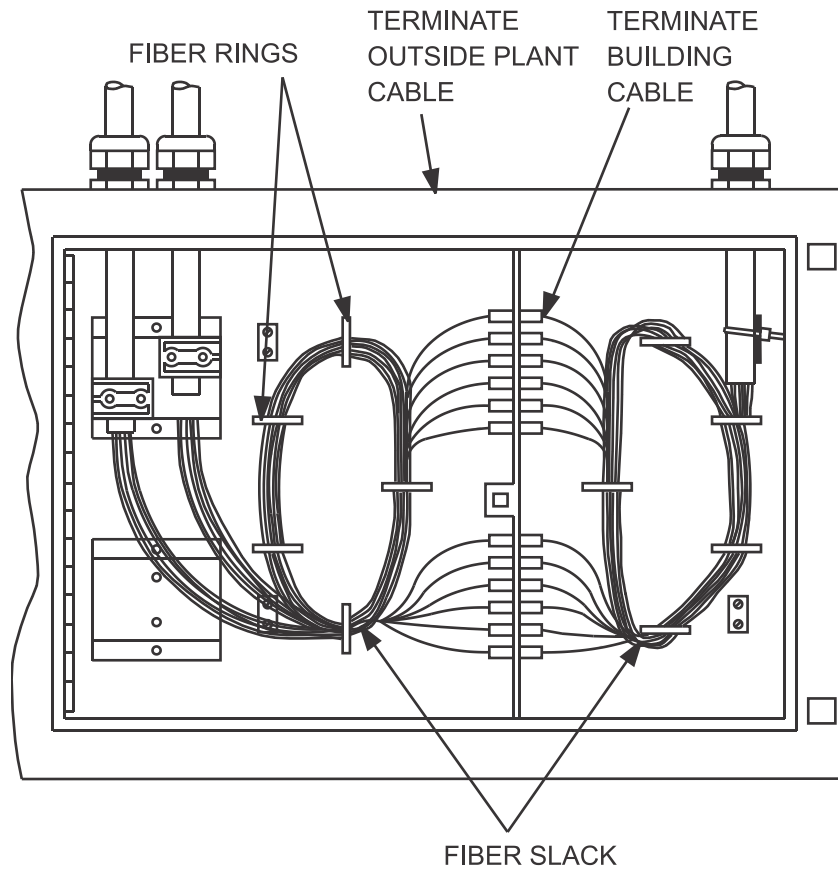
1. Terminate cable connectors to couplers on the bulkhead unit.
2. Starting from the connector end of the fibers, store fiber slack inside the fiber rings. Up to 24 fibers may be terminated on the enclosure bulkhead unit. Handling six fibers at a time will save time. Store fiber slack loosely inside the fiber rings.
3. Fiber termination in the enclosure is complete. Close inside cover and 1/4 turn plastic tab to secure.

Step 7 – Routing and Terminating Jumpers



The jumpers are located on the right side of the enclosure and can be routed to the next unit.

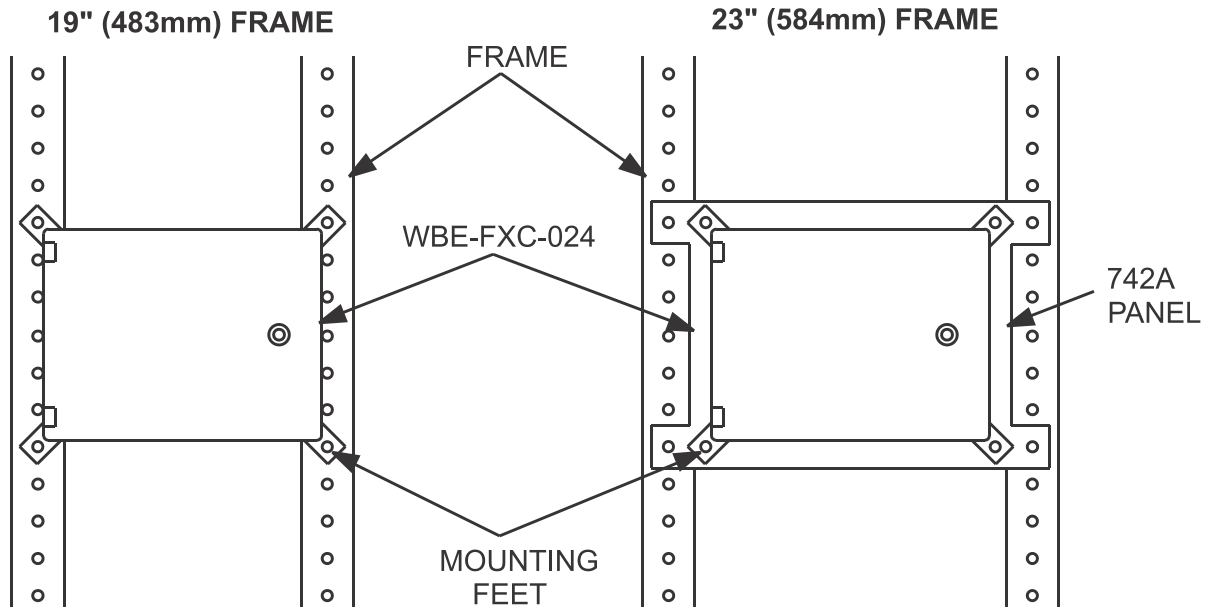
1. Terminate jumpers to couplers on bulkhead unit.
2. To route jumpers, select the entry/exit ports on the enclosure and remove the plastic hole plugs. Route jumpers through the holes to the next unit.
3. Terminate the jumpers in the proper unit.
4. Store slack jumper fiber in the fiber rings inside the two enclosures.
5. Close and secure the covers.

Step 8 – Interconnection Application

The enclosure will accommodate interconnection of Outside Plant cables on the right side of the unit.

1. Select the entry/exit port on the enclosure and remove the plastic hole plug.
2. Install the sealing ring onto the base of the cord connector.
3. Install the cord connector with the sealing ring onto the enclosure, securing it with the locknut.
4. Select the proper size compression gland for the incoming building cable. Route the cable through the top of the cord connector and the compression gland. Tie wrap the cable to the cable support bracket inside the enclosure. Leave 40 inches (1016mm) of cable for use inside the unit.
5. Remove 38 inches (965mm) of jacket from the building cable. See 860063510 for cable preparation information.
6. Tighten the top nut of the cord connector to secure the cable in the enclosure.
7. Install connectors on each fiber. See 700074628 for ST connector installation information.
8. Terminate the connectors to the couplers on the bulkhead unit.
9. Store slack fiber in the fiber rings.
10. Close and secure the front covers.

Step 9 –Frame Mounting



1. For a 19-inch (483mm) frame:
 - a. Attach the mounting feet to the enclosure in the same manner as described in STEP 3.
 - b. Anchor the enclosure to the frame using proper hardware as per local procedures.
2. For a 23-inch (584mm) frame:
 - a. Attach the mounting feet to the enclosure in the same manner as described in STEP 3.
 - b. Mount the enclosure to a 742A Panel (846158830) using the slots provided for a 19-inch (483mm) frame. Use proper hardware as per local procedures.
 - c. Anchor the 742A Panel to the frame using proper hardware as per local procedures.