Wall Mounted Building Entrance
Enclosure Instructions

General

The CommScope® wall mounted building entrance enclosures are designed to enable field and factory terminations, and field splicing in a single unit. Units can accommodate up to 96 ST® or SC, and 192 LC or keyed LC fiber terminations or 16, 32, and 64 MPO adapters. The enclosure also stores fiber splices and can accommodate 96 fusion splices or 72 mechanical splices with the appropriate splice holders. The overall dimensions are 11 inches high x 13 inches wide x 2.5, 4.3, or 6 inches deep (279mm high x 330mm wide x 64mm, 108mm, or 152mm deep). Dimensions for the 1P enclosure are 5.125 inches high x 6.10 inches wide x 1.7 inches deep (130mm high x 155mm wide x 43mm deep).

Ordering information is listed below:

<table>
<thead>
<tr>
<th>Material ID</th>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>760172288</td>
<td>WBE-EMT-BK/1P-PNL</td>
<td>1P enclosure, black, accepts ReadyPATCH® module and panel</td>
</tr>
<tr>
<td>760147496</td>
<td>WBE-EMT-BK/2P-PNL</td>
<td>2P enclosure, black, accepts ReadyPATCH modules and panels</td>
</tr>
<tr>
<td>760147520</td>
<td>WBE-EMT-WH/2P-PNL</td>
<td>2P enclosure, white, accepts ReadyPATCH modules and panels</td>
</tr>
<tr>
<td>760147504</td>
<td>WBE-EMT-BK/4P-PNL</td>
<td>4P enclosure, black, accepts ReadyPATCH modules and panels</td>
</tr>
<tr>
<td>760147538</td>
<td>WBE-EMT-WH/4P-PNL</td>
<td>4P enclosure, white, accepts ReadyPATCH modules and panels</td>
</tr>
<tr>
<td>760147512</td>
<td>WBE-EMT-BK/8P-PNL</td>
<td>8P enclosure, black, accepts ReadyPATCH modules and panels</td>
</tr>
<tr>
<td>760147546</td>
<td>WBE-EMT-WH/8P-PNL</td>
<td>8P enclosure, white, accepts ReadyPATCH modules and panels</td>
</tr>
<tr>
<td>760164616</td>
<td>WBE-EMT-BK/2P-MOD</td>
<td>2P enclosure, black, accepts InstaPATCH® 360 modules and panels</td>
</tr>
<tr>
<td>760164632</td>
<td>WBE-EMT-WH/2P-MOD</td>
<td>2P enclosure, white, accepts InstaPATCH 360 modules and panels</td>
</tr>
<tr>
<td>760060426</td>
<td>WBE-EMT-BK/4P-MOD</td>
<td>4P enclosure, black, accepts InstaPATCH 360 modules and panels</td>
</tr>
<tr>
<td>760164640</td>
<td>WBE-EMT-WH/4P-MOD</td>
<td>4P enclosure, white, accepts InstaPATCH 360 modules and panels</td>
</tr>
<tr>
<td>760164624</td>
<td>WBE-EMT-BK/8P-MOD</td>
<td>8P enclosure, black, accepts InstaPATCH 360 modules and panels</td>
</tr>
<tr>
<td>760164657</td>
<td>WBE-EMT-WH/8P-MOD</td>
<td>8P enclosure, white, accepts InstaPATCH 360 modules and panels</td>
</tr>
</tbody>
</table>
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 Authorized Business Partner.
  - Within the United States, report any missing/damaged parts or any other issues to CommScope Customer Claims at 1-866-539-2795. Outside the United States, contact your local account representative or Authorized Business Partner.

Tools Required

- Phillips-head screwdrivers
- Isopropyl alcohol, 91% pure or higher
- Lint-free wipes or tissues

Parts List

Verify parts against the parts list below:

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1U</td>
<td>Enclosure with bulkhead</td>
</tr>
<tr>
<td>2, 4, 8 U</td>
<td>Adhesive fiber management clips</td>
</tr>
<tr>
<td>1</td>
<td>Cable gland</td>
</tr>
<tr>
<td>1</td>
<td>Instruction sheet</td>
</tr>
</tbody>
</table>

Separately Orderable Items

The panel adapters, ganged adapters, and splice wallets (including splice trays) must be ordered separately. Build-out blocks, coupler, splicing materials, and equipment used with this enclosure are optional and must be ordered separately.

<table>
<thead>
<tr>
<th>Material ID</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Various</td>
<td>Adapter panels – numerous panels are available to accommodate ST, SC, and LC or keyed LC fiber connectors</td>
</tr>
<tr>
<td>Various</td>
<td>Splice wallet kit includes trays for either fusion or rotary mechanical splices and fiber drums</td>
</tr>
<tr>
<td>Various</td>
<td>InstaPATCH® 360 MPO modules and panels</td>
</tr>
<tr>
<td>Various</td>
<td>ReadyPATCH® MPO modules and panels – numerous modules are available to accommodate ST, SC, and LC or keyed LC fiber connectors</td>
</tr>
<tr>
<td>Various</td>
<td>Ganged adapters-numerous ganged adapters are available to accommodate ST, SC, and LC or keyed LC fiber connectors</td>
</tr>
<tr>
<td>760027516</td>
<td>RoloSplice (unpopulated)</td>
</tr>
<tr>
<td>760031849</td>
<td>RoloSplice with mechanical trays, (4 trays)</td>
</tr>
<tr>
<td>760031856</td>
<td>RoloSplice with fusion trays, (4 trays)</td>
</tr>
<tr>
<td>760031864</td>
<td>RoloSplice with mass fusion trays, (4 trays)</td>
</tr>
<tr>
<td>760039859</td>
<td>RoloSplice with mechanical trays, (2 trays)</td>
</tr>
<tr>
<td>760039867</td>
<td>RoloSplice with fusion trays, (2 trays)</td>
</tr>
</tbody>
</table>

Note: Contact your local account representative for ordering information.
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 while installing this device is recommended. Although standard safety glasses offer no protection from potential optical radiation, they offer protection from accidental airborne objects and cleaning solvents.

Step 1a – Configure and Install ReadyPATCH® MPO Modules or Panel Adapters in Bulkhead

MPO Module in ALPHA Configuration

*Note:* MPO modules must be configured as shown for proper polarity. Identical modules are used at both ends of trunk cable, but module orientation is inverted from end to end. Module 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.
Step 1b – Configure and Install InstaPATCH® 360 Modules

1. Orient modules in the “ALPHA” or “BETA” configuration as shown above before installation.

2. Select the adapter panels or ganged adapters for the appropriate fiber connectors being terminated.

   Note: MPO modules, ganged adapters, and adapter panels are ordered separately from enclosure.

3. Verify orientation of ganged adapters prior to mounting adapters in bulkhead.

3. Starting at bottom-left position, insert each MPO module or adapter panel into bulkhead and secure using either the captive rivets on Readypatch modules/panels or the built-in tabs on InstaPATCH modules/panels.
Step 2 – Assemble and Configure Enclosure

Install Fiber Management Clips (For Splicing and Pigtail Patching Applications)

Note: Fiber management clips are not required if ReadyPATCH or InstaPATCH MPO modules are being used.

1. If fiber management clips are not assembled, then put together the two components to make four clips. Expose adhesive pad on each fiber management clip and affix on rear of enclosure in building entrance side as shown above.

Install Optional Splice Wallet

Note: If configuration uses splicing, insert the optional splice wallet as instructed below.

1. Using a lint-free wipe and isopropyl alcohol, clean and degrease area on rear wall where splice wallet will be mounted between fiber management clips as shown above.
3. Secure splice trays using adhesive pads provided on leaves of splice wallet. Clean back of splice trays with a clean wipe and isopropyl alcohol. In order to function properly, all splice wallet leaves must be populated with splice trays, whether or not they are to be used.

Note: Splice trays may be populated with splices before trays are mounted into splice wallet.
Install Cable Gland Fitting(s)

1. Remove plugs from openings to be used for cable entry.
2. Install fiber cable gland fittings in openings on building entrance side of enclosure as needed to accommodate cables entering enclosure. See figure on the right. Openings are provided on the top and bottom of enclosure. One cable gland is provided, additional glands must be obtained locally.

   **Note:** For any openings not used for cable entrance, leave the blank plugs provided with the enclosure to prevent dust from entering unit.

Step 3 – Mount Enclosure on Wall

Mounting 2, 4, and 8P Enclosures
Mounting 1P Enclosures

1. Use four No. 10 wood screws (not provided) to mount enclosure to a wall surface such as plywood. When mounting enclosure to any other wall type, use appropriate mounting hardware. Mounting screws are not provided and must be obtained locally.

Step 4 – Route Fiber Cable(s) into Enclosure

1. Route fiber cable(s) into building entrance side of enclosure through cable gland(s).
2. Remove outer jacket from fiber cable leaving approximately 48 inches (2.1m) of fibers to dress into enclosure.
3. Anchor fiber cables to wall as required and tighten cable gland fitting(s) around cables to secure them.
   **Note:** Outer jacket of fiber cable should extend through cable gland before tightening to prevent damage to fibers.
4. Slots are provided in side of enclosure to loosely anchor fibers using cable ties or hook-and-loop straps, if desired. Cable ties or straps are not provided.
Step 5a – Fiber Routing and Patching Using MPO Modules

1. Route ReadyPATCH cables along side of enclosure and loosely secure cables to enclosure using hook-and-loop straps in the slots provided.

   **Note:** Do not tighten hook-and-loop strap on fiber cable or damage to cable will result.

2. Connect ReadyPATCH cables to rear of modules and store slack cable in enclosure in no less than 3” (76mm) loops.

Step 5b – Fiber Routing and Termination Using Pigtails (with or without Splicing)

1. Place fiber identification label on inside of door on this side (see Step 6)

2. Dress slack fibers in counter-clockwise direction in no less than 3” (76mm) loops

3. Connect pigtails to fiber endpoints.

   **Note:** If splicing is required, follow the instructions for Fiber Routing with Splicing.
1. Terminate a fiber pigtail into adapter, color keying as required. Repeat for all remaining fibers. Bundle all pigtails together with cable tie or hook-and-loop strap at approximately 12-inch (305mm) increments.

2. Perform splicing operations per local practices and store splices in splice trays.

**Note:** The splice wallet with splice trays is ordered separately from the enclosure. Splicing instructions are not covered in this document.

3. Spool fibers into fiber management clips as shown.

4. Secure fibers at side of enclosure using cable ties in slots provided, if desired.
Step 5c – Fiber Routing and Termination Using RoloSplice

1. Terminate a fiber pigtail into adapter, color keying as required. Repeat for all remaining positions. Bundle all pigtailed fibers together with a suitable device that will not damage fibers (i.e. twist-tie or hook-and-loop strip) at approximately 12-inch (305mm) increments.

2. Perform splicing operations and secure splices into splice trays.

3. Spool fiber bundle into fiber management clips as shown.

4. Secure trunk cable using cable ties in slots provided, if desired.

Step 6 – Install Fiber Identification Label

1. Microsoft® Excel label templates are available on the CommScope website. To print a label, go to http://www.commscope.com/Resources/Labeling-Templates
   Select the appropriate panel, shelf, or wallmount template.

2. Label information can be entered into the template directly from a PC application and then printed, or entered manually after the label sheet is printed.
   Print a label sheet using Avery White Full Sheet Laser 5165 printer paper.

3. Remove backing and stick fiber identification label sheet on inside of door as shown above.

Step 7 – Close Doors and Lock Enclosure

1. Close doors and lock enclosure using locally supplied locks. Separate locking positions are provided so that each side of unit (building entrance side and patching side) can be locked independently.