

Figure 1

## 1. INTRODUCTION

Wall Mount Enclosures 1278323-1 and 1278323-2 (12-port) are used for housing and distribution of fiber optic cables for indoor application. The enclosure accepts two snap-in adapter plates, and each adapter plate holds up to six duplex coupling bushings. The enclosure is designed to be wall mounted. Read these instructions thoroughly before starting installation. See Figure 1.

### NOTE



*Dimensions in this instruction sheet are in millimeters [with inches in brackets]. Figures are not drawn to scale.*

Reasons for reissue of this instruction sheet are provided in Section 5, REVISION SUMMARY.

## 2. DESCRIPTION

The enclosure has a hinged door with a slide latch and knockout for installation of a cam lock.

### NOTE



*Cam Lock 559501-2 is available for use on these enclosures. Installation instructions are included with the cam lock.*

The enclosure features removable top grommet and bottom grommet for cable exit, a cable clamp bracket to secure the cable to the enclosure, and a lug for securing the central strength member. The grommets protect the cable from damage at the opening. Fiber routing within the enclosure is facilitated by wire saddles. The integral patch panel holds the adapter plates on the outside of the enclosure.

Four embossed key holes provide for mounting the enclosure. Mounting screws are included with the enclosure. Also included are two “danger” labels and two 12-line “fiber patch ports” labels.

## 3. INSTALLATION

### 3.1. Mounting and Opening the Enclosure

Refer to Figure 2, and proceed as follows:

1. Determine mounting location. Allow sufficient room above and below or at the left and right sides (depending on enclosure orientation) for cable exiting the enclosure and for opening the door.
2. Slide the enclosure door latch toward the door hinge, and swing the door open.
3. Mark the wall through the top of the slots in *only* the top two mounting key holes. Drill the necessary holes for the screws.

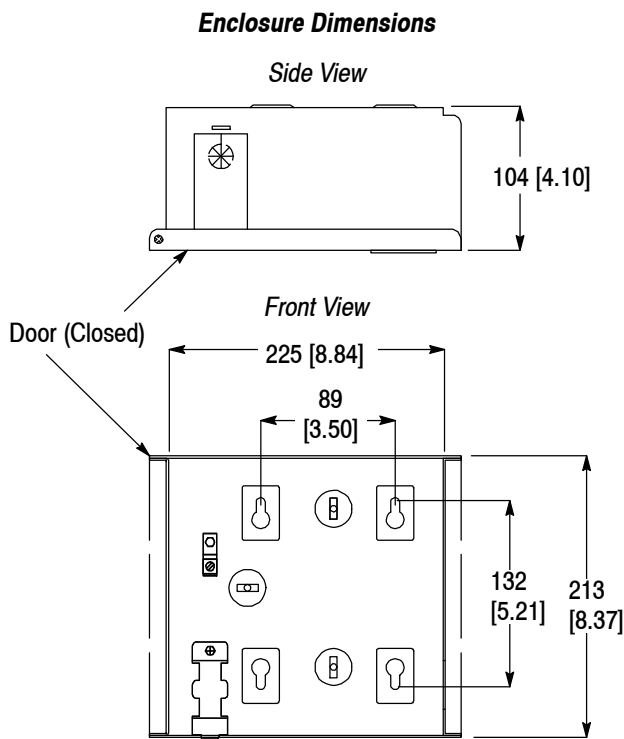


Figure 2

4. Insert the screws through the top two mounting key holes of the enclosure and into the wall. DO NOT tighten the screws at this time. Allow the enclosure to hang.
5. Mark the wall through the holes in the bottom two mounting key holes. Remove the enclosure from the wall, drill the necessary holes for the screws, and re-hang the enclosure onto the top two screws.
6. Insert screws through the holes in the bottom two mounting key holes of the enclosure and into the wall. Tighten the screws.
7. Make sure that the top two screws are in the slots in the mounting key holes, and tighten the screws.
8. Attach the “danger” label to the outside of the enclosure where it can readily be seen.

### 3.2. Installing the Adapter Plates

1. Position the adapter plate over the patch panel (opening in side of the enclosure) so that the split end of the lock pins align with the holes in the patch panel. See Figure 3.
2. Push the lock pins into the holes until the adapter plate is secure.
3. Follow same procedure for remaining adapter plate.

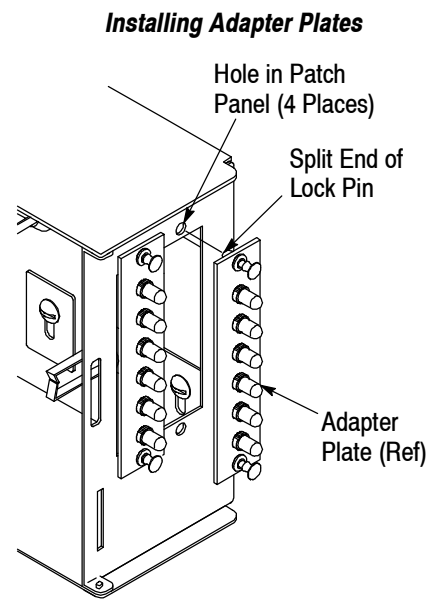


Figure 3

### 3.3. Preparing the Cable



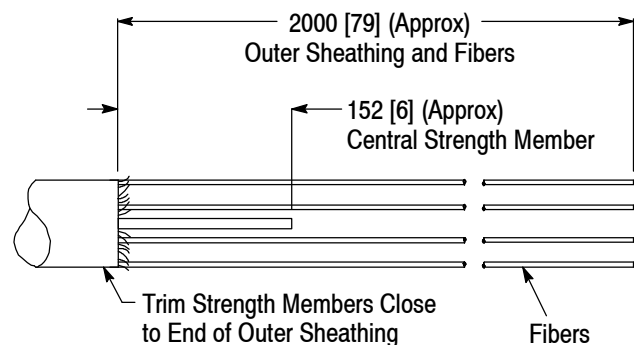
**ALWAYS** wear eye protection when working with optical fibers. NEVER look into the end of a terminated or unterminated fiber. Laser radiation is invisible but can damage eye tissue. NEVER eat, drink, or smoke when working with fibers. This could lead to ingestion of fiber particles.



**BE VERY CAREFUL** to dispose of fiber ends properly. The fibers create slivers that can easily puncture the skin and cause irritation.

Strip the outer sheathing and cut the central strength member of the breakout cable to the dimensions shown in Figure 4. Trim the strength members close to the end of the outer sheathing. Clean the fibers with an alcohol pad.

#### Breakout Cable Stripping and Cutting Dimensions



Note: Not to Scale

Figure 4

### 3.4. Routing and Terminating the Fiber

Use the following guidelines when installing and routing the cable in the enclosure. Whatever method is used, make sure that it not only meets the application needs, but also conforms to local codes and standards:

- Allow enough fiber in the enclosure for routing
- Keep fiber in groups of 6 or 12
- Coil excess fiber around wire saddles
- Keep bend radii of fiber as large as possible (always follow manufacturer’s minimum bend radius)



**DO NOT** exceed minimum bend radii for the cable or fiber. **ALWAYS** avoid placing fiber under tension or torsion.

The following instructions reflect a typical installation where cable is routed through only one end of the enclosure; however, cable can be routed through both ends of the enclosure. Follow the same procedure for the other end.

1. Insert the fibers through the grommet (top or bottom). Make sure that 63.5 to 76 [2.5 to 3] of the cable is inside the enclosure.
2. Lay the cable over the cable clamp bracket, and secure the cable to the cable clamp bracket using cable ties. See Figure 5.
3. Loosen the mounting screw in the lug, and pivot the lug so that the opening faces the cable. Tighten the mounting screw. Loosen the setscrew, and insert the central strength member into the lug so that the central strength member butts against the terminal. Tighten the setscrew firmly. See Figure 5.
4. Dress the fiber through the wire saddles, and terminate the fibers to connectors according to the instructions supplied with the connectors. See Figure 6.
5. Join the connectors to the coupling bushings starting at either end of the adapter plate. Make sure that each connection is secure. See Figure 6.
6. Record the connector positions using the ‘fiber patch port’ label. Attach the label to the inside of the enclosure door. See Figure 6.

### 3.5. Closing and Inspection

1. Inspect installation according to the following:
  - center strength member is fully inserted into lug and lug screw is tight
  - there are no sharp bends or kinks in the fibers

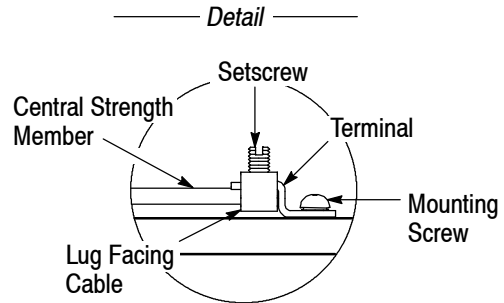
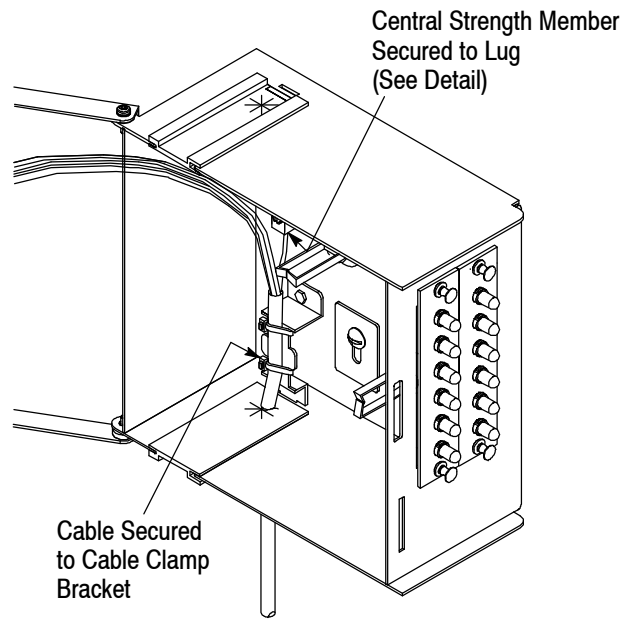


Figure 5

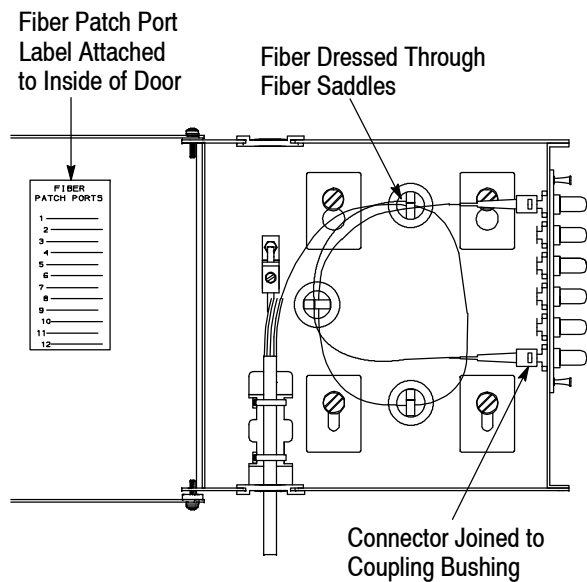


Figure 6

- there are no fibers under tension
  - all connectors are fully joined to coupling bushings
2. Close the enclosure door, and inspect closing according to the following:
- door is fully latched
  - no fibers are pinched in door

#### 4. REPLACEMENT

The enclosure is not repairable if damaged. Order additional enclosures through your representative, or call 1-800-526-5142, or send a facsimile of your purchase order to 717-986-7605, or write to:

CUSTOMER SERVICE (038-035)  
TYCO ELECTRONICS CORPORATION  
PO BOX 3608  
HARRISBURG PA 17105-3608

#### 5. REVISION SUMMARY

- Updated document to corporate requirements
- Revised document to match document part number revision