

Figure 1

## 1. INTRODUCTION

Patch Panel Drawer 1933443-1 is used for housing singlemode and multimode fiber optic connections. The drawer fits into a standard 483 mm [19 in.] Electronic Industries Alliance (EIA) rack or equipment cabinet. Read these instructions thoroughly before starting installation.

### NOTE



Dimensions in this instruction sheet are in millimeters [with inches in brackets]. Figures and illustrations are for reference only and are not drawn to scale.

To obtain information on AMP NETCONNECT products, call PRODUCT INFORMATION at the number at the bottom of this page, or visit the AMP NETCONNECT website at [www.ampnetconnect.com](http://www.ampnetconnect.com).

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

## 2. DESCRIPTION (Figure 1)

Each drawer consists of a cover and a tray. The cover features two mounting brackets (with four 6-32 screws and four washers). Included are four 12-24 and four 10-32 cross-recessed screws for mounting the drawer to the rack or equipment cabinet.

AMP NETCONNECT logo is a trademark of Tyco Electronics.

The tray features two push tabs, four housing openings, four cable tie-down bars, and a cable exit opening. The bars are used for securing up to 24 pre-terminated cable to the tray (three releasable wire ties are included for this use). When the tray is closed, the push tabs “click” onto the cover to secure the tray to the cover.

Also included is a cable management kit (containing eight network saddles and two spiders). The kit is used for facilitating cable routing within the tray.

The drawer accepts four 6-port front loadable interface housings or cassettes (available separately).

## 3. INSTALLATION

### 3.1. Open the Tray

Simultaneously push both push tabs slightly inward, and slide the tray open. To remove the tray from the cover, slide the tray open until it stops, then tilt the tray slightly up and out of the cover.

### 3.2. Mount the Enclosure

#### CAUTION



ALWAYS use safe lifting techniques. NEVER lift more than you can manage comfortably. Lifting guidelines are available from the Occupational Safety and Health Administration (OSHA).

1. Remove the tray from the cover, and set aside.

**Mounting the Enclosure**

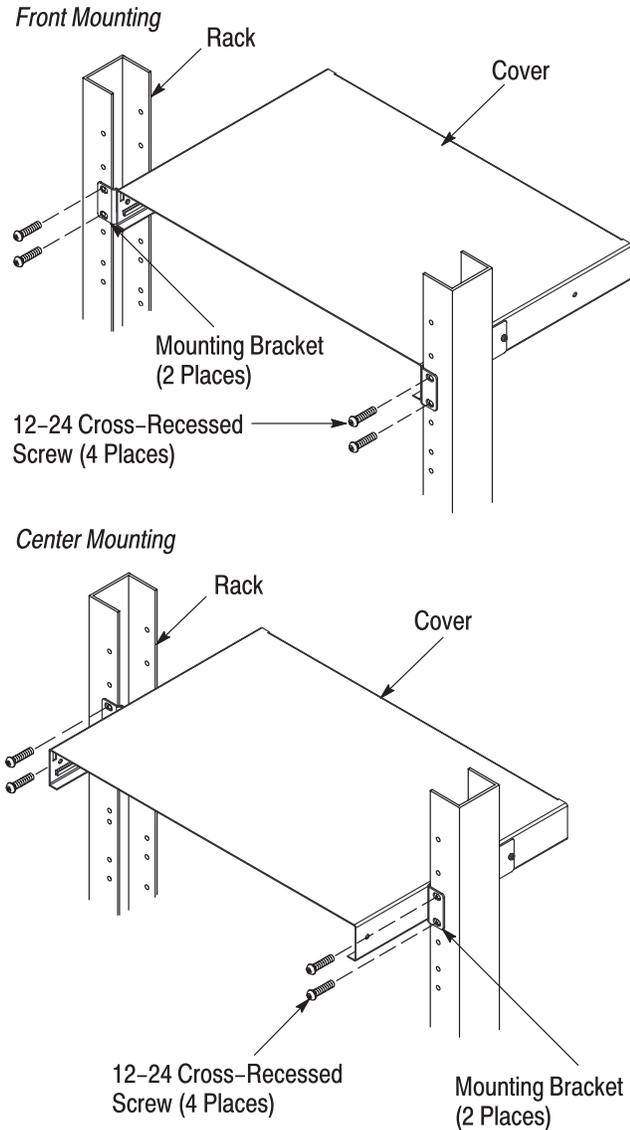


Figure 2

2. For front mounting, the mounting brackets are pre-assembled to the cover; align the holes in the mounting brackets with the holes in the rack, and using the cross-recessed screws, secure the cover to the rack. See Figure 2.

3. For center mounting, remove the mounting brackets from the cover; align the holes in the long leg of the mounting brackets with the holes toward the back of the cover, and re-assemble the brackets onto the cover. Align the holes in the mounting brackets with the holes in the rack, and using the cross-recessed screws, secure the cover to the rack. See Figure 2.

**3.3. Install the Cable Management Kit**

If applicable, refer to Figure 3, and install the cable management kit onto the tray according to the following:

1. Attach one network saddle to each arm of the spider.
2. Remove the backing from the self-adhesive tape on the spider. Firmly press the spider onto the inside of the tray, preferably in the center and at one side of the tray.
3. Repeat this procedure for the remaining spider, placing it preferably in the center and at the other side of the tray.

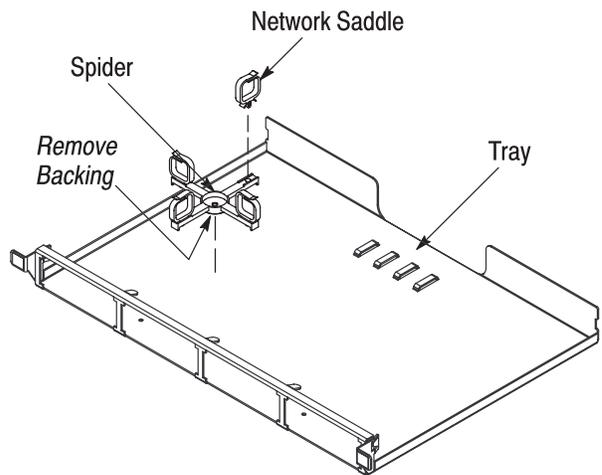


Figure 3

**3.4. Install or Remove Interface Housing**

**NOTE** Cassettes can also be installed into the drawers using the same procedure.



**DANGER** NEVER look into the end of a terminated or unterminated fiber. Laser radiation is invisible but can damage eye tissue.



1. If applicable, remove an interface housing by using a small flat blade screwdriver to release the interface housing snap-in latches; then pull the interface housing from the front of the tray.
2. If applicable, install an interface housing by aligning the back of the interface housing with an opening in the front of the tray; then slide the interface housing into the opening until the snap-in latches “click” into place. See Figure 4.
3. If applicable, “snap” the jack SL housings into the interface housings.

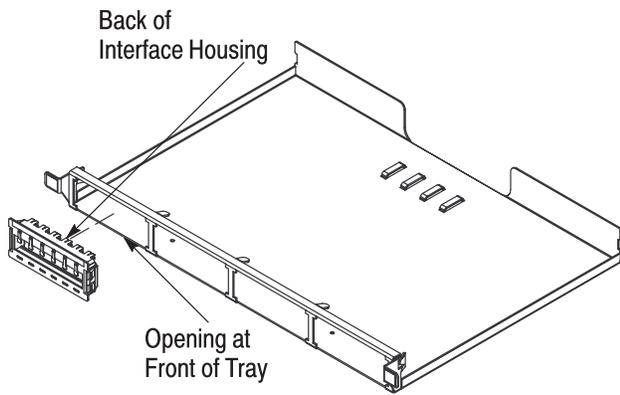


Figure 4

**3.5. Route the Cable**



**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.

Use the following guidelines when routing the fiber in the tray. 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 tray for routing
- Coil excess fiber within the tray or route through network 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 fiber. ALWAYS avoid placing fiber under tension or torsion.

1. Slide the tray into the cover, but leave the tray open.
2. Route the cable through the cable exit opening of the tray, and position the jacket over one of the cable tie-down bars. Using the cable ties, secure the cable to the bar. Follow this procedure for the remaining cable.
3. Separate the first group of fibers to be located on the first two interface housings (and/or cassettes).
4. Join the connectors to the jack SL housings (or coupling bushings) at the back of the interface housings (and/or cassettes). See Figure 5, Detail A.

5. Separate the next group of fibers to be located on the next two interface housings (and/or cassettes).

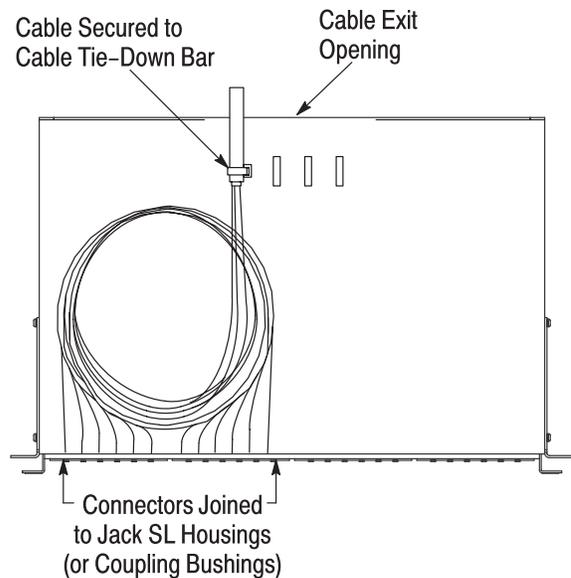
6. Join the connectors to the jack SL housings (or coupling bushings) at the back of the interface housings (and/or cassettes). See Figure 5, Detail B.

**3.6. Inspect and Close the Tray**

1. Attach a port identification label to the label plate of each interface housing (and/or cassettes) according to the connector positions. See Figure 6.
2. Inspect the installation to ensure that the cover is secured to rack (screws are tight)

**Routing the Fiber**

**Detail A**



**Detail B**

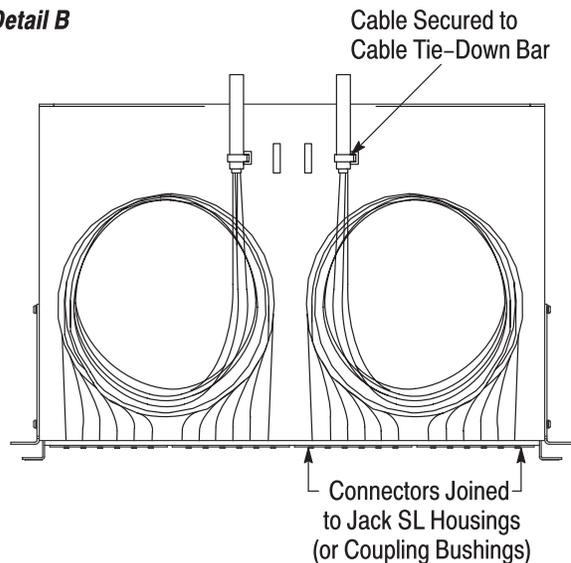


Figure 5

3. Slide the tray into the cover until the push tabs “click” onto the cover. Make sure that there are no fibers pinched between the cover and the tray. Refer to Figure 6.

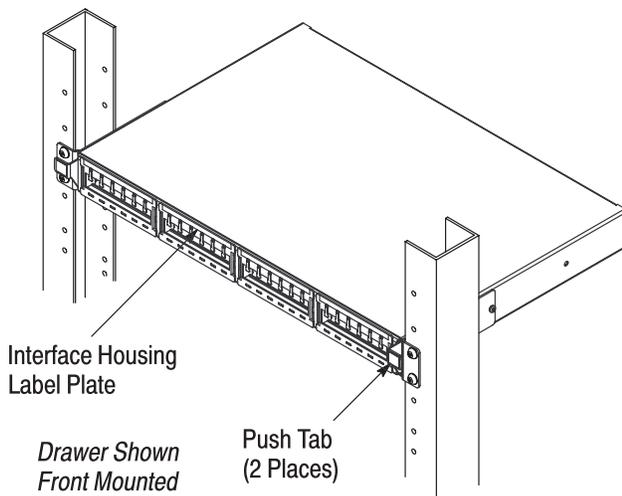


Figure 6

#### 4. REPLACEMENT AND REPAIR

DO NOT use any damaged or defective housings. DO NOT disassemble any of the housings.

The drawers, interface housings, and jack SL housings are not repairable if damaged. Order additional drawers, interface housings, or jack SL housings through your representative, or call 1-800-526-5142, or send a facsimile of your purchase order to 1-717-986-7605, or write to:

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

#### 5. REVISION SUMMARY

Revisions to this instruction sheet include:

- Updated document to corporate requirements
- Superseded drawer part number
- Modified Figure 1 and Section 2