BLACK BOX®
NETWORK SERVICES

Rackmount Fiber Shelf, 3-Adapter, 1U
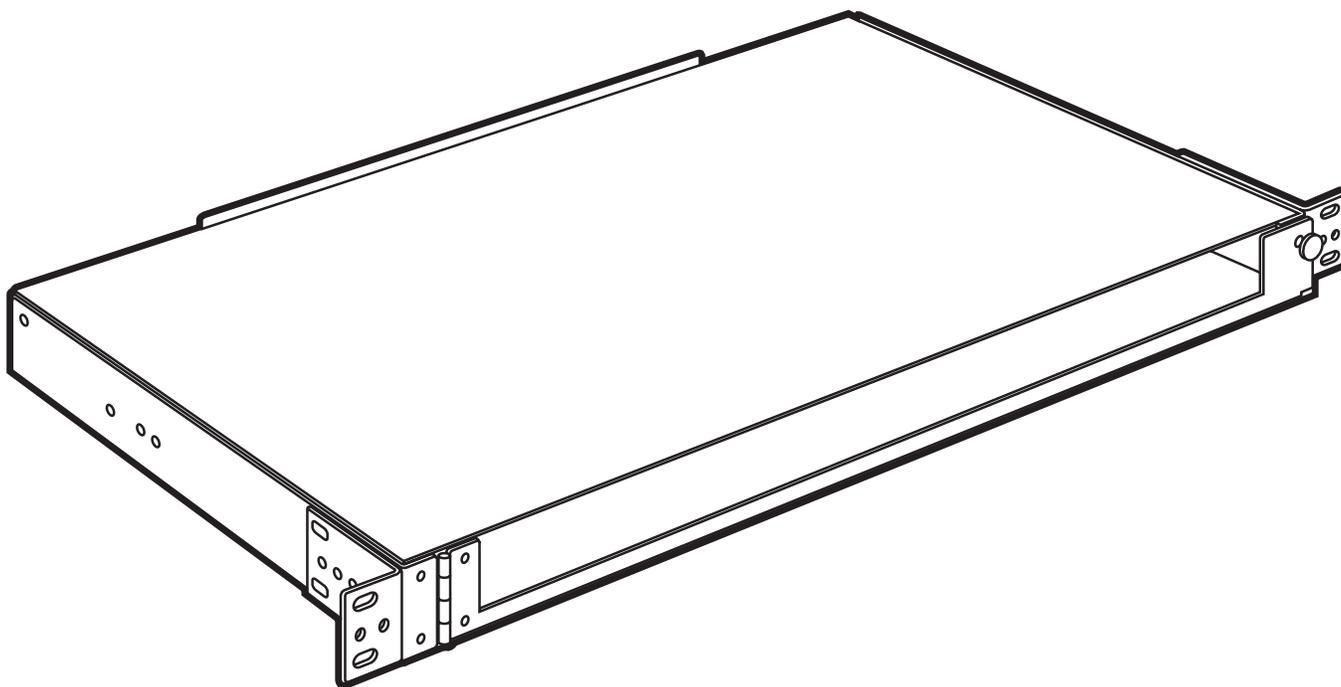
TRADEMARKS USED IN THIS MANUAL

Any trademarks mentioned in this manual are acknowledged to be the property of the trademark owners.

1. Specifications

Construction: 16 AWG cold-rolled steel

Capacity: Supports 3 fiber adapters; Fits in 19" or 23" racks

Size: 10.8"H x 16.8"W x 1.8"D (27.4 x 42.7 x 4.6 cm)

Weight: 10.3 lb. (4.7 kg)

2. Introduction

The Rackmount Fiber Shelf is 1U high and accepts three adapter panels. (Each adapter panel has 6 or 12 connectors, for a total of 18 to 36 ports.) It provides termination for optical cables on the premises or in a central office.

The shelf is constructed of 16 AWG steel housing and is compact and rugged enough for commercial applications. Its powder coating finish is corrosion resistant.

Since the shelf is only one rack unit (1U) high and has front access, testing, removing, adding, or replacing a modular adapter panel is easy. It's ideal for fiber installations where rack space is limited. The shelf has two openings in the back for cable access and a rear bar that supports cable ties.

A cable routing spool provides storage for excess length of cables.

Your package should include the following items. If anything is missing or damaged, please contact Black Box at 724-746-5500.

- (1) Rackmount Fiber Shelf, 18-Port, 1U

- (4) $^{10}\!/_{32}$ cup-head screws

- (4) $^{12}\!/_{24}$ cup-head screws

- (4) 4-inch (10.2-cm) cable ties

- (30) 3-inch (7.6-cm) cable ties

- (1) red "danger" sticker that warns you of laser hazard

- (6) 1" (2.5-cm) stick-on rectangular cable holders

- (1) pair of black spool rings for cable management

- This users' manual

3. Installation

DANGER

Do not view the fiber ends if the laser is illuminated. Eye damage may result. An unmated connector may emit invisible laser radiation. Visually test with white light only!

1. The shelf is shipped with two screws installed on the sides for the front rackmounting position. Either keep these in this position or move them to the middle or back positions to suit your application.

2. Using the included $\frac{19}{32}$ or $\frac{13}{24}$ cup-head screws, mount the shelf in a 19" or 23" rack.

3. Pull the button on the front right of the shelf to release the tray.

4. Install the fiber adapters in the three slots on the pull-out tray. See the illustration below.

NOTE

The shelf supports three 6- or 12-port fiber adapters. One or two splice trays (part number RM440A, not included) are optional. Two splice trays support a total of up to 36 fibers.

5. Route multipair distribution fiber cable through the opening in the back of the shelf.

6. Once you pull the cable through the opening in the shelf, use the cable ties and black spool rings to hold the cable in place inside the shelf.

7. Use the included 3" and 4" cable ties to secure the cable to the back plate.

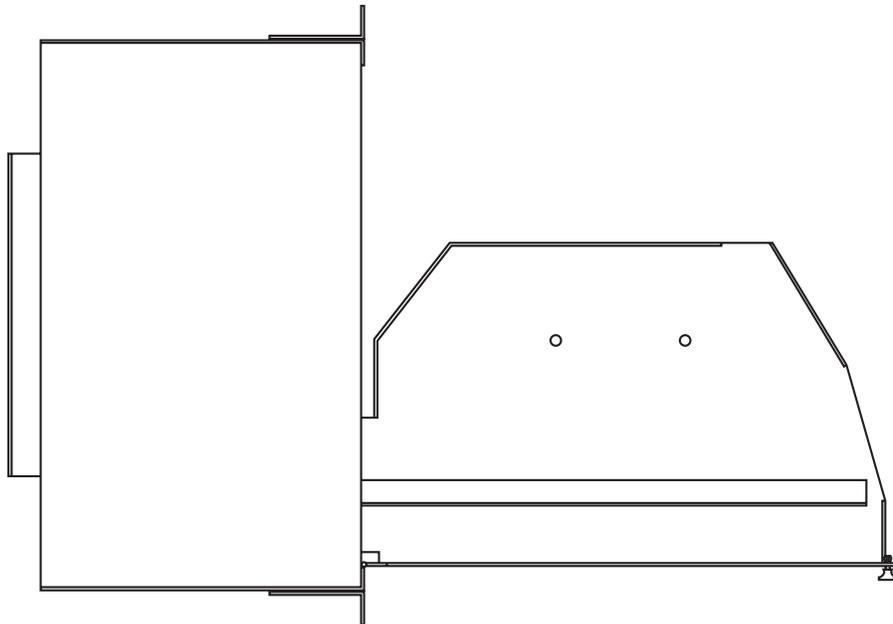8. Attach the "danger" sticker (see the DANGER note above) to the outside top of the shelf.

Figure 1. Rackmount Fiber Shelf with tray open.

9. Terminate the multi-pair fiber cable and connect to the fiber adapters. See Figure 2.
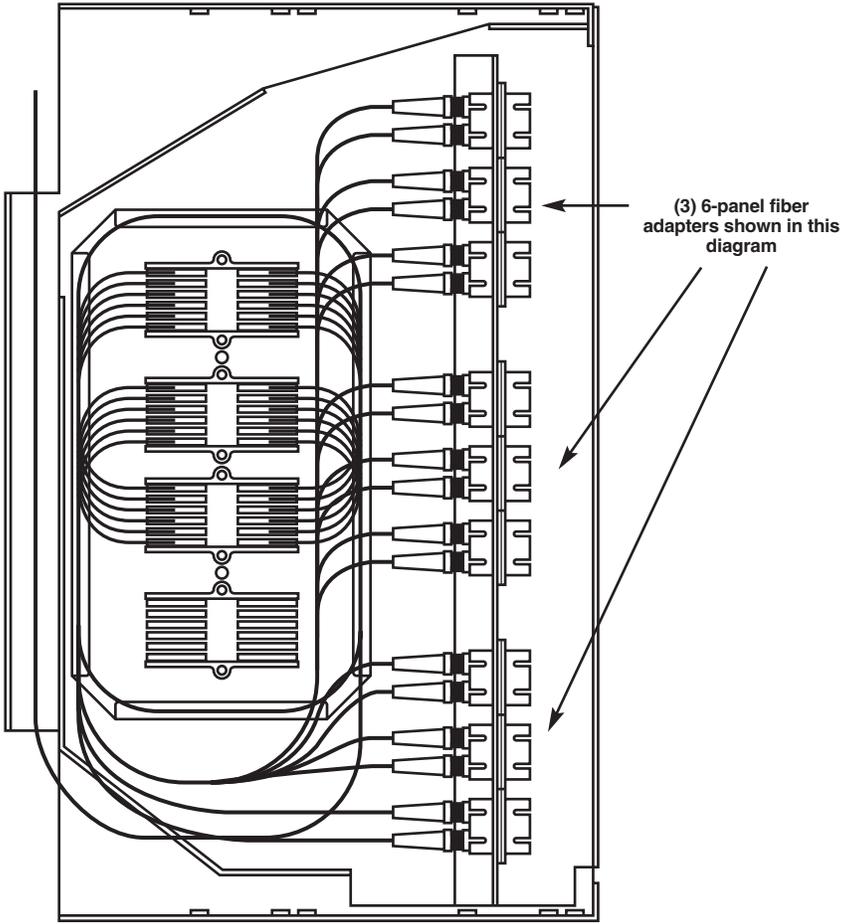
(3) 6-panel fiber adapters shown in this diagram

Figure 2. Wiring diagram.