

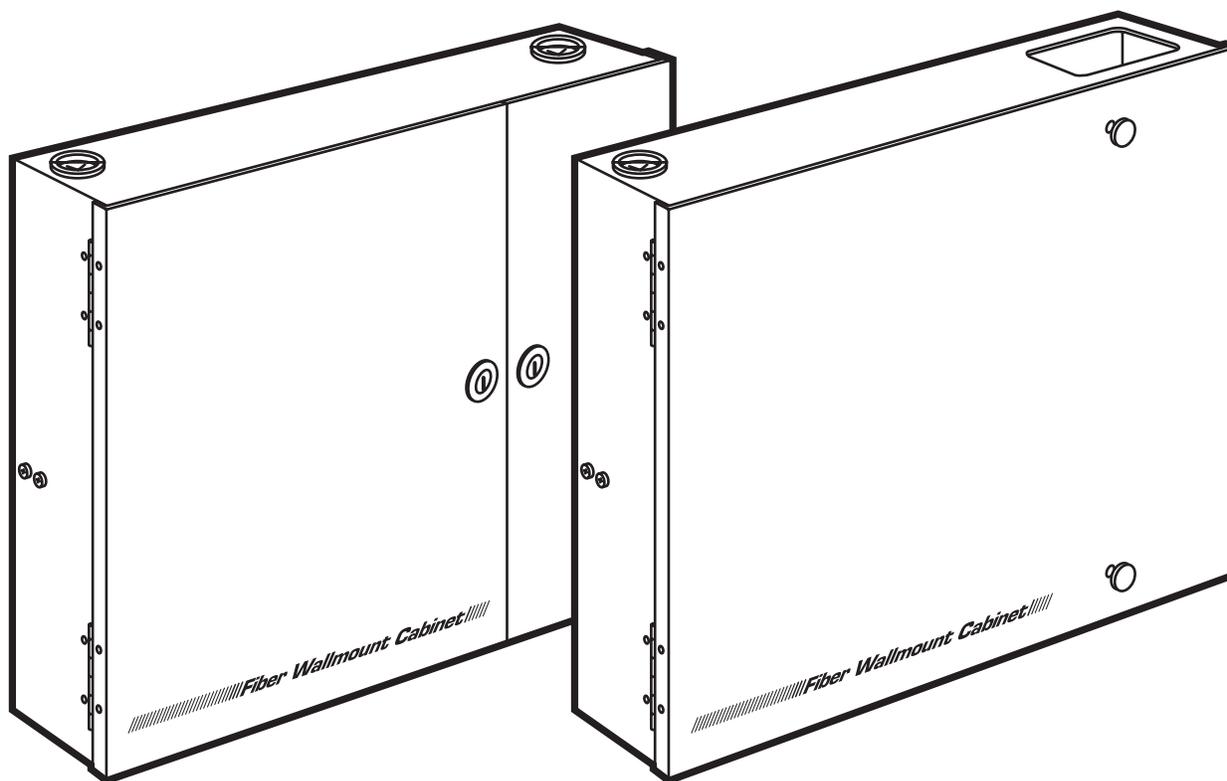


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1000 Park Drive • Lawrence, PA 15055-1018 • 724-746-5500 • Fax 724-746-0746



Fiber Wall Cabinet, Open or Lock Style, 4-Adapter Panel



**CUSTOMER
SUPPORT
INFORMATION**

Order **toll-free** in the U.S.: Call **877-877-BBOX** (outside U.S. call **724-746-5500**)
FREE technical support 24 hours a day, 7 days a week: Call **724-746-5500** or fax **724-746-0746**
Mailing address: **Black Box Corporation**, 1000 Park Drive, Lawrence, PA 15055-1018
Web site: www.blackbox.com • E-mail: info@blackbox.com

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1. Specifications

Number of Adapter Panels: 4

Size: 12"H x 14"W x 3.5"D (30.5 x 35.6 x 8.9 cm)

Weight: JPM401A-R2: 9.5 lb. (4.3 kg); JPM402A-R2: 10 lb. (4.5 kg)

2. Overview

2.1 Description

Fiber Wall Cabinets are used to link outdoor fiber optic cable to indoor fiber optic cable. In any fiberoptic application, you must link these two types of cable together. For example, if you are using multimode cable, you must link the outdoor cable to the indoor cable via mechanical splices and connectors installed in the cabinet. Or, if you are using single-mode cable, you must use the fusion method to link the outdoor to the indoor cable inside the cabinet via connectors.

The Fiber Wall Cabinet, Open (JPM401A-R2, see Figure 1) is ideal for non-secure fiber workgroups. The Fiber Wall Cabinet, Lock Style (JPM402A-R2, see Figure 2) is perfect for secure networks. The lock-style cabinet has two locking compartments, and the open cabinet has two compartments and one non-locking door. The compartments on both models are for a user side and a technician side. And both accept up to four standard or high-density adapter panels with connectors (part numbers JPM404A-R2–JPM405A-R2, JPM408A-R2–JPM412A-R2, JPM415A-R2–JPM416A-R2, and JPM420A–JPM421A). Install the adapter panels on the compartment plate of the cabinet.

These compact cabinets are used to terminate up to 48 fibers, and they easily mount on a wall. The cabinet's user side is designed for smooth and easy access for patch cords. The cabinet's rugged metallic housing is made of heavy gauge steel with baked powder coating finish. As shown in Figures 1 and 2, the cabinet accommodates outside plant cable entry in the technician's compartment from top left or bottom left. And it's sealed with thin membrane rubber grommets for cable entrance holes to keep out insects and prevent dust from settling inside.

The technician's compartment can accommodate two splice modules (part number JPM440A) stacked atop the other with the capability for 48 splices. Each splice module accepts 24 fibers with a minimum bending radius of 1.5" (3.8 cm) to avoid fiber breaks.

2.2 What's Included

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

- (1) Fiber Wall Cabinet, Open or Lock Style, 4-Adapter Panel
- (1) warning label
- (6) 1" (2.5-cm) stick-on rectangular cable holders
- (4) #9-18 x 1.25" screws
- (30) 3" (7.6-cm) cable ties
- (4) 4" (10.2-cm) cable ties
- (1) cable management sticker
- (8) port ID stickers
- (2) keys (lock-style cabinet only)
- (2) semicircular cable holding rings
- This users' manual

3. Installation

3.1 Installing the Cabinet and Cable

1. Open the cabinet's doors (see Figures 1 and 2 for the cabinets' inside view) and use a screwdriver to attach the cabinet to a wall with the four included #9-18 x 1.25" screws. Or, use your own hardware to mount the cabinet on a block wall.
2. Install the outside plant cable from the cabinet's top left or bottom left.
3. Place the 4" (10.2-cm) cable ties inside the compartment to hold the cable with a minimum fiber routing radius of 1.5" (3.8 cm).

3.2 Installing the Splice Trays (Optional)

1. Unfasten two wing head nuts in the middle of the cabinet's inside.
2. Place one or stack two splice trays (optional, part number JPM440A) at the bottom of the compartment and the pigtail's routing guides at the top of the compartment.
3. Re-fasten the wing head nuts.

3.3 Preparing the Cable

1. To unsheath the fiber optic cable, cut the outside jacket of the cable to an approximate length of 0.24" (0.6 cm). Fasten the cable with the 3" (7.6-cm) cable ties.
2. Splice the fiber optic cable to the pigtail fibers. Splice trays (optional) are used to hold and protect the completed splices. When splicing the cable, consider the following.
 - a. Determine and prepare the appropriate length of the fibers to be spliced according to splicing machine recommendations.
 - b. The bare fibers to be spliced from pigtails and the outside plant cable must be equal length when placed on the splice block. The splice block is inside the splice tray (optional) and can be easily removed for splicing as required.
 - c. Insert a heat-shrink protective sleeve (optional) to either end of two fiber optic cables to be spliced before initiating splicing.

3.4 Routing the Cable

1. To route the pigtail, insert the fiber adapters (which contain the connectors for the cable) through the slot on the inside of the cabinet.
2. After the patch cords are terminated, connect them to the fiber adapter panel, route the excess length of patch cord cable using the 3" (7.6-cm) cable ties and 1" (2.5-cm) stick-on rectangular cable holders.

3.5 Identifying the Cable

Use the included port ID stickers to identify the fiber adapters by number. Place the cable management sticker and the warning label on the inside door of the cabinet.

FIBER WALL CABINET, OPEN OR LOCK STYLE, 4-ADAPTER PANEL

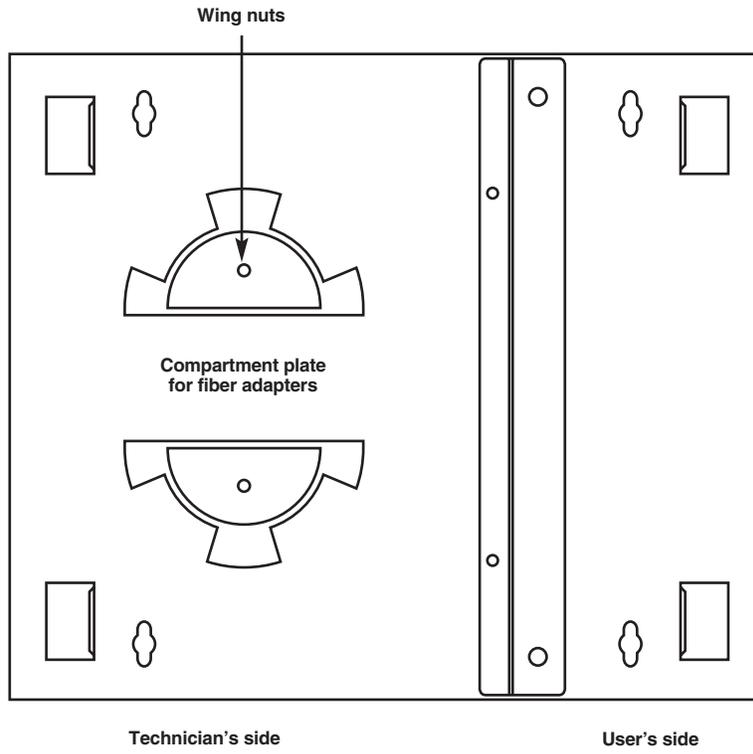


Figure 1. Inside of the JPM401A-R2 cabinet.

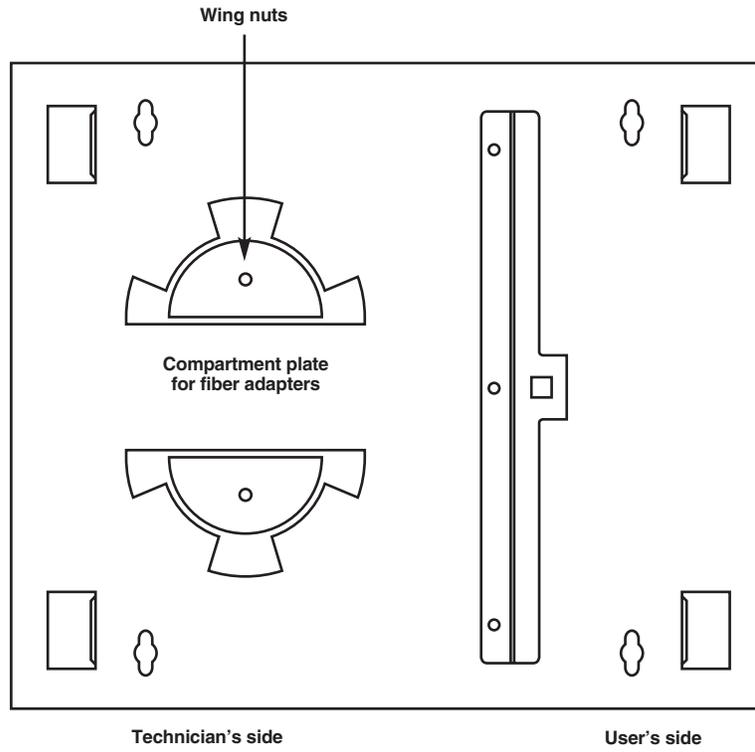


Figure 2. Inside of the JPM402A-R2 cabinet.

FIBER WALL CABINET, OPEN OR LOCK STYLE, 4-ADAPTER PANEL

Cable entrance hole with
rubber grommets

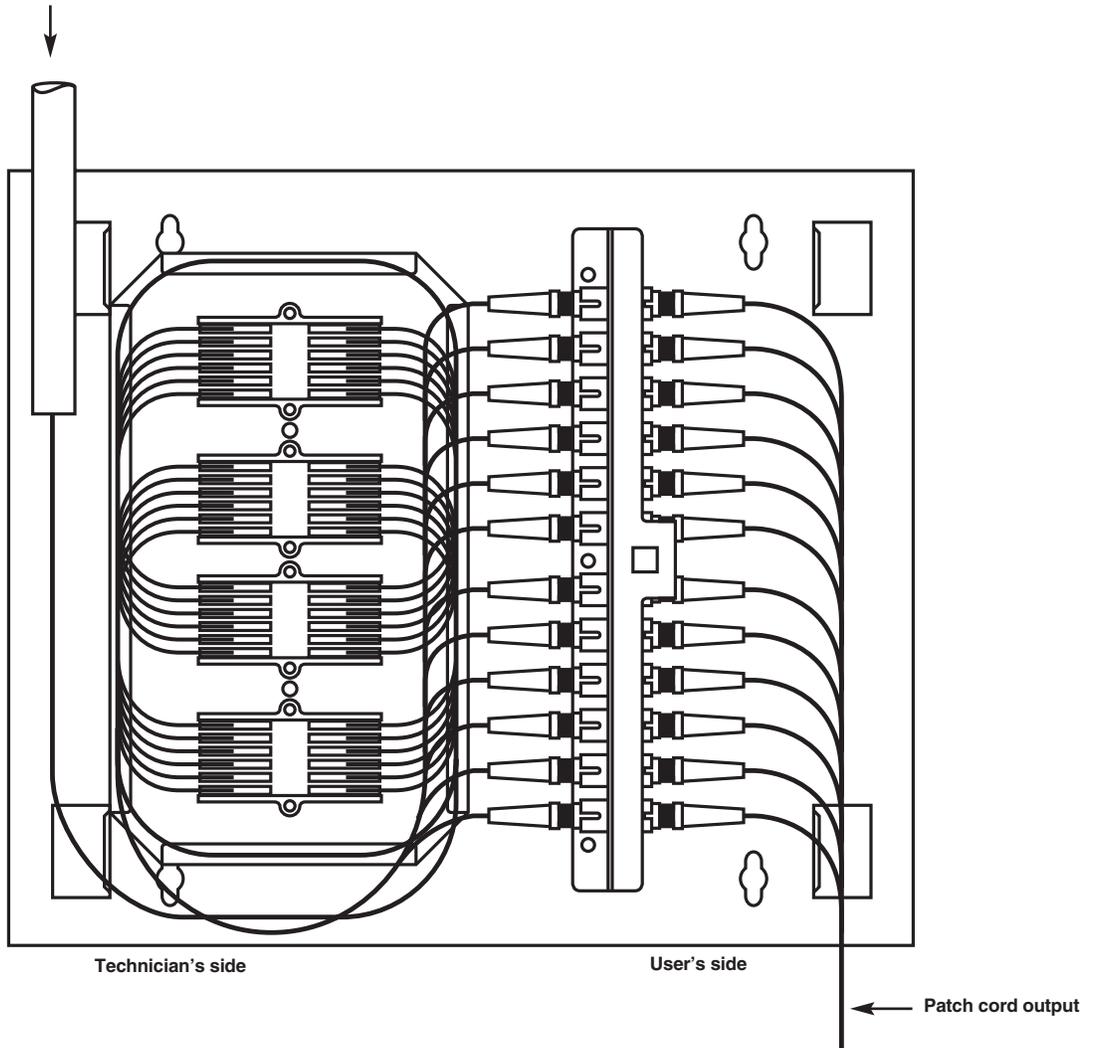


Figure 3. Typical wiring.