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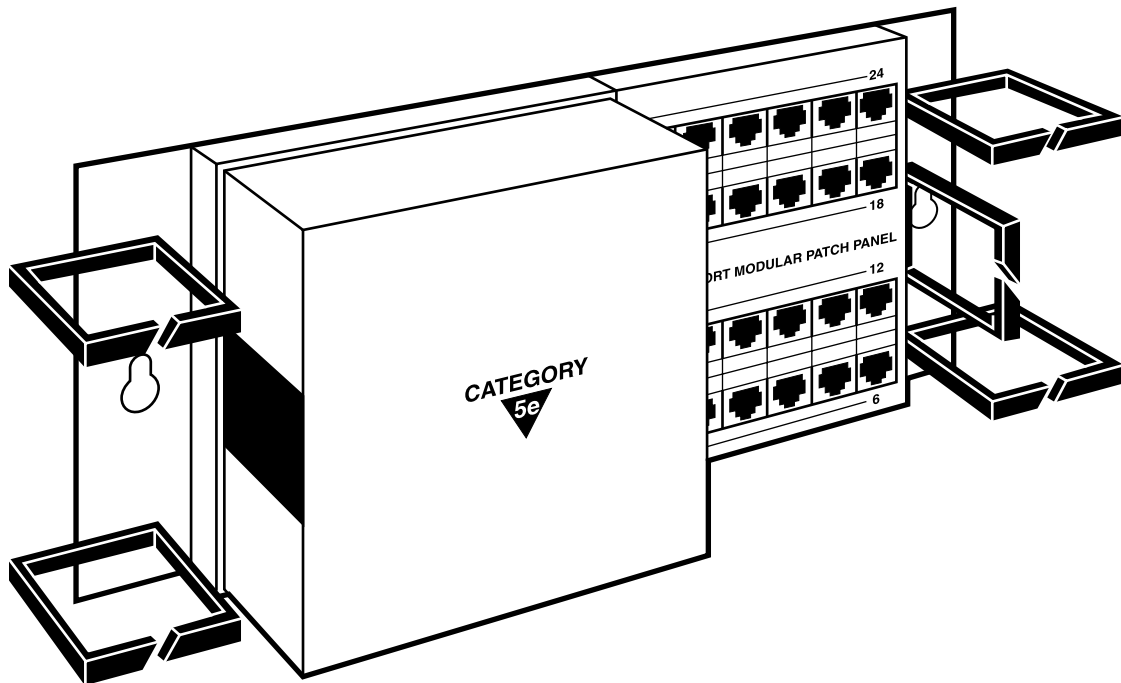
JPM083A-R2

JPM084A-R2

JPM085A-R2

JPM086A-R2

Wallmount CAT5e Patch Panels



**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

TRADEMARKS USED IN THIS MANUAL

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1. Specifications

Compliance: UL® listed, #1863

Termination Type: Incoming cables terminated to 110 clips

Connectors: RJ-45 modular jacks used for patching 568B or 568A wiring pattern (see Figure 1 below)

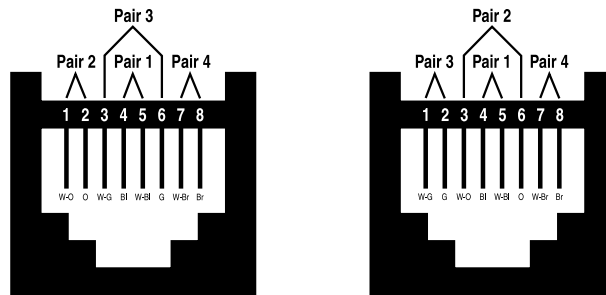


Figure 1. 568B and 568A wiring patterns.

Wiring: JPM084A-R2, JPM086A-R2: T568A (EIA/TIA) wiring pattern;
JPM083A-R2, JPM085A-R2: T568B (Bell 258A) wiring pattern

Bandwidth Support: Up to 350 MHz

Transmission: Exceeds Category 5e requirements for near-end crosstalk (NEXT), attenuation, and return loss as specified in TSB-40 standard

MTBF: 200 cycles

Temperature: Operating: 14 to 140°F (-10 to +60°C);
Storage: -40 to +158°F (-40 to +70°C)

Relative Humidity: 70%, noncondensing

Size: JPM083A-R2, JPM084A-R2: 4.2"H x 17.8"W x 2.8"D (10.7 x 45.2 x 7.1 cm);
JPM085A-R2, JPM086A-R2: 8.2"H x 17.8"W x 2.8"D (20.8 x 45.2 x 7.1 cm)

Weight: JPM083A-R2, JPM084A-R2: 5.1 lb. (2.3 kg); JPM085A-R2, JPM086A-R2: 8.5 lb. (3.9 kg)

2. Introduction

2.1 Overview

The Wallmount CAT5e Patch Panels are designed for small- to medium-sized cross-connect applications where space is limited. For example, the patch panel is ideal for cluttered telecommunication closets where relay racks aren't practical. Because the panel mounts directly on the wall, no extra rack equipment is needed. See Figure 2 for an illustration of the 24-port model.

The panel supports all applications operating on bandwidths up to 100 MHz, including TP-PMD and ATM. The panel exceeds all Category 5e transmission requirements for NEXT, attenuation, and return loss.

2.2 Features

- The panel's simple one-piece design (plus cover) guarantees a clean installation, even in small closets.
- Removable cover protects terminations.
- Total front access to the 110 clips and modular jacks (separate fields for terminating and cross-connecting) cuts installation time and labor costs.
- The patch panel is clearly labeled with jack and block identification numbers.
- Fully enclosed PC board reduces radio-frequency interference.
- Built-in cable management, featuring jumper loops, keeps your cable neat and organized, and helps technicians comply with Category 5e installation practices.
- Removable, unobstructed gold designation strips ensure easier moves and changes.
- 100% computer tested means the panel ensures reliable Category 5e point-to-point continuity.
- Keyhole mounting slots for easier installation.

WALLMOUNT CAT5E PATCH PANELS

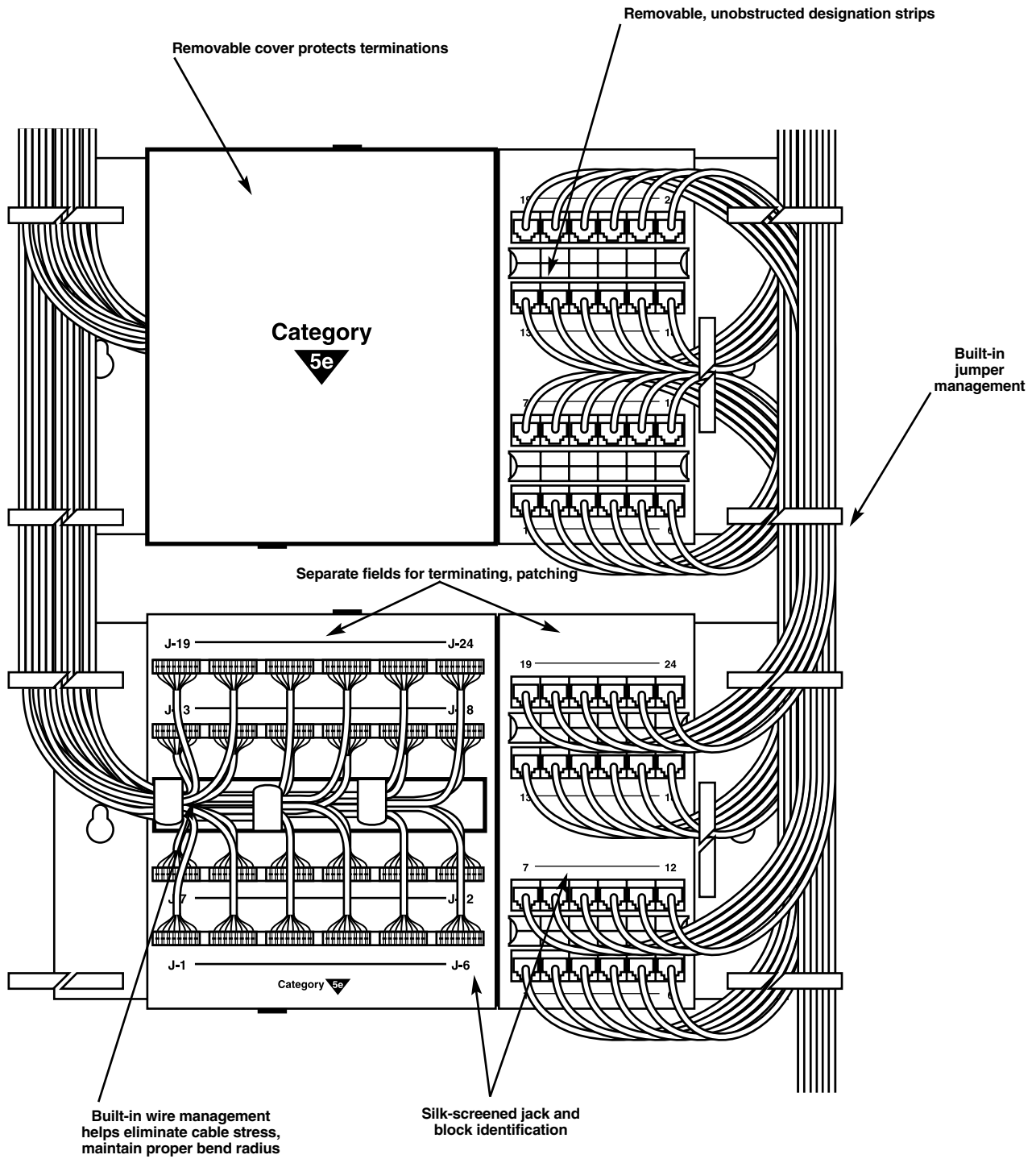


Figure 2. The 24-port model.

3. Installation

Determine the appropriate mounting location for the patch panel. Insert screws (not supplied) through the keyholes in the rear panel and fasten the patch panel securely to the wall.

There are countless ways to install cable in your patch panel. Figures 3 and 4 show (1) the suggested order to terminate the 110 clips (left side of the panel) and (2) the suggested routing of line cords between panels. This setup organizes the cables so the 110 clips and RJ-45 jacks are easily accessible, even with a full patch panel.

Since NEXT electrical performance is affected by wiring practices, the TIA/EIA in 568B specifies “preserving wiring twist as closely as possible to the point of mechanical termination.”

WALLMOUNT CAT5E PATCH PANELS

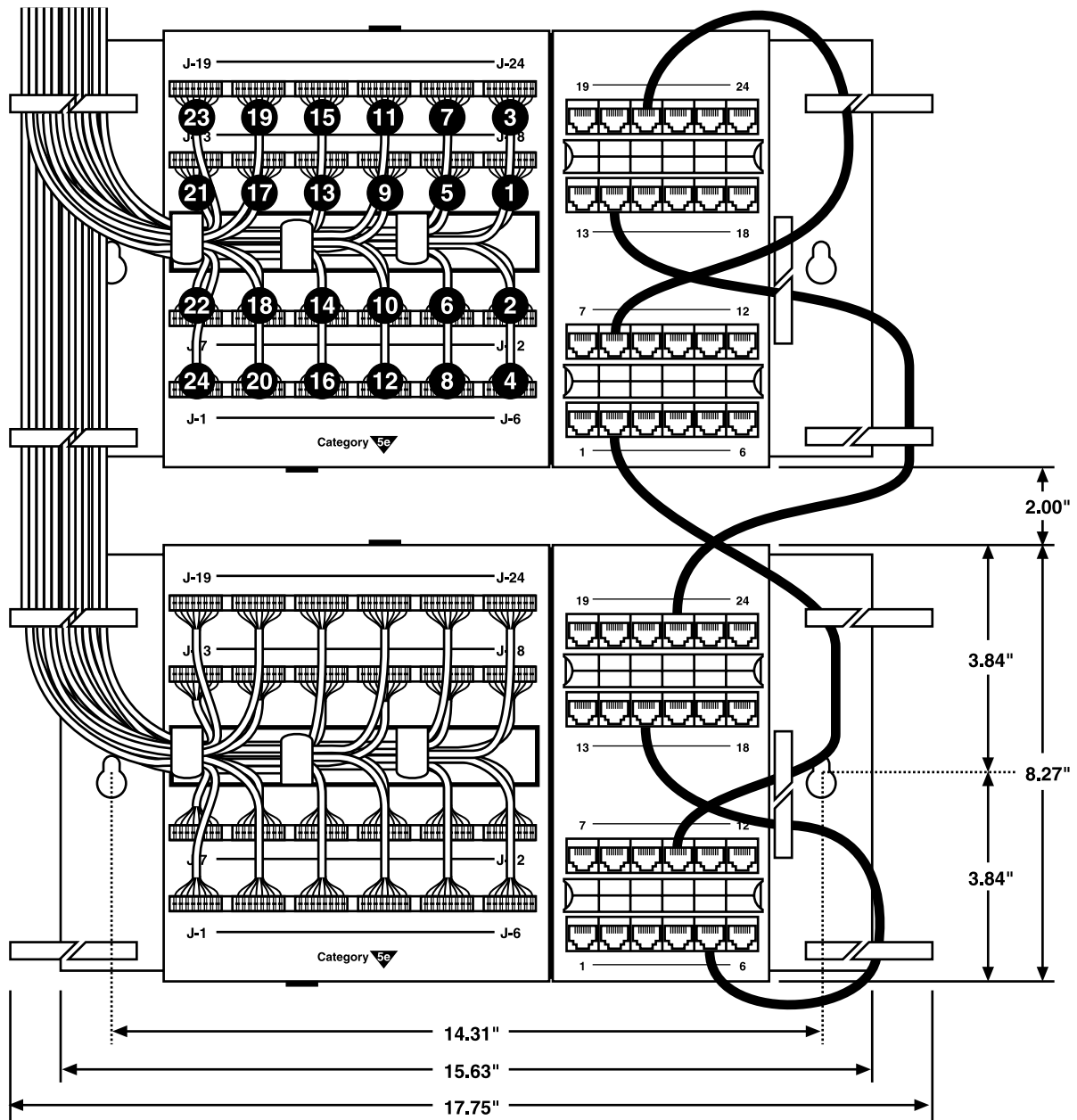


Figure 3. Suggested cable installation for the 24-port patch panels.

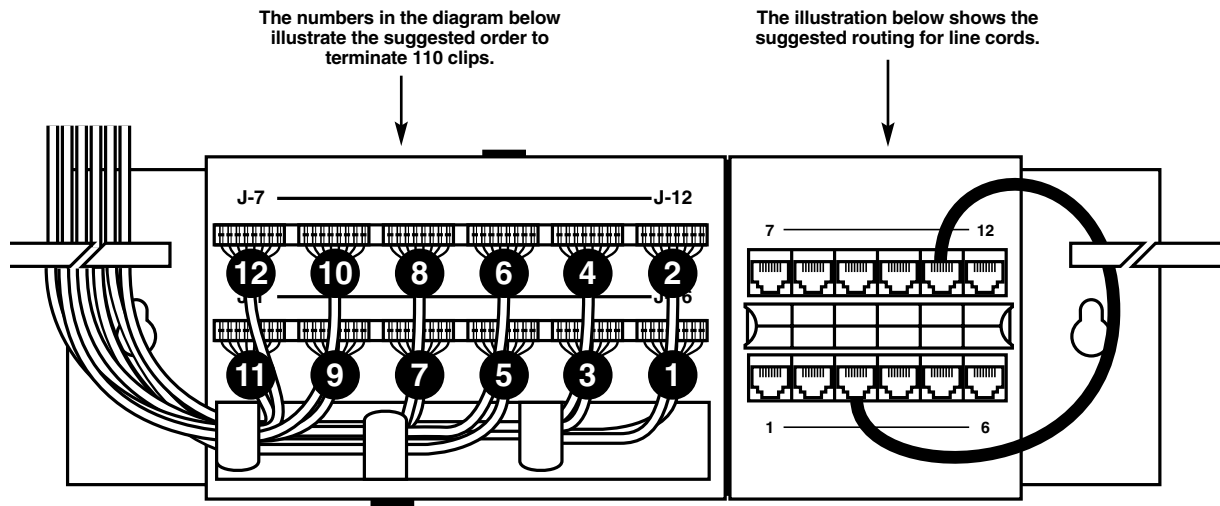


Figure 4. Suggested cable installation for the 12-port patch panels.