

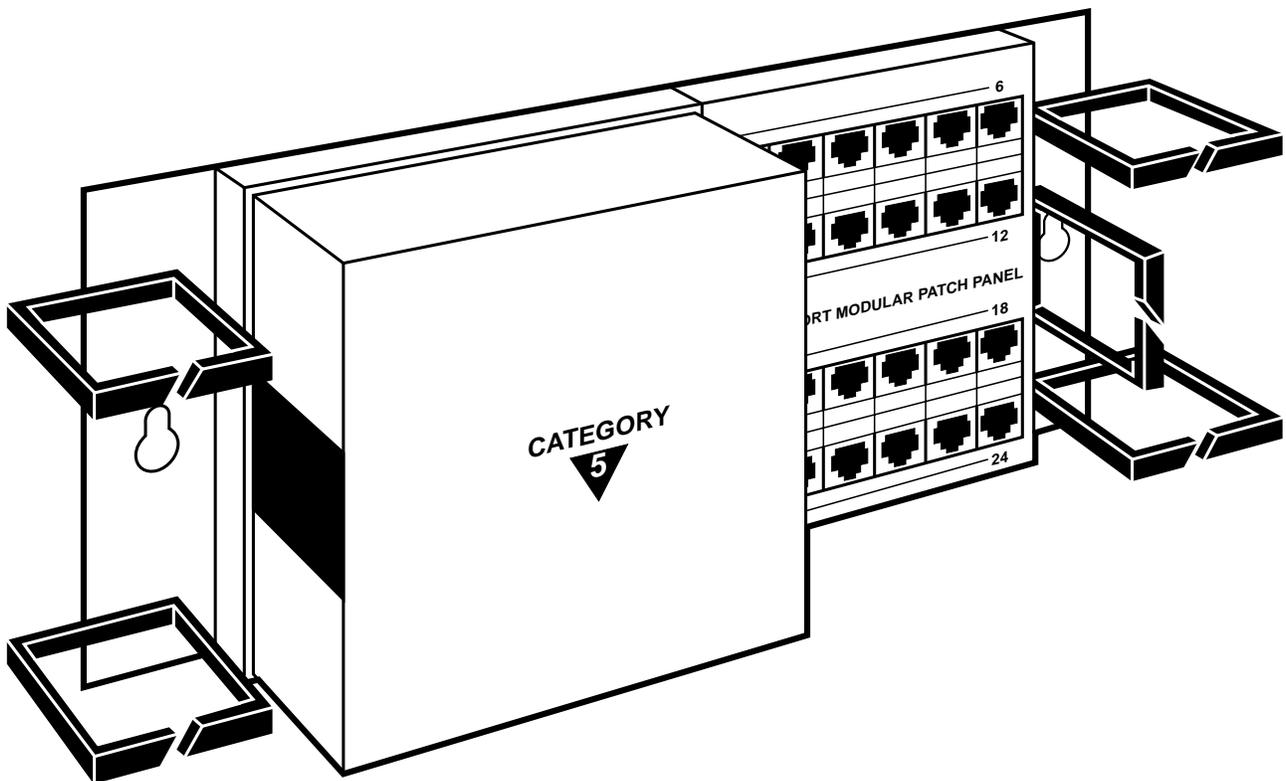


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12-Port Modular Patch Panels 24-Port Modular Patch Panels



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12- AND 24-PORT MODULAR PATCH PANELS

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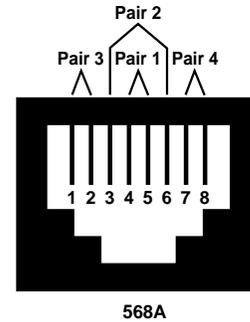
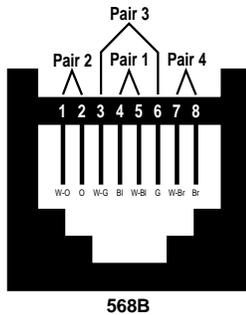
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1. Specifications

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 the illustrations below)



Wiring — JPM084A, JPM086A: TS568A (EIA/TIA) wiring pattern;
JPM083A, JPM085A: T568B (Bell 258A) wiring pattern

Bandwidth Support — Up to 100 MHz

Transmission — Exceeds Category 5 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); 70% relative humidity

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

Weight — 3 lb. (1.3 kg)

2. Introduction

2.1 Description

The 12- and 24-Port Modular 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 1 for an illustration of the 24-Port Modular Patch Panel.

The Panel supports all applications operating on bandwidths up to 100 MHz, including TP-PMD and ATM. The panel exceeds all Category 5 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 5 installation practices.
- Removable, unobstructed gold designation strips ensure easier moves and changes.
- 100% computer tested means the Panel ensures reliable Category 5 point-to-point continuity.
- Keyhole mounting slots for easier installation.

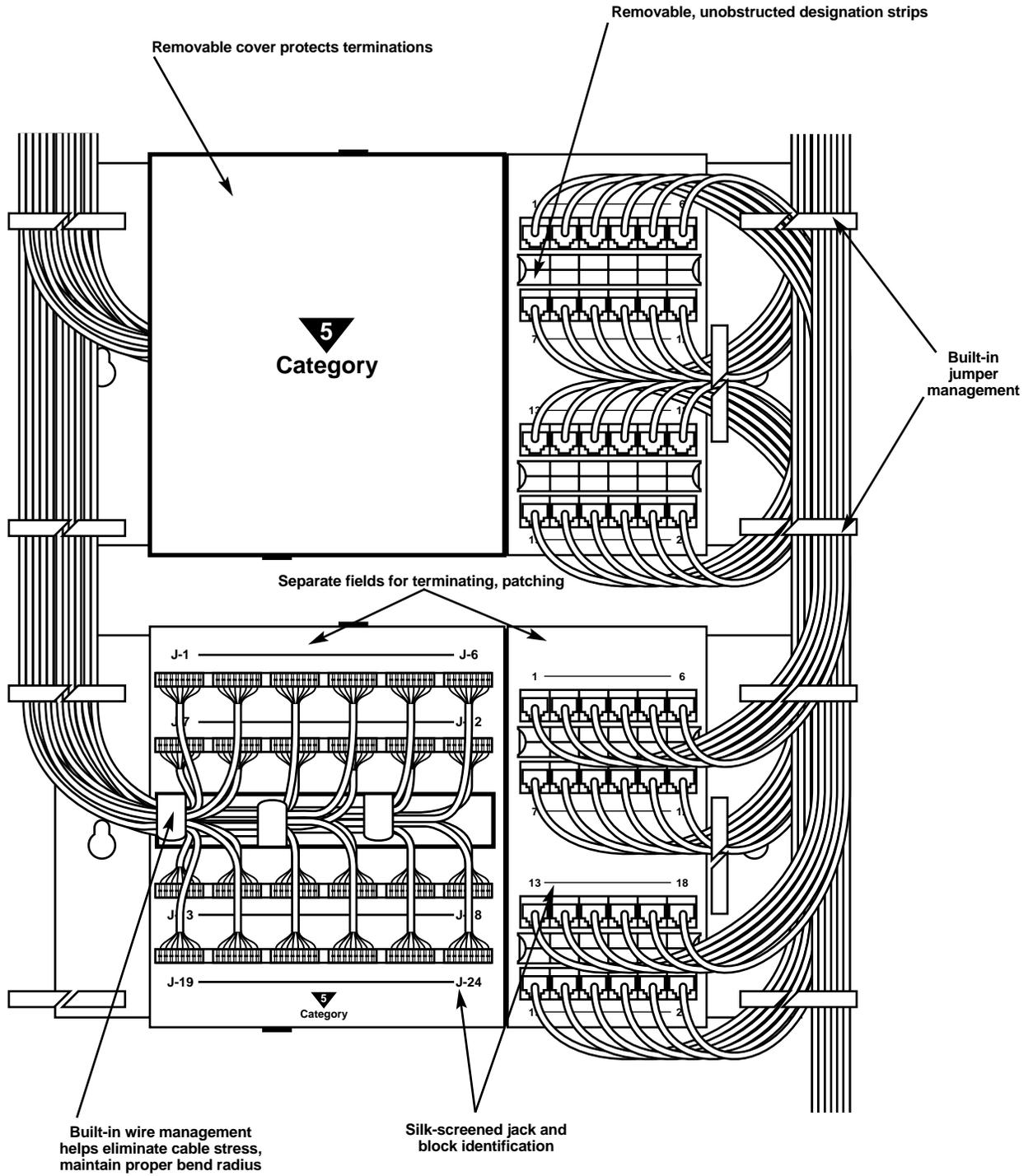


Figure 1. The 24-Port Modular Patch Panel.

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 2 and 3 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 568 specifies “preserving wiring twist as closely as possible to the point of mechanical termination.” In addition, TSB-40 states “the amount of untwisting in a pair as result of termination to connector hardware shall be no greater than 13 mm (0.5 inches) for Category 5 and shall be no greater than 24 mm (1 inch) for Category 4.”

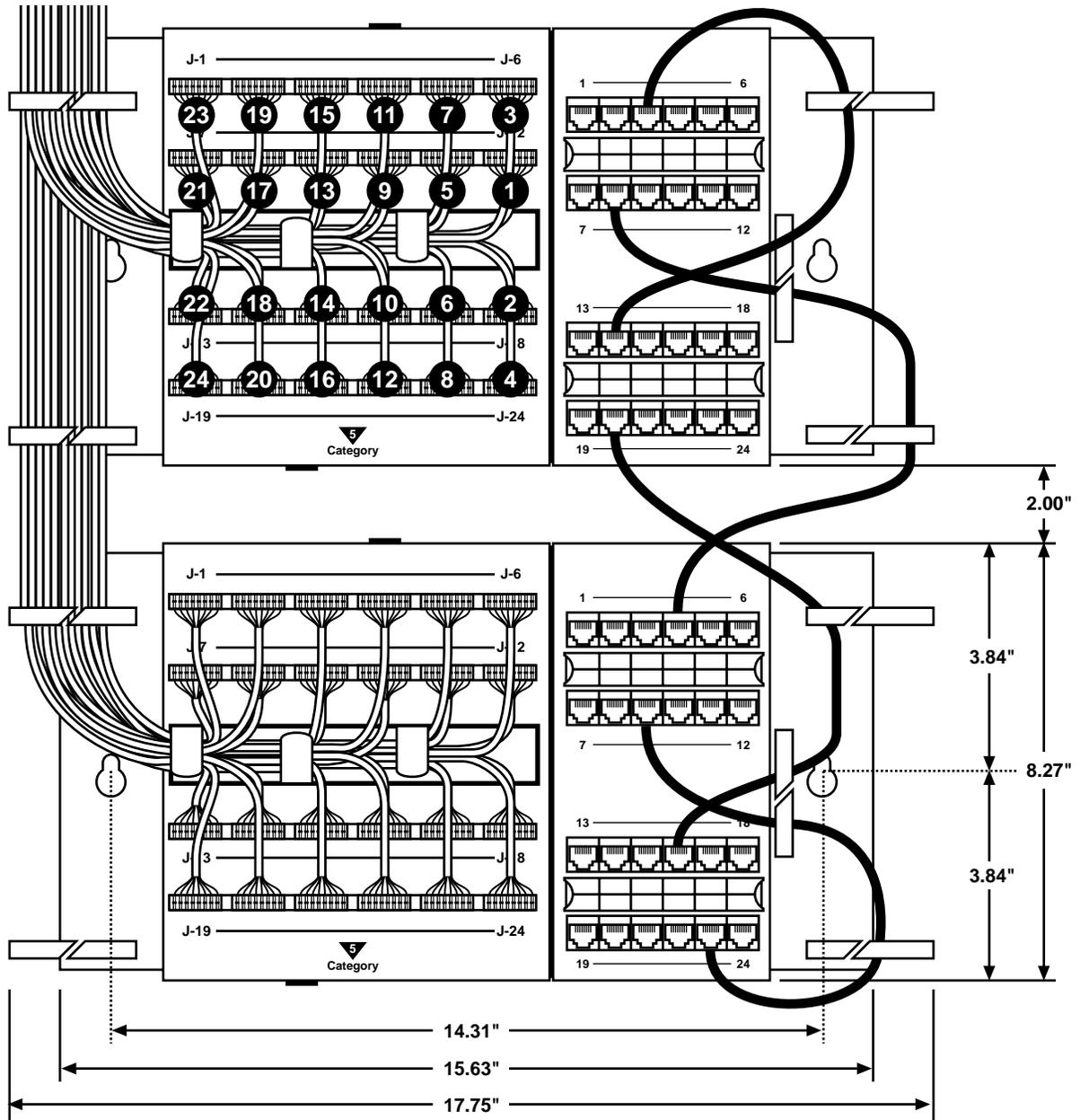


Figure 2. Suggested Cable Installation for the 24-Port Patch Panels.

12- AND 24-PORT MODULAR PATCH PANELS

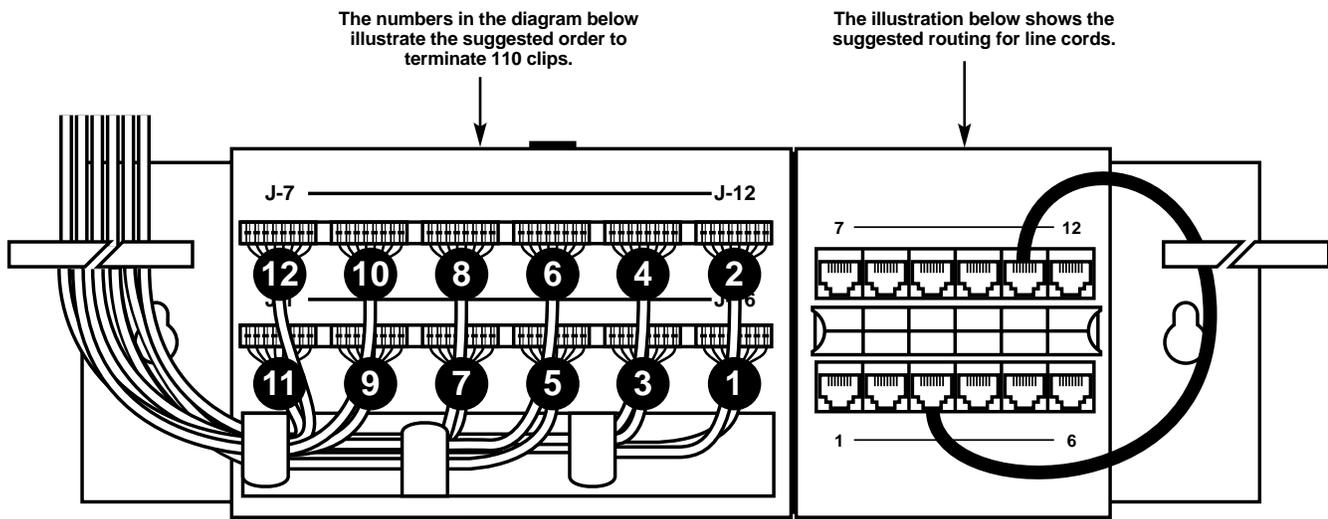


Figure 3. Suggested Cable Installation for the 12-Port Patch Panels.