



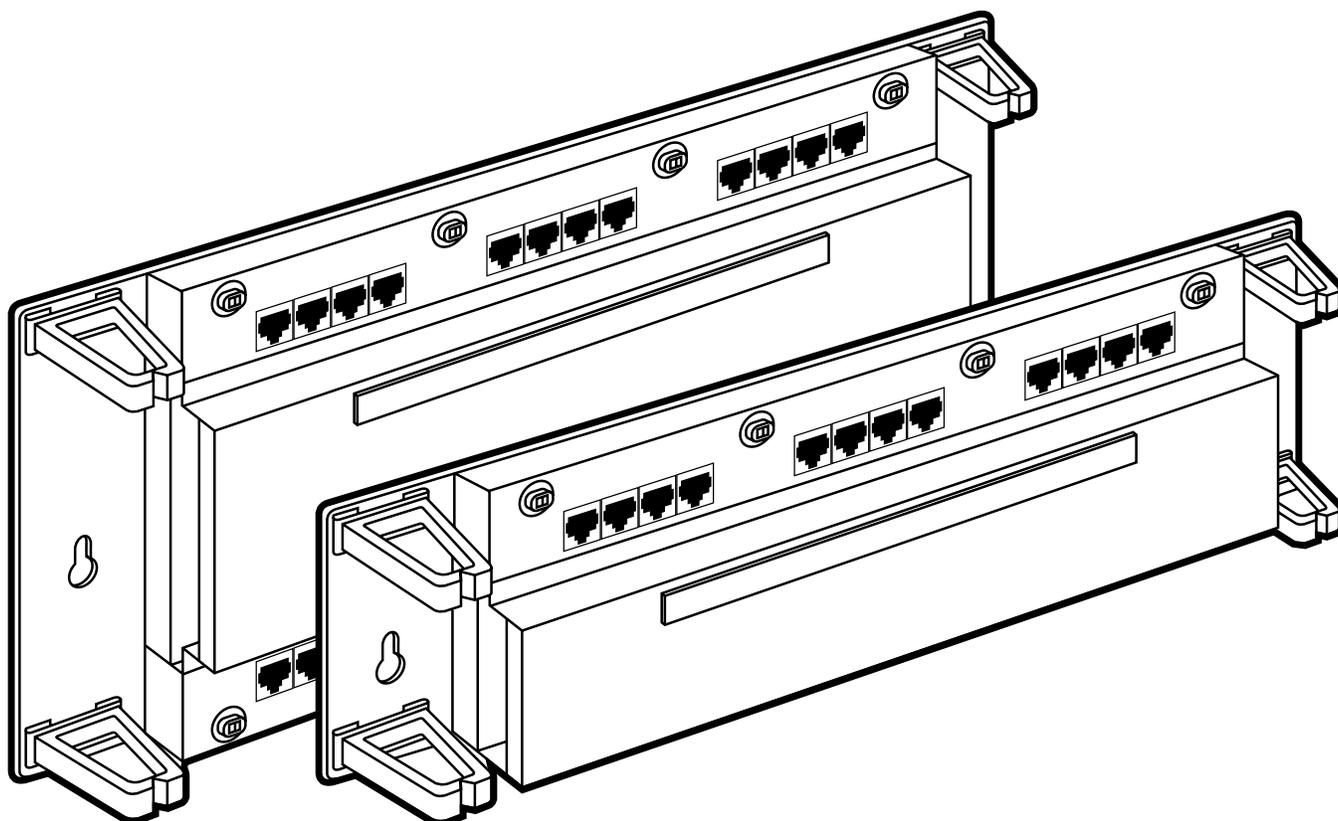
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# Wallmount CAT5e Universal Patch Panel (12- or 24-Port)



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**CUSTOMER  
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INFORMATION**

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# 1. Specifications

**Compliance:** UL® listed

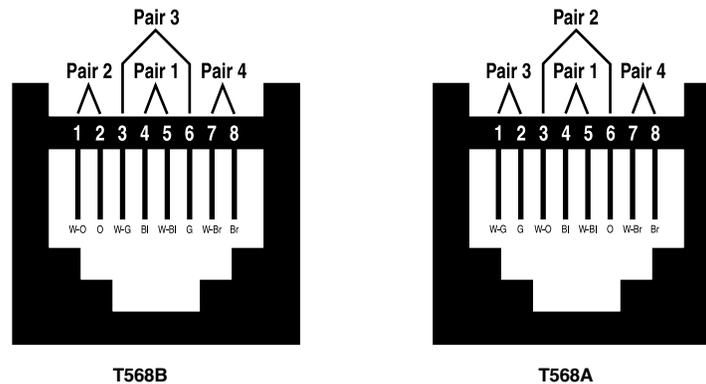
**Termination Type:** Incoming cables terminated to 110 clips

**Wiring:** T568B or T568A

**Bandwidth Support:** Up to 100 MHz

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

**Connectors:** (12) or (24) RJ-45 modular jacks used for patching T568B or T568A wiring pattern (see Figure 1 below); IDC connectors support 22, 24, or 26 AWG solid wire



**Figure 1. T568B and T568A wiring patterns.**

**Indicators:** None

**Plug Insertion Life (MTBF):** 750 cycles minimum

**Temperature:** Operating: -40 to +150°F (-40 to +68°C)

**Size:** JPM083A-R3: 4.1"H x 17"W x 3.1"D (10.4 x 43.2 x 7.9 cm);

JPM085A-R3: 8.1"H x 17"W x 3.1"D (20.6 x 43.2 x 7.9 cm)

**Weight:** JPM083A-R3: 4 lb. (1.8 kg);

JPM085A-R3: 6.8 lb. (3.1 kg)

## 2. Introduction

### 2.1 Overview

The Wallmount CAT5e Universal Patch Panels are designed to link ports together in 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 Figures 2 and 3 for illustrations of the 12- and 24-port models.

The panel supports all applications operating on bandwidths up to 100 MHz, such as 100BASE-TX and Gigabit Ethernet. 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 large hooks and rotating cable tie buttons, keeps your cable neat and organized, and helps technicians comply with Category 5e installation practices.
- 100% computer tested means the panel ensures reliable Category 5e point-to-point continuity.
- Keyhole mounting slots for easier installation.
- Includes cable ties to help support cable management.

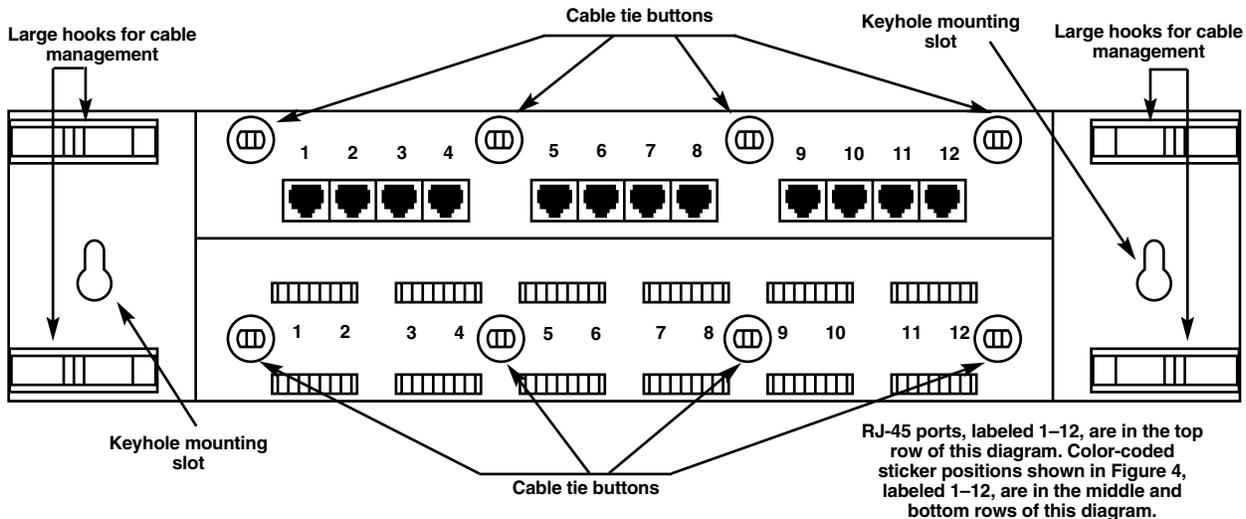


Figure 2. 12-port model.

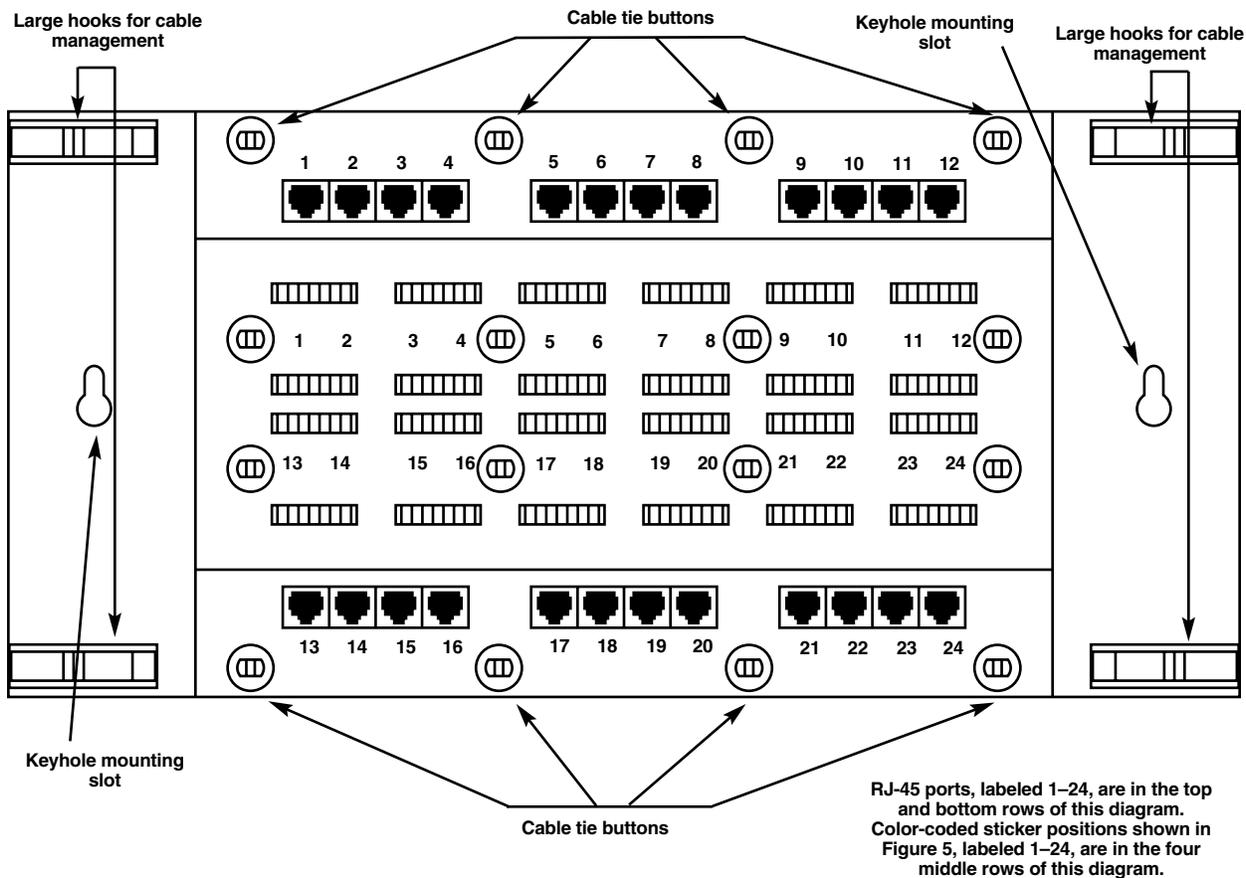


Figure 3. 24-port model.

# 3. Installation

1. Make sure that the Wallmount CAT5e Universal Patch Panel is firmly secured to the wall.
2. Remove the IDC cover by sliding it to the right and then lifting it from the surface.
3. To prepare the cable, strip about 2 inches (5.1 cm) of cable jacket. Be careful not to damage the twisted wire.
4. Place each wire in the appropriate position based on wiring color and label. See Figures 4 and 5.

## NOTE

**For best performance, keep the untwisted part of the cable less than 0.5 inches (1.3 cm) long.**

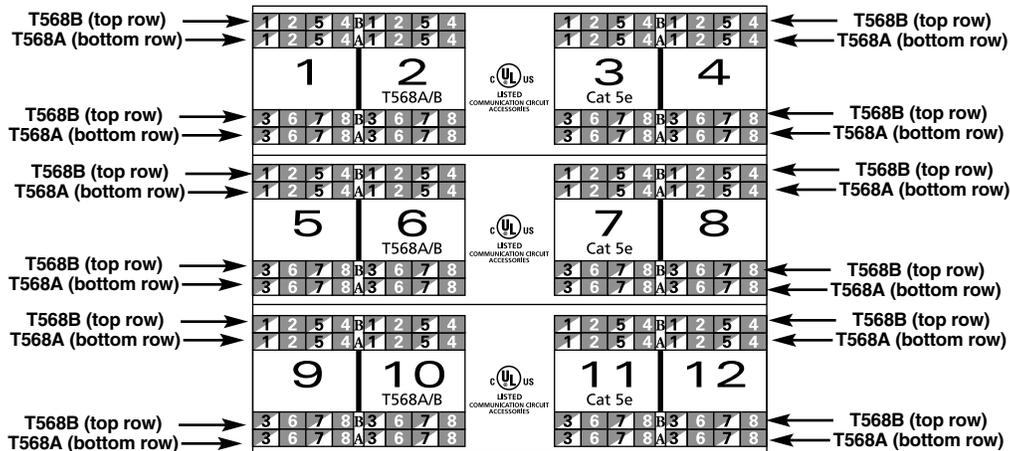


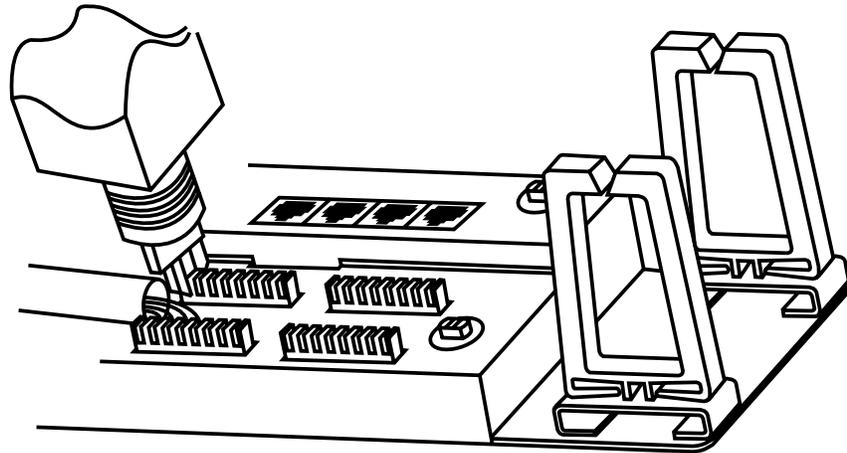
Figure 4. 12-port patch panel's T568B and T568A wiring labels.



Figure 5. 24-port patch panel's T568B and T568A wiring labels.

## WALLMOUNT CAT5E UNIVERSAL PATCH PANEL (12- OR 24-PORT)

5. Terminate each wire with a 110 punchdown tool. Then push the 110 tool to the edge of the connector in order to trim the conductors. See Figure 6.



**Figure 6. Using the punchdown tool to terminate connectors.**

6. When all cables are terminated to the wallmount patch panel, use the large hooks and cable tie buttons for cable management where necessary.
7. Plug the patch cord into the patch panel to connect to the network equipment.