# What do the colors of the 8-port terminal box mean



## Overview

The UTP cable pairs are color coded as shown: Each pair consists of a colored wire and a white wire with a matching color stripe.

## Key Takeaways

The colors in an 8-port terminal box correspond to specific wire pairs in Ethernet cabling, with each color indicating a particular signal path for data transmission and, in some cases, Power over Ethernet (PoE).Color Coding Overview

An 8-port terminal box, often used for RJ45 Ethernet connections, follows a standardized color scheme to ensure proper wiring and reliable network communication. The eight wires are arranged in four twisted pairs, each with a solid-colored wire and a white-striped wire:

• Orange Pair: White/Orange (Pin 1), Orange (Pin 2)

• Green Pair: White/Green (Pin 3), Green (Pin 6)

• Blue Pair: White/Blue (Pin 4), Blue (Pin 5)

• Brown Pair: White/Brown (Pin 7), Brown (Pin 8) These pairs are used to transmit and receive data signals, with the orange and green pairs typically handling the primary data channels in standard Ethernet connections, while the blue and brown pairs may be used for additional data or PoE power delivery .
Wiring Standards: T568A vs T568B

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The arrangement of these colors depends on the wiring standard:

• T568A Standard:
• Pins 1 & 2: White/Green and Green

• Pins 3 & 6: White/Orange and Orange

• Pins 4 & 5: White/Blue and Blue

• Pins 7 & 8: White/Brown and Brown

• T568B Standard:
• Pins 1 & 2: White/Orange and Orange

• Pins 3 & 6: White/Green and Green

• Pins 4 & 5: White/Blue and Blue

• Pins 7 & 8: White/Brown and Brown The main difference is the swapping of the orange and green pairs, which affects signal pairing but not overall functionality. Both standards are ANSI/TIA-568 compliant, and consistency is key to avoid connectivity issues .

Functional Significance
• Pins 1 & 2 and 3 & 6: Primary transmit and receive data pairs for 10/100 Mbps Ethernet.

• Pins 4 & 5 and 7 & 8: Often unused in standard Ethernet but carry power in PoE setups.

• Striped vs Solid Wires: Striped wires are typically connected to odd-numbered pins, solid wires to even-numbered pins, ensuring correct pairing and minimizing crosstalk .
Practical Tips
• Always use the same wiring standard on both ends of a cable to ensure proper connectivity.

• For PoE devices, ensure the blue and brown pairs are correctly connected to deliver power safely.

• Labeling or color-coding in terminal boxes simplifies troubleshooting and prevents miswiring. By following these color codes and standards, an 8-port terminal box can reliably support Ethernet data transmission and PoE applications.

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