

How to connect two sets of network cables to the terminal box



AI Overview

Use an Ethernet junction box with insulation displacement connectors (IDC) to securely join two Ethernet cables while maintaining network performance. Using a Junction Box

An Ethernet junction box (also called a splice block or coupler block) is designed to permanently join two Ethernet cable segments. It provides a protected enclosure that prevents physical stress and environmental damage, ensuring a stable connection for in-wall or ceiling installations. Junction boxes are ideal for repairing damaged cables or extending a cable run without replacing the entire length.

Steps to Connect Cables

Prepare the cables: Strip about 1–2 inches of the outer jacket from each cable using a cable stripper, being careful not to damage the twisted pairs inside.

Untwist and straighten wires: Untwist each pair just enough to fit into the IDC slots, keeping the untwisted section under half an inch.

Follow wiring standards: Use the same color code (T568A or T568B) for both cables to ensure a straight-through connection. T568B is commonly used in the U.S. and arranges wires as Orange/White, Orange, Green/White, Blue, Blue/White, Green, Brown/White, Brown.

Punch down wires: Insert each wire into the corresponding IDC slot and use a punch-down tool to secure it. This creates a reliable electrical connection without soldering.

Close the box: Once all wires are terminated, close the junction box to protect the connections.

Alternative Methods

Ethernet coupler: For temporary or patch-cord connections, a coupler allows two pre-terminated cables to be joined by simply plugging them in. This is less permanent but quick and effective for short-term setups.

RJ45 connector: If both cable ends are stripped, you can terminate them into a single RJ45 connector, but this requires crimping tools and is less common for in-wall installations.

Avoid twisting or soldering directly: Directly twisting or soldering wires...

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