

How to connect wall-mounted cable trays and flat cable trays



Overview

This document provides details on installing cable trays and their support systems. It includes diagrams showing how to mount cable trays on walls using pre-fabricated flanges or channels.

Key Takeaways

Wall-mounted cable trays can be securely connected to flat cable trays using brackets, splice plates, and proper alignment to ensure stability, load support, and safe cable routing. Step 1: Plan the Transition Before connecting, assess the cable load, tray types, and route. Determine where the wall-mounted tray will meet the flat tray and ensure there is enough clearance for cables to bend without exceeding their minimum bend radius.

Mark the exact points on the wall and floor where the trays will align. Step 2: Select Appropriate Hardware Brackets and Supports: Use wall brackets or hangers to support the vertical tray. Ensure spacing is adequate (typically 1.

5–3 meters apart depending on load) to prevent sagging. Splice Plates or Fish Plates: Flat metal plates with pre-drilled holes can join the ends of the wall-mounted tray to the flat tray. Bolt them securely to both tray ends for a strong, stable connection.

Quick Connect Systems: For faster installation, some manufacturers offer snap or slide fittings that reduce labor time, though they may be brand-specific. Step 3: Align and Secure Level and Align: Ensure the wall-mounted tray is vertical and the flat tray is horizontal. Misalignment can cause stress on cables and trays.

Bolt Connections: Use the appropriate fasteners (nuts, bolts, washers) to attach splice plates or brackets. Tighten to manufacturer-recommended torque to maintain stability. **Check Clearance:** Maintain proper spacing between cables and tray edges to prevent abrasion and allow airflow.

Step 4: Cable Routing Transition Smoothly: Guide cables from the vertical tray to the horizontal tray without sharp bends. If necessary, remove or adjust rungs to maintain the minimum bend radius. **Secure Cables:** Use cable ties or straps to organize cables at the transition point, ensuring they remain supported and do not sag.

Step 5: Inspection and Maintenance Verify Stability: Check that all connections are firm and the trays can support the intended cable load. **Future Access:** Ensure the connection allows for easy addition or removal of cables without disassembling the entire system. By following these steps, wall-mounted and flat cable trays can be connected safely and efficiently, providing a durable and organized cable management system suitable for industrial, commercial, or data center environments.

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