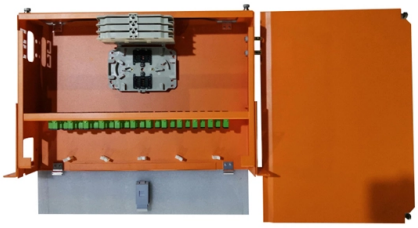
ZITHA TECH SPECIALTY CABLES (Pty) Ltd

How to install cable trays inside walls



Overview

Cable Tray Installation Whether you're building a commercial setup or upgrading an industrial plant, proper cable tray installation ensures A Guide to Inst.

Key Takeaways

Wall-mounted cable trays are installed by securely fixing brackets to the wall, aligning trays level, and fastening them with appropriate hardware while ensuring proper cable support and grounding.

Step 1: Plan the Route and Tray Type

Before installation, map the cable tray route along the wall, considering clearance, bends, and future expansion needs. Choose the appropriate tray type based on cable size and environment: ladder trays for large power cables, ventilated troughs for smaller control cables, or wire mesh trays for flexible routing and lighter loads .

Step 2: Gather Tools and Materials

You will need:

• Cable trays and couplers (splice plates)

• Wall brackets or cantilever supports (e.g., YPK wall supports)

• Screws, nuts, and wall anchors (e.g., M6x30 screws and M6 nuts)

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• Power drill, wrench set, measuring tape, level, hacksaw or angle grinder, and file for deburring

• Cable ties or clamps for securing cables

• Grounding straps for metal trays

Step 3: Mark Support Points

Use a chalk line or laser level to mark the tray path on the wall. Mark support points at regular intervals, typically every 1.5 to 2 meters, depending on tray type and load . Identify locations for bends, tees, or elevation changes.

Step 4: Install Wall Brackets

• Drill holes at the marked points and insert wall anchors suitable for the wall material (e.g., expansion bolts for concrete).

• Attach cantilever brackets or YPK wall supports to the wall, ensuring they are level and aligned .

Step 5: Place and Secure the Trays

• Lift tray sections onto the brackets.

• Join sections using couplers or splice plates.

• Secure trays to the brackets with hold-down clips or bolts to prevent movement .

• For wire mesh trays, use joint WMT CL to attach to wall supports .

Step 6: Lay and Organize Cables

• Place cables neatly within the tray, grouping by type or voltage.

• Use cable ties or straps to prevent sagging and allow for expansion or future adjustments .

Step 7: Grounding and Bonding

• For metal trays, bond all sections together using grounding straps to maintain electrical continuity and safety .

Step 8: Final Checks

• Inspect for loose clamps, misalignment, or overfilled sections.

• Ensure the tray is level, stable, and capable of supporting the cable load without sagging .

By following these steps, you can achieve a safe, organized, and code-compliant wall-mounted cable tray installation that allows for easy maintenance and future expansion.

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