How to install a light cable tray



Overview

Welcome to our step-by-step guide on installing cable trays! In this video, we''ll explore the different types of cable trays available and provide detailed instructions for their...

Key Takeaways

Light cable trays are installed by planning the route, selecting the appropriate tray type, mounting supports, securing trays, and neatly laying cables while ensuring proper grounding. Step 1: Planning and PreparationBefore installation, review approved shop drawings to determine tray layout, length, and location in the building. Inspect all materials to ensure they meet project specifications and are free from damage.

Store trays horizontally on a flat surface with timber supports at intervals of one meter to prevent warping or moisture damage. Clear the installation area of debris and obstacles to ensure a smooth workflow. Step 2: Selecting Tray Type and SizeChoose a tray type suitable for light loads, such as perforated or wire mesh trays, which provide adequate support while allowing airflow.

Calculate tray width and depth based on the number and type of cables, ensuring compliance with electrical codes and avoiding overcrowding. Ladder trays are also an option if ventilation and easy cable entry are priorities. Step 3: Marking and Support InstallationMark the tray route using a chalk line or laser level.

Identify support points at standard intervals, typically 1. 5 to 3 meters apart, depending on tray type and load. Supports can be mounted via wall brackets (cantilever) or ceiling suspension (trapeze or C-hanger).

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Drill holes, insert anchors, and attach brackets or threaded rods, ensuring they are level and secure. Step 4: Tray Placement and SecuringMeasure and cut trays to fit the route, including bends or tees. Deburr all cut edges to prevent cable damage.

Lift tray sections onto supports and secure them using hold-down clips, bolts, or nuts and washers. Connect sections end-to-end with couplers or splice plates, ensuring alignment and stability. Step 5: Cable Laying and OrganizationPlace cables neatly within the tray, using cable ties or straps to separate by voltage or function.

Leave slack for expansion or future adjustments. Maintain proper segregation to reduce interference and simplify maintenance. Label cables for easy identification and connect the tray system to the grounding network to prevent static buildup and electrical hazards.

Step 6: Final ChecksVerify that all trays are level, secure, and properly supported. Ensure compliance with local electrical codes, including fill ratios and grounding requirements. Inspect the installation for potential hazards, sagging, or misalignment before energizing the system.

By following these steps, light cable trays can be installed safely, efficiently, and in a manner that allows for future maintenance and expansion.

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