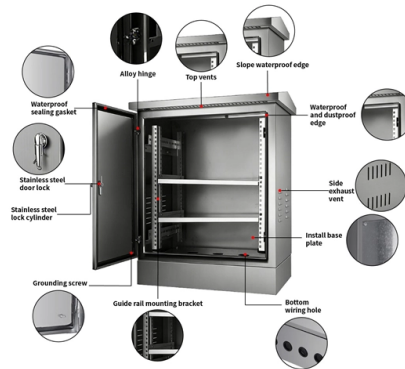


How to install and secure cable trays



AI Overview

Cable trays should be securely mounted using appropriate supports, connectors, and spacing to ensure stability, safety, and compliance with electrical codes.

Planning and Preparation

Before installation, plan the tray route according to approved shop drawings, considering clearance, load capacity, and cable separation requirements. Ensure all materials are approved and available on-site, and coordinate with other services to avoid conflicts . Mark the paths from distribution panels to designated endpoints before fixing any trays .

Selecting Supports and Mounting

Use threaded rods and slotted channels to hang trays from ceilings or walls. For trays under 300mm, 10mm GI threaded rods are recommended; for trays above 300mm, use 12mm rods . Install GI slotted C-channels on the rods with nuts and washers, then mount the cable trays on these channels. Supports should be spaced 1.5 to 3 meters apart, depending on tray type and load . Ensure trays are aligned, level, and securely fastened to prevent sagging .

Connecting and Securing Trays

Use connectors, fittings, and joints designed for the tray type. Ladder trays provide rungs for tying cables, while ventilated troughs offer continuous support for smaller cables . Connections should be tight to maintain system stability, prevent sagging,...

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All the cable trays and trunking covers shall be secured with proper clamps or screws fixed with supports. Ensure the gaps between

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