How to tie trapezoidal cable trays



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 installation.

Key Takeaways

Trapezoidal cable trays are connected using splice plates, bolts, and support brackets to ensure a secure and continuous cable pathway. Connection Methods1. Splice Plates: Trapezoidal cable trays are typically joined end-to-end using splice plates.

These metal plates are positioned underneath or inside the tray ends and aligned with pre-drilled holes. Bolts and nuts are then used to secure the plates, ensuring a rigid and stable connection between sections. 2.

Bolted Joints: The tray sections are fastened together using bolts, washers, and nuts through the aligned holes in the tray flanges and splice plates. This method provides mechanical strength and maintains the tray's load-bearing capacity. 3.

Support Brackets and Hangers: To maintain proper alignment and prevent sagging, support elements such as trapeze hangers, wall brackets, or center-span supports are installed at regular intervals. These supports anchor the tray to ceilings, walls, or structural beams, distributing the load evenly and complying with maximum support spacing guidelines. 4.

Fittings for Direction Changes: When the tray system needs to change direction or branch out, elbows, tees, and reducers are used. These fittings are connected in the same manner as straight sections, using splice plates and bolts to maintain structural integrity. 5.

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Covers and Hold-

Down Clamps: If the trapezoidal tray includes a cover, hold-down clamps are used to secure the cover to the tray base after the sections are connected. This protects cables from dust, debris, and mechanical interference.

Installation Tips

Ensure all tray ends are properly aligned before bolting to avoid stress points. Use the correct size and grade of bolts to match the tray material (steel, aluminum, or stainless steel). Maintain recommended support spacing to prevent excessive deflection, typically around 3–3.

6 meters for standard trays. Follow local electrical codes and manufacturer guidelines for load capacity and installation safety. By following these methods, trapezoidal cable trays can be securely connected to form a continuous, stable, and safe cable management system.

Article Content

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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. The document

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How to Choose the Best Cable Management for Your Setup

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Tie Down Practices for Multiconductor Cables in Cable Trays

In horizontal cable trays where cable spacing is to be maintained, the cables should be tied down at approximately 10 foot intervals. For horizontal ventilated channel cable trays, there are installations

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Cable Tray, trunking and ladder will be properly supported and stacked in a flat surface. Tray, trunking and ladder will be stored in a covered area to prevent water or other foreign materials

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Cable Tray Technical Guide A practical guide to product selection and installation This guide for engineers and installers has been developed by ABB as a practical reference regarding cable tray

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