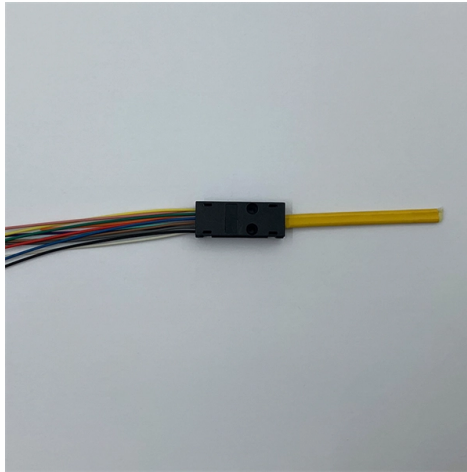


Installation of cable tray arch support



Overview

A Guide to Installing and Supporting Electrical Cable Trays This guide covers the critical steps, from selecting the right electrical cable tray and perform.

Key Takeaways

Cable tray supports should be installed according to approved drawings, using appropriate hangers, threaded rods, and channels, with proper spacing and load considerations to ensure safety and compliance with standards.

Planning and Preparation

Before installation, review the approved shop drawings to determine tray routes, lengths, and support locations, ensuring no clashes with other services and maintaining adequate clearance for cable pulling and future maintenance. Inspect all materials for damage and verify they match the approved submittal. Store trays and ladders horizontally on flat surfaces with timber supports at 1-meter intervals, protected from moisture and sunlight.

Types of Supports

Trapeze or Swing Support: The most common type, using threaded rods, cross members, and tray clips. Vertical hangers pass through the cross member, which should have holes slightly larger than the rod diameter for easy adjustment.



Center-

Hung Supports: Allow cables to be deposited from both sides, facilitating faster installation. Maximum load per hanger is typically 318–340 kg, with a maximum support spacing of 3.6 m.

Wall-

Mounted or Direct Supports: Use 'L' angles or slotted 'C' channels fixed to walls or slabs, with seismic restraints where required.

Installation Steps

Mark Support Locations: Position supports along horizontal and vertical runs according to drawings, maintaining a maximum spacing of 1.2 m for straight runs to prevent sagging. Install Threaded Rods and Channels: Fix rods with appropriate anchors or metal plugs, attach channels or cross members, and ensure they are level and aligned.

Attach Cable Trays: Secure trays to supports using manufacturer-approved clips, allowing for minor horizontal adjustments. Ensure all sharp edges are removed and cut ends are treated with zinc-rich paint. Provide Support for Fittings: Bends, branches, and offsets require additional supports close to the fitting (typically within 150 mm) to maintain stability.

Expansion and Grounding: Allow for expansion at building joints and long runs, install bonding jumpers at expansion points, and ground trays at intervals of 15 m or as specified.

Safety and Compliance

Only qualified personnel should perform installation, following local codes and manufacturer instructions. Avoid using trays as walkways or supports for personnel. Ensure proper labeling and identification of services for maintenance and safety.

By following these guidelines, cable tray supports will provide a stable, safe, and code-compliant system for routing electrical cables in industrial or commercial installations.

Article Content

A Guide to Installing and Supporting Electrical Cable Trays

This guide covers the critical steps, from selecting the right electrical cable tray and performing accurate cable fill calculations to managing a safe cable pull through

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