

Article Overview

Plastic cable trays can be hoisted using hoisting frames or cross arms with suspension rods, ensuring proper support, spacing, and secure fastening for both small and large trays.

Hoisting Small-Sized Cable Trays

For smaller plastic cable trays, hoisting frames are commonly used. These frames are cost-effective, easy to install, and provide adequate support for lighter loads. The typical setup includes:

- o Hoisting frame: Supports the tray horizontally.
- o Suspension rod: Connects the ceiling or overhead structure to the hoisting frame.
- o Five-piece fastening kit: Ensures secure attachment of the tray to the frame. The recommended spacing is one hoisting frame every 1.5 to 2 meters of tray length, with each frame accompanied by a suspension rod and fastening kit to maintain stability and prevent sagging .

Hoisting Large-Sized Cable Trays

For larger or heavier trays, cross arms provide a more robust solution. Key components include:

- o Cross arm: Offers strong horizontal support and facilitates maintenance.
- o Two suspension rods: Provide vertical support from the ceiling to the cross arm.
- o Two sets of fastening kits: Secure the tray to the cross arm. The installation ratio is also one cross arm every 1.5 to 2 meters, ensuring sufficient structural integrity for heavier cable loads .

Suspension and Support Considerations

- o Suspension rods (lead screws): Essential for connecting the ceiling support to the tray's hoisting crossbars. They can be cut to length and used with expansion components or nuts for secure attachment.
- o Center-hung supports: Allow cables to be deposited from both sides, speeding up installation and reducing strain on the tray .
- o Maximum load per hanger: Typically ranges from 318 kg to 340 kg, with a maximum support spacing of 3.6 meters for center-hung systems .

Safety and Best Practices

- o Ensure all components are compatible and tested together as a system to prevent structural failure .
- o Only qualified personnel familiar with electrical installation and safety standards should perform hoisting and installation .

Methods for hoisting plastic cable trays

- o Avoid using cable trays as walkways or ladders, as this can cause personal injury and damage the system .
 - o Properly balance bundles of trays at the center when lifting to prevent tipping or uneven load distribution .
- By following these methods, plastic cable trays can be hoisted safely and efficiently, ensuring long-term stability and compliance with installation standards.

On completion of cable tray/ ladder installation including fittings, inspect exposed finish. Remove burrs & construction

This method statement covers the process of installation of Cable Tray & Cable Laying works for complete project wherever work

Cable trays feature flexibility unmatched by conduit, as cables are easier to mark, remove and find in cable trays. Cable trays are

Learn everything about cable tray installation with our complete guide. Discover types, steps, and safety tips for

Below is a complete method statement for installation of cable tray, cable trunking and cable ladders in compliance with project

This document provides guidance on best practices for installing cable ladder and cable tray systems, including channel support

Step-by-step on-site guide: learn how to plan, mark, support, and install cable trays correctly, from shop

Below is the detailed cable tray installation method statement not only for cable tray but also applicable for GI ladder and trunking for

Cable Tray Installation Method Statement 1. Cable Tray Installation Cable trays should be installed in accordance with the latest

Types of Cable Typically Used in Cable Tray The purpose of a cable tray system is to support, route, and protect cable as part of the

Fiber Reinforced Plastic (FRP) Polyester and Vinyl Ester resin systems available Meet ASTM E-84 smoke density rating; Polyester

Cable Tray Technical Guide A practical guide to product selection and installation This guide for engineers and installers has been

Methods for hoisting plastic cable trays

This document outlines the method statement for installing cable trays at a work site. It details responsibilities, equipment needed,

Cable ladder and cable tray systems The following recommendations are intended to be a practical guide to ensure

This document provides procedures for installing cable trays according to international standards. It describes inspecting and storing

Common cable trays are made of galvanized steel, stainless steel, aluminum, or glass-fiber reinforced plastic. The material for a

Web: <https://www.kremgroup.co.za>

