

How to pull 185 cable onto the cable tray

Article Overview

To install a 185 mm² cable into a cable tray, plan the route, select the appropriate tray type and size, maintain proper spacing, and secure the cable to prevent damage and overheating.

Step 1: Plan the Route

Before installation, mark the cable tray route using a laser level or straight line to ensure alignment. Consider clearance, load capacity, and separation from other services to avoid interference and maintain safety standards .

Step 2: Select the Right Cable Tray

Choose a tray type suitable for large cables like 185 mm². Ladder trays are ideal for heavy cables because they provide airflow and easy cable entry, while perforated or solid-bottom trays may be used depending on load and environmental conditions . Ensure the tray material (aluminum, steel, or fiberglass) matches the installation environment .

Step 3: Verify Tray Size and Load Capacity

Calculate the tray width and depth based on the cable diameter and number of cables. Cable fill should not exceed 40% of the tray capacity to prevent overheating and allow future expansion . For a 185 mm² cable, check the tray's weight capacity and support spacing, typically 1.5 to 3 meters apart, to prevent sagging .

Step 4: Prepare the Tray

Install the tray on wall mounts (cantilever arms) or ceiling mounts (trapeze hangers) using appropriate fasteners. Connect tray sections with splice plates and ensure the tray is level and straight before tightening .

Step 5: Lay the Cable

Carefully place the 185 mm² cable into the tray, avoiding sharp bends. Maintain the minimum bend radius specified by the cable manufacturer to prevent insulation damage . Use cable rollers for long runs to reduce stress and kinks.

Step 6: Secure the Cable

Fix the cable at regular intervals using cable ties or clamps designed for large cables. Ensure spacing follows design standards to prevent movement, reduce heat buildup, and maintain system reliability . Label the cable

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for identification and future maintenance.

Step 7: Final Inspection

Check that the cable is properly seated, secured, and that the tray is free from sharp edges or obstructions. Verify compliance with relevant standards such as IEC 61537 or NEC Article 392 . By following these steps, a 185 mm² cable can be safely and efficiently installed in a cable tray, ensuring long-term performance and compliance with electrical standards.

Pull all cable diameters, one at a time, by hand. Hand feed cables around corners using large sweeping

The Engineering Galaxy - Engalaxy Full guide of cable tray installation and sizing - Part 1

This document outlines the pre-requirements and procedures for cable pulling and electrical connections, emphasizing the proper

Cable Handling, Storage & Installation flex cable handling, storage and installation. Important considerations in any cable installation

Learn the best practices for installing cables in trays. This guide covers essential steps,

This guide covers cable ladder systems, cable tray systems, channel support systems and associated supports intended for the

Designate one person to lead cable pull Check your position for any sharp edges, head bangers, pinch points ect. Pull cable in a

When drawing/pulling cables into ladder tray, the tray run between outlets or draw-in points should not have more than the equivalent

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

Cable trays are not raceways, but they are treated as a structural component of a facility's electrical system. Cable trays are a part of

This document provides the work method for cable pulling on the Maura Laboh Geothermal Power Plant Project. It outlines the

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In this video i am going to show you how to install cables on a tray properly. i see many

Explore our comprehensive DIY guide on installing medium-duty cable trays effortlessly. Enhance cable organization

By following these steps, you can ensure a safe, stable, and well-organized cable tray installation.

This procedure covers the method for all the cable pulling, electrical connections and terminations for cables running on cable

This method statement covers the site installation of the cable tray & ladders and the requirements of checks to be

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

