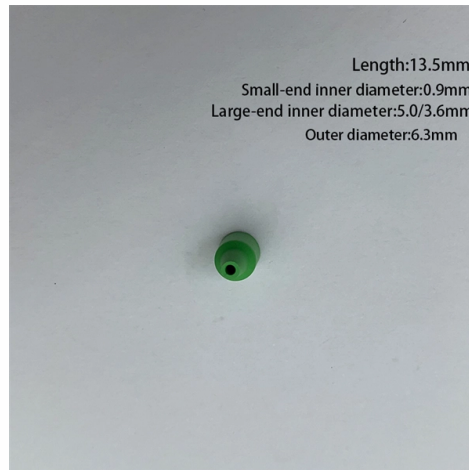


How to route a 185mm cable in a cable tray



Article Overview

A 185mm cable should be routed in a properly sized cable tray with adequate support, spacing, and bend radius to ensure safety, prevent overheating, and comply with standards.

Tray Selection and Sizing

For a large 185mm cable, select a ladder-type or ventilated trough tray that can accommodate the cable diameter and weight while allowing airflow for heat dissipation . Ensure the tray width and depth are sufficient so that the cable fill does not exceed 40% of the tray capacity, which prevents overheating and maintains long-term performance . Calculate the total cross-sectional area of the cable and compare it to the tray's allowable fill according to NEC 392.22 for mixed-use trays .

Support and Mounting

Install the tray using supports spaced appropriately, typically 1.5 to 3 meters apart, depending on the tray type and cable weight . For heavy cables like 185mm, shorter spacing (1.5m) is recommended to prevent sagging and mechanical stress . Use wall mounts, cantilever arms, or trapeze hangers as needed, ensuring the tray is level and straight before securing .

Cable Routing and Bend Radius

- Maintain the minimum bend radius specified by the cable manufacturer to avoid insulation damage. For large power cables, this is usually 10–15 times the cable diameter

Article Content

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Mastering cable tray installation is crucial for creating a safe, organised, and efficient cable management system. By

Cable Management Systems Explained for Your Needs

Explore the best cable management systems for safe, scalable cable routing — including trays, ladders, trunking, and more.

CABLE TRAY SYSTEMS GUIDE

Cable Tray Systems Guide HUBBELL Hubbell Wiring Device-Kellems and Hubbell Premise Wiring are divisions of Hubbell

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

Cable tray manual

INTRODUCTION The B-Line series Cable Tray Manual was produced by our technical staff. We recognize the need for a complete

Best Practice Guide to Cable Ladder and Cable Tray Systems

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

Cable Tray Raceway Fill and Load Calculations

Cable tray / raceway is integral part of any cable management system. Selection of cable tray is very critical because

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Cable Tray Capacity Calculator

A Cable Tray Capacity Calculator is a tool for electrical engineers involved in the installation and management of

Tray Installations

TRAY STRUCTURES There are many types of tray structures to organize and route cables, ducts, and MicroDucts. In OSP

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Many electrical systems employ cable trays. They route cables safely & efficiently. NEC defines minimum cable tray

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

Cable Routing

In the interest of safety and longevity, one cannot simply route electrical power and signal

5 Simplified Steps To Install a Cable Tray

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

Cable Tray Routing Layout II Explained with Practical Example

This video will help the power professionals to get a clear concept about the cable tray

Cable Tray Installation

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

Cable Tray Installation Procedure Guide

It describes inspecting and storing cable trays upon receipt, installing trays flat or vertically, fixing trays to structures, designing trays

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This guide covers the critical steps, from selecting the right electrical cable tray and performing accurate

Cable routing | Tips for proper cabling | Simply explained

Cable trays: Cable rails are flat structures that can hold several cables at the same time. They are often

Full guide of cable tray installation and sizing

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

Contact Us

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