

How far should cable tray hangers be installed

Article Overview

Cable tray hangers should generally be spaced 1.5 to 3 meters apart, with closer spacing at bends, vertical runs, and heavy loads to ensure stability and prevent sagging.

Horizontal Runs

For straight horizontal cable tray sections, hangers are typically installed at intervals of 3 to 5 meters, depending on the tray type, cable weight, and material stiffness . Cables should also be secured at the start, end, and at every bend to prevent undue mechanical strain . When cables are clipped directly to a surface, spacing should follow guidance based on cable diameter and type, ensuring no damage from the cable's own weight .

Vertical Runs

Vertical cable tray runs require closer hanger spacing, generally less than 2 meters, with cables secured at the top and every 1.5 meters along the run . For long vertical runs exceeding 32 meters, strain relief sections should be incorporated, offsetting the cable by at least 2 cable diameters to prevent displacement due to thermal expansion .

Bends and Corners

At corners, T-junctions, or changes in direction, hangers should be installed on each side of the bend, arranged symmetrically to maintain tray stability and prevent cable stress . The internal radius of the bend should not be less than the cable's minimum bending radius, and supports should be applied on either side of the bend .

Flexible Systems

For flexible cable tray systems, such as J-hanger installations, the distance between supports must be calculated based on cable stiffness and allowable deflection (typically 2% sag). The Heinhold method can be used for major projects to determine support spacing according to cable design, size, and material .

General Recommendations

- o Always use fire-resistant supports for all cable types to prevent premature failure .
- o Fixed supports should be installed at tray start, end, and at intervals along long spans to distribute weight and prevent sagging .
- o Ensure cables are laid straight and orderly, avoiding overlaps or protrusions, and all bends are securely

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fastened . By following these guidelines, cable tray systems will maintain mechanical integrity, comply with safety standards, and minimize stress on cables and terminations.

Explore the essential cable tray support spacing requirements for safe and efficient

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

A practical guide to product selection and installation This guide for engineers and installers has been developed by ABB as a

Installing a cable tray system requires careful planning to ensure it can support the weight of the cables and adheres

Learn how to fix excessive cable tray installation spacing. Discover tips and solutions to improve safety, performance,

All cables should therefore be suitably supported. When the cable is installed "clipped direct to a surface", then the clipping distance

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

Cable tray installation guidelines for industrial EPC projects with support spacing, earthing, routing, safety and real site

Cable trays support cables across open spans in the same way that roadway bridges support traffic. Cable trays can provide a safe

Center hung tray supports allow for quicker and easier cable installation by allowing cables to be deposited into tray systems from

The choice of method should be discussed with a local inspector. The best decision may be to extend only the cables, creating a

A professional guide to installing electrical cable tray systems per NEC Article 392. Covers support,

Posted on: 30/04/2025 Regarding cable management, the fixing and mounting you choose for your cable trays can make or break

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Get to know how to select and install cable tray hanging systems. This guideline addresses the load capacity,

Prior to installing cable in the cable tray, examine cable paths to ensure all areas are free of debris that may interfere with the cable"s

The design and cost of the cable tray is greatly affected by this designation. In order to determine the most appropriate and

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