

Spacing of cable tray supports inside electrical wells



Summary of Content

Cable tray supports should generally be spaced no more than 4 feet apart for standard installations, with adjustments based on cable type, tray design, and load.

General Guidelines

Cable trays, including ladder, solid-bottom, and wire mesh types, must be supported at regular intervals to prevent sagging, undue mechanical strain, or damage to the cables they carry. The National Electrical Code (NEC) recommends a maximum support spacing of 4 feet (1.2 meters) for typical tray installations, though this may vary depending on cable weight and tray type. BS 7671 emphasizes that cables must be supported to avoid mechanical stress and premature failure, particularly in fire conditions, and that supports should be made of fire-resistant materials.

Ladder Cable Trays

For ladder-type trays supporting large power cables, rung spacing is critical. Typical rung spacing ranges from 9 inches to 18 inches, with wider spacing (12–18 inches) often preferred to maintain proper cable bending radii and avoid field modifications. Supports for ladder trays should be installed at intervals that prevent excessive deflection of the rungs under the weight of the cables. Heavy-duty applications may require closer support spacing or additional structural reinforcement.

Solid-Bottom and Wire Mesh Trays



Article Content

A Guide to Installing and Supporting Electrical Cable Trays

Cable Tray Support Span: The distance between supports is a critical calculation. The cable tray support span must be determined

Cable Tray Installation Guidelines and Best Practices: Complete ...

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

Electrical Cable Tray Systems: Types, Installation, Fill Calculations ...

Cable trays must be supported at intervals not exceeding the manufacturer's spacing requirements, typically every 5

Cable Tray Design: Sizing, Fill, and Support Spacing

A commonly used rule of thumb for standard ladder tray under typical loading is support spacing on the order of every

Cable Tray Technical Guide A practical guide to product selection and ...

As per the NEC, the maximum allowable rung spacing is 9 inches (230 mm) when cable tray carries sin-gle-conductor cables of 1/0

Cable Tray Support Spacing: Key Guidelines Explained

Explore the essential cable tray support spacing requirements for safe and efficient installations. Learn NEC guidelines

Cable Tray Installation Rules (NEC 392) – Electrical Trader

Generally, standard trays require supports every 6 to 10 feet, while heavy-duty, long-span trays can handle distances

Cable Tray Support Spacing: Installation Distance Guide

This guide explains how cable tray support spacing is determined, what factors influence support distance, and how engineers

Cable tray support spacing calculator

Not sure how far apart to space your cable tray supports? Use our free cable tray support spacing calculator to find the precise spacing.

Cable Tray Systems: NEC Article 392 Installation Guide

Learn about ladder, solid bottom, ventilated trough, wire mesh, and channel trays, fill calculations, permitted cables, support

Contact Us

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