

Installation distance of horizontal cable tray supports



Overview

Support spacing for cable trays must align with the manufacturer's instructions, as outlined in NEC 392. Generally, standard trays require supports every 6 to 10 feet, while heavy-duty, long-span trays can handle distances of up to 20 feet between supports. The NEC has a requirement for ladder-type cable trays. Unlike a simple wire trough, which is typically a covered channel for shorter runs, cable trays provide a comprehensive support system for complex wiring paths over long. For 6 meter tray that would be approximately 1. A rung spacing of 6 to 9 inches (150 to 230 mm) is preferable when the cable tray cont d for instrumentation and control applications that require. Although BS 7671 touches on the subject of cable supports, it does not detail specifically what these support distances should be. Use this tool to estimate sloped section length, horizontal run requirement, cut marks, and installation feasibility.



Article Content

Apr 25, 2026

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

Cable tray length is selected based on the load to be supported, the distance between the supports (also referred to as the span), and handling and installation constraints.

Feb 07, 2026

INSTALLATION GUIDE

Supports for horizontal fittings should be located at a distance, no greater than 3000 mm (10") max from each end of the fitting on the attached ladder. Fitting supported within 30° of radius center point on ...

May 23, 2026

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 of up to 20 feet between supports. To determine the proper spacing, ...

Mar 14, 2026

Cable Support Distances

The length between support positions will change depending on the cable design, size, materials and weight. For example, an MDPE sheathed cable will be stiffer and therefore require a greater distance ...

Nov 14, 2025

Guide to cable support systems

The load capacity of the cable trays according to the support width can be read off in the diagram using load curves – here, shown as an example for a cable tray with the tray widths 100 to 600 mm.

Jan 25, 2026

Cable Tray Offset Calculator | Vertical, Horizontal & Compound Offset

Calculate horizontal, vertical, or compound cable tray offsets based on bend angle, offset distance, and available installation space. Use this tool to estimate sloped section length, horizontal run ...

Nov 25, 2025

Cable Tray Support Spacing: Key Guidelines Explained

The NEC requires that cable trays must be supported by members at an interval specified by the cable tray manufacturer, but not more than 5 feet for horizontal runs to support the weight of ...

Feb 20, 2026

GUIDE CABLE TRAYS TECHNICAL

If it has excellent electrical continuity and is integrated in the installation's equipotential bonding system, a metal cable tray reduces the coupling's impact and thus contributes to good EMC of the electrical ...

Mar 04, 2026

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 based on the manufacturer's load capacity chart and the total anticipated ...

Jan 13, 2026

NEC Article 392 Guide: Ensuring Compliance for Cable Tray Systems

According to the regulations under NEC 392.30, these supports have to be put at a consistent distance to ensure the tray is straight and stable. When a tray is bent due to excessive ...

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