

Spacing of cable tray tee supports



Article Overview

Cable tray tees should be supported at intervals that prevent undue stress on cables, typically with supports every 6 feet for tees, in line with NEC 392 and manufacturer guidelines.

General Tee Support Guidelines

Cable tray tees, which branch off from the main tray to equipment or devices, require proper support to maintain structural integrity and prevent mechanical stress on the cables. Unsupported spans for tees should generally not exceed 6 feet (1.8 meters); if the span is longer, additional supports are required to prevent sagging and strain on the conductors (Electrical Trader, NEC 392) .

Support Spacing Considerations

- **Manufacturer Specifications:** Always consult the tray manufacturer's load capacity chart, as spacing may vary depending on tray type, material, and cable weight .
- **Straight Runs vs Tees:** Standard straight trays typically require supports every 6 to 10 feet, while heavy-duty or long-span trays can extend up to 20 feet between supports. Tees, however, are shorter and carry branching loads, so 6 feet is a common maximum span .
- **Vertical and Angled Runs:** Cables should be fastened to transverse members to maintain stability and prevent shifting. Hanging rod supports for vertical runs should be at least 8 mm in diameter .

Additional Installation Practices...

Article Content

May 13, 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

Nov 01, 2025

Cable Support Distances

Cable Support Distances Although BS 7671 touches on the subject of cable supports, it does not detail specifically what these

May 07, 2026

Cable Tray Design and Standards Guide

Tray dimensions, hole spacing, and support spacing are defined. Trays and accessories must be hot dip galvanized per the listed

Oct 28, 2025

Cable Tray Installation and Cable Handling Method Statement

Cable Tray Installation Method Statement 1. Cable Tray Installation Cable trays should be installed in accordance with the latest

Oct 06, 2025

Precautions for Cable Tray Installation

Cable Tray Installation Guide The correct installation of cable trays is crucial for establishing a reliable and efficient cable system. It

Aug 29, 2025

GUIDE CABLE TRAYS TECHNICAL

NEMA VE 1-2017 Specifies requirements for metal cable trays and associated fittings designed for use in accordance with the rules

Jan 26, 2026

B-Line series Cable Tray Design Considerations

B-Line series straight cable tray sections allow for the structural supports to be spaced up to 6m (20 ft) for steel cable ladder and up

May 02, 2026

Cable tray

In the electrical wiring of buildings, a cable tray system is used to support insulated electrical cables used for power distribution,

Sep 14, 2025

Document DICOS

trough or ventilated cable tray: A fabricated structure consisting of integral or separate longitudinal rails and a bottom having

May 31, 2026

Full cable tray systems specification document

B. Cable tray systems are defined to include, but are not limited to straight sections of [ladder type] [trough type] [solid bottom type]

Mar 31, 2026

Cable tray manual

One of the most important features of cable tray is that tray cable can easily be installed in existing trays if there is space available.

Jun 16, 2026

TECHNICAL AND SIZING DATA

The cable ampacity installed in solid tray will be similar to cable installed without spacing in accordance with CEC Rule 12-1210 (3).

Jun 16, 2026

26 05 36 Cable Trays for Electrical Systems

Install cable tray as a complete system, including fasteners, hold-down clips, support systems, barrier strips, adjustable horizontal

Feb 05, 2026

Cable Tray Installation Guidelines

The document outlines steps for laying cables, including installing supports, fixing the tray, laying cables with proper spacing, and

Jun 10, 2026

Cable Tray Installation Guidelines for Engineers

Cable trays shall not be used to support any rigging for cable installation Guidelines for Engineers. Cable clamps or straps suitable

Jul 19, 2026

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

Jan 27, 2026

How Proper Cable Tray Spacing and Support Improve System Lifespan

Support spacing of 1.2m to 1.5m for ladder and perforated trays Increased supports near bends, tees, and reducers

Nov 11, 2025

Best Practice Guide to Cable Ladder and Cable Tray Systems

The radius for cable ladder and cable tray fittings is usually determined by the bending radius and stiffness of the cables installed on

May 07, 2026

Cable tray support spacing: the span that decides your real load rating ...

A cable tray's published NEMA load class is only valid at the span it was tested at. Support spacing on the actual site

Oct 08, 2025

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

SOLID-BOTTOM CABLE TRAY Providing additional cable protection, solid-bottom cable tray is sometimes preferred to support and

Mar 22, 2026

GUIDE CABLE TRAYS TECHNICAL

In accordance with its continuous impro-vement policy, Legrand reserves the right to change the specifications and illus-trations

May 29, 2026

Criteria for Sizing, Designing, Installing and Supporting of Cable-Tray ...

9.3 Tray Rigidity: For pipe racks, building steel, or tee-structure mountings for which support spacing is determined by others, tray

Feb 08, 2026

Cable Support Distances

The length between support positions will change depending on the cable design, size, materials and weight. For example, an MDPE

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