

Requirements for the use of cable tray hangers



Article Overview

Cable tray hangers must comply with standards ensuring mechanical support, fire resistance, and safe spacing, as outlined in BS 7671, IEC 61537, and NEC Article 392.

UK Regulations (BS 7671 and 18th Edition Wiring Regulations)

In the UK, BS 7671 and the 18th Edition Wiring Regulations require that cables are adequately supported to prevent mechanical strain and premature collapse, especially in the event of a fire (Regulation 521.10.202) . Key points include:

- Material requirements: Cable supports must be fire-resistant; non-metallic clips or ties cannot be the sole means of support for cables clipped directly to surfaces or suspended under trays .
- Spacing: Support intervals depend on cable type and diameter, with guidance provided in IET Selection and Erection Guidance Notes. Horizontal and angled runs have specific spacing rules to prevent sagging or mechanical stress .
- Supplementary supports: Plastic fixings may be used but must be supplemented with metal clips, saddles, or ties to meet compliance .
- Safety considerations: Supports must not obstruct access or egress routes and should maintain cable integrity during fire events .

International Standards (IEC 61537)

IEC 61537 provides global guidance for metallic cable tray systems ...

Article Content

Apr 04, 2026

Beama Best Practice Guide | Installation Of The System | Cable ...

Cable ladders, cable trays and their supports should be strong enough to meet the load requirements of the cable management

Feb 21, 2026

SECTION 26 0529 HANGERS AND SUPPORTS FOR ELECTRICAL

Section 26 0536 - Cable Trays for Electrical Systems: Additional support and attachment requirements for cable tray. Section 26

Sep 11, 2025

Cable Tray Installation Rules (NEC 392) - Electrical Trader

Only cables specifically rated for tray use - such as Type TC (Tray Rated) or Type MC (Metal-Clad) - are allowed.

May 12, 2026

SECTION 26 05 29

Support parallel runs of horizontal raceways together on trapeze-type hangers. Use 3/8-inch diameter or larger threaded steel rods

Jun 08, 2026

Document DICOS

Attaching a channel cable tray by using the method illustrated in Figure 3-88 maintains the electrical requirements, and the bolted

Sep 14, 2025

NEC Article 392: Cable Tray Systems

This document describes regulations for cable trays from the National Electrical Code. It defines cable trays and their components. It

Aug 18, 2025

Cable Trays

Cable trays are systems that distribute bundles of insulated electrical cables from power supplies to electrical equipment, consisting

Jun 28, 2026

A Guide to Installing and Supporting Electrical Cable Trays

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

Oct 22, 2025

BEAMA Best Practice Guide to Cable Ladder & Cable Tray Systems

This document provides guidance on best practices for installing cable ladder and cable tray systems, including channel support

Sep 20, 2025

Best Practice Guide to Cable Ladder and Cable Tray Systems

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

Sep 05, 2025

Typical Design Philosophy of Cable Trays for Power Plant

Cable tray system shall be used for laying of MV and LV power, control, instrumentation and special cables in the

Dec 28, 2025

Best Practice Guide to Cable Ladder and Cable Tray Systems

This publication is intended as a practical guide for the proper and safe* installation of cable ladder systems, cable tray systems,

Apr 30, 2026

Best Practice Guide to Cable Ladder and Cable Tray Systems

Trapeze hangers (Figures 8) are suitable for use with cable ladder and cable tray, supported by threaded rods hung from ceiling

Apr 18, 2026

FactSheet

Electrical Safety Hazards of Overloading Cable Trays According to the 2005 National Electrical Code® (NEC), a cable tray system is

Jul 30, 2025

Best practice guide to cable ladder and cable tray systems

The following recommendations are intended to be a practical guide to ensure the safe and proper installation of

Oct 15, 2025

Cable Support Distances

Section 522.8 (Other Mechanical Stresses (AJ)) in that document provides requirements for cable support.

Jan 21, 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]

Nov 12, 2025

NEC Article 392 Guide: Ensuring Compliance for Cable Tray Systems

Strong hangers or brackets should be used to ensure that cable trays do not fall or hang. According to the regulations

Mar 13, 2026

FAQ | Cable Tray Institute

Question: Are there any requirements for separation and segregation of various types of cables (i.e. Power, instrumentation, signal,

Aug 10, 2025

QCS 2010: Cable Tray Specifications | PDF | Cable | Screw

Tray components must be accurately formed to tolerances with rounded edges. Cable trays installed in hazardous environments

Sep 25, 2025

Cable Tray Support Spacing: Key Guidelines Explained

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

Mar 16, 2026

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

Cable Tray Technical Guide A practical guide to product selection and installation This guide for engineers and installers has been

Jul 04, 2026

GUIDE CABLE TRAYS TECHNICAL

This standard specifies the requirements and test methods for cable trays, cable ladders, supports and their accessories to ensure

Apr 11, 2026

CABLE TRAY

Supports for cable trays should provide strength and working load capabilities sufficient to meet the load requirement of the cable

May 21, 2026

Rev 7 to Procedure SAG.CP3, "Seismic Design Criteria for Cable Tray ...

A cable tray hanger is classified as a _ seismic Category I structure, and therefore, it shall be adequately designed for the effect of

Contact Us

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