

Requirements for cable fixing distance in cable trays



AI Overview

Cables in trays should be secured at regular intervals: every 3–5 meters for horizontal runs and every 1.5 meters for vertical runs, with proper tray spacing and clearances to ensure safety, airflow, and maintenance access.

Horizontal Cable Runs

Cables in horizontal tray sections should be secured at the start, end, and at every 3–5 meters along straight runs. Additional securing is required at bends to maintain order and prevent stress on the cables. Binding ties should not exceed 1.5 meters apart, ensuring even tension and preventing sagging. For flexible systems, a small initial offset (typically 2%) is recommended to accommodate thermal expansion and prevent displacement.

Vertical Cable Runs

For vertical tray sections, cables should be secured at the top and every 1.5 meters. Long vertical runs exceeding 32 meters should include strain relief sections, often by offsetting the cable by at least two cable diameters or including short horizontal sections to relieve tension. This prevents excessive stress and potential cable failure.

Tray Spacing and Clearances

- Parallel trays: Maintain at least 0.6 meters between trays at the same height for...

Article Content

Dec 02, 2025

IEC Standard for Cable Tray: Complete Technical Guide

This standard outlines the construction requirements, testing methods, and performance

Dec 30, 2025

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

Dec 16, 2025

Cable supports and the requirements of BS 7671

The guidance issued within the On-Site Guide (OSG) published by the IET is helpful in deciding on the nature of

May 06, 2026

Best Practice Guide to Cable Ladder and Cable Tray Systems

Cable ladders and cable trays should be mounted far enough off the floor or roof to allow the cables to exit through the bottom of the

Dec 28, 2025

Core Principles for Electrical and Instrumentation Cable

3. Optimal Path and Route Planning Straightforward Pathways: Cable trays should follow the shortest

Jul 04, 2026

Method Statement installation of Cable Trays and Ladders

This method statement covers the site installation of the cable tray & ladders and the requirements of checks to be

Jun 19, 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

May 06, 2026

Cable tray manual

INTRODUCTION The B-Line series Cable Tray Manual was produced by our technical staff. We recognize the need for a complete

Nov 04, 2025

Installation of Cable Tray, Trunking And Accessories

2. Purpose This method statement for the Installation of Cable Tray, Trunking, and Accessories shows and explains

Mar 23, 2026

Cable Tray Support Spacing: Key Guidelines Explained

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

Jul 17, 2026

Safely Installing, Maintaining and Inspecting Cable Trays

Cable trays are not raceways, but they are treated as a structural component of a facility's electrical system. Cable trays are a part of

Apr 08, 2026

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

Oct 19, 2025

Technical Guidelines for Cable Tray Installation and

Cable tray installation must comply with specific technical standards to ensure electrical safety, system

Nov 19, 2025

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

This guide for engineers and installers has been developed by ABB as a practical reference regarding cable tray characteristics,

Aug 08, 2025

Cable fixing and the 18th Edition IET Wiring Regulations

When fixing cables to exposed horizontal surfaces, the spacing of metal fixings should be approximately every 300mm.

Jan 21, 2026

Product Advice: Bracket Spacing Considerations | Armaflo

Bracket Spacing Considerations: At Armaflo, we understand the importance of optimizing efficiency and cost-effectiveness in every

Aug 27, 2025

Cable Support Distances

This provides distances for cables based on their diameter and cable type. Prysmian was instrumental in providing this information

Mar 08, 2026

A Guide to Installing and Supporting Electrical Cable Trays

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

Sep 27, 2025

Cable Tray Installation Rules (NEC 392) – Electrical Trader

Here's what you need to know: Cable Types: Only use conductors rated for open-air environments, such as Tray

Mar 14, 2026

How to Solve Excessive Cable Tray Installation Spacing?

Learn how to fix excessive cable tray installation spacing. Discover tips and solutions to

Jan 26, 2026

NEC Standards for Cable Trays: Grounding, Fill Capacity

This article provides a comprehensive framework that governs various aspects of cable tray installations, including

Nov 14, 2025

18th Edition: How Are Cable Supports Changing?

This will require metal fixings: plastic cable ties and cable trays are not considered appropriate, neither is aluminium

Sep 24, 2025

Best Practice Guide to Cable Ladder and Cable Tray Systems

This guide covers cable ladder systems, cable tray systems, channel support systems and associated supports intended for the

Dec 17, 2025

Cable Tray

All changes of direction must be supported in the immediate vicinity of the joints (distance ≤ 150 mm) by an appropriate supporting

May 15, 2026

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

Jan 15, 2026

CABLE TRAYS GENERAL INFORMATION AND INSTALLATION

Using cable trays as walkways can cause personal injury and also damage cable tray and installed cables. Performances of cable

Jan 31, 2026

B-Line series Cable Tray Design Considerations

As an industry leader in cable tray, Eaton offers one of the widest ranges of cable management solutions available in the market

Nov 13, 2025

Cable Tray Spacing Standards for Installation and Safety

Discover the essential cable tray spacing requirements for safe and efficient installation.

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://ntmmgroup.co.za>

Email: sales@ntmmgroup.co.za

Phone: +27 82 471 2596

Address: Unit 7, Optic Park, 24 High-Tech Lane, Century City, Cape Town,
7441, South Africa

This document is for informational purposes only. Specifications subject to
change without notice.

