

Fixing distance requirements for cable tray brackets



Article Overview

Cable tray brackets should be spaced according to cable type, load, and environmental conditions, typically ranging from 1.5 to 3 meters for standard trays, following IEC 61537 and BS 7671 guidance.

General Guidelines

The support distance is the spacing between the centers of two adjacent brackets or support elements. Proper spacing ensures that cables are not subjected to undue mechanical strain and that the tray system remains stable under load and environmental conditions. For standard cable trays, typical support intervals are:

- Light-duty trays: 1.5–2 meters
 - Medium-duty trays: 2–2.5 meters
 - Heavy-duty trays: up to 3 meters
- These distances may vary depending on the tray material (steel, stainless steel, aluminum), tray type (ladder, solid-bottom, ventilated), and cable load.

Standards and Compliance

- BS 7671 requires that cables be supported at appropriate intervals to prevent damage from their own weight and to avoid mechanical strain on terminations.
- IEC 61537 specifies mechanical strength, load testing, and installation compatibility for cable trays, including support spacing based on tray type and environmental ex...

Article Content

Mar 13, 2026

Installation of Cable Tray, Trunking And Accessories

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

Feb 05, 2026

Cable Support Distances

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

Apr 28, 2026

NEMA Standards Publication VE 2-2006

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

Feb 04, 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

Dec 21, 2025

910533-3_EN

Cable tray types, supports (types and spacing) and securing systems are selected and designed taking into consideration the weight

Dec 01, 2025

Cable Tray

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

Nov 01, 2025

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

Dec 11, 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

Apr 20, 2026

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 05, 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 19, 2025

Product Advice: Bracket Spacing Considerations

Traditionally, it has been recommended to install brackets approximately every 1 to 1.5 meters along the length of the cable tray.

Feb 22, 2026

GUIDE CABLE TRAYS TECHNICAL

In accordance with its continuous improvement policy, Legrand reserves the right to change the specifications and illustrations

Jul 30, 2025

Best Fixing and Mounting Options for Cable Trays | CMW

Posted on: 30/04/2025 Regarding cable management, the fixing and mounting you choose for your cable trays can make or break

May 02, 2026

Cable Tray SHIB NAL

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

Sep 06, 2025

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

May 11, 2026

Proper Bracket Spacing for Cable Installations | CMW

Learn how much spacing should be between brackets when installing cables in walls, ceilings, and tight spaces. Tips

Aug 10, 2025

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

Apr 24, 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

Mar 17, 2026

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

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

Apr 01, 2026

Important design considerations for cable ladder and tray systems:

In some of our recent articles for Professional Electrician, I've looked at installation requirements for conduit and

Nov 19, 2025

Cable tray manual

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

Feb 08, 2026

Mastering Cable Tray Installation | Step-by-Step Guide for a Seamless ...

Conclusion Mastering cable tray installation is crucial for creating a safe, organised, and efficient cable management

Mar 11, 2026

TECHNICAL GUIDE

This standard defines configurations for the mechanical tests to be performed on cable trays, brackets, hangers and other

Mar 10, 2026

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,

Jul 28, 2026

INSTALLATION GUIDE

When drawing/pulling cables into ladder tray, the tray run between outlets or draw-in points should not have more than the equivalent

Contact Us

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