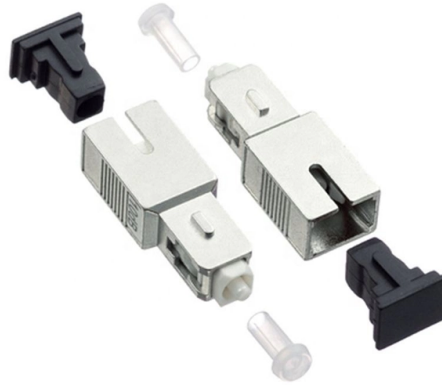


800 Cable tray hanging spacing



Article Overview

For an 800 mm wide cable tray, typical hanging spacing is 1.5 to 2 meters for horizontal runs, with closer spacing required at bends or heavy load sections.

Horizontal and Vertical Support Spacing

For standard horizontal runs, cable trays are generally supported at intervals of 1.5 to 2 meters, depending on the tray material, load, and cable type . Vertical runs follow similar principles, but for long vertical sections exceeding 32 meters, strain relief sections should be incorporated to prevent excessive tension on the cables . For extremely long vertical runs over 100 meters, additional tension-relieving measures, such as short horizontal offsets of at least 1 meter, are recommended .

Rod and Bracket Specifications

Hanging rod supports should be at least 8 mm in diameter to ensure stability and prevent sagging . Brackets or hangers must be securely fastened to the building structure, and spacing may need to be reduced near bends, tees, or heavy cable concentrations to maintain structural integrity .

Bends and Cable Ties

At bends, supports should be placed on either side of the bend, and the internal radius should not be less than the minimum bending radius of the cables . Cable ties within the tray should be spaced no more than 1.5 meters apart to maintain even tension and prevent cable movement

Article Content

Aug 21, 2025

Section 27 05 36 Cable Tray for Communications Systems

3.2.2 All material to properly install the cable tray shall be provided. The cable tray system shall accommodate the weight of the

Jun 21, 2026

B-Line series Cable Tray Design Considerations

Is your cable tray system optimized for safety, dependability, space and cost savings? Cable tray (or cable ladder) systems are a

Jun 26, 2026

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.

Aug 22, 2025

CABLE TRAY

Prior to installing cable in the cable tray, examine cable paths to ensure all areas are free of debris that may interfere with the cable's

Jul 05, 2026

Safety Distance Between Cable Trays: What You Need

Learn the right safety distance between cable trays and ventilation or drainage systems.

Aug 11, 2025

Complete cable tray manual for electrical engineers and designers

How to design cable tray? Most projects are roughly defined at the start of cable tray design. For projects that are not

Apr 10, 2026

Cable Tray Support Spacing: Key Guidelines Explained

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

May 09, 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

Sep 07, 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

Jan 15, 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.

Jan 14, 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

Jun 01, 2026

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

May 31, 2026

Cable Tray Spacing Standards for Installation and Safety

Discover the essential cable tray spacing requirements for safe and efficient installation. Learn key standards,

Jul 13, 2026

B-Line series Cable Tray Design Considerations

When supporting small diameter multi-conductor control and instrumentation cables, 6, 9, or 12-inch rung spacings should be specified.

Sep 12, 2025

Cable Support Distances

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

Nov 17, 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

Jun 18, 2026

Precautions for Cable Tray Installation

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

Jan 04, 2026

Best Practice Guide to Cable Ladder and Cable Tray Systems

Where products of five metre lengths or above are packed in bundles, they shall be supported with a minimum of three timber

Apr 25, 2026

Cable Tray Sizing & Load Calculations Made Simple

Step 2: Choose Tray Type and Width For heavy power cables or long spans, ladder trays typically perform best. For

Sep 24, 2025

Ultimate Guide to Cable Tray Hanging Systems: Choice and Installation

Get to know how to select and install cable tray hanging systems. This guideline addresses the load capacity,

Jan 20, 2026

GUIDE CABLE TRAYS TECHNICAL

The SWL test representing the hanger bending moment is conducted on a standard length of 800 mm. Force (F) is applied at the end

Feb 03, 2026

Cable Tray Width Selection for Installations with 600 Volt Single

Cable Tray Width Selection for Installations with 600 Volt Single Conductor Cables National Electrical Code (NEC) Section 318-11

Mar 02, 2026

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

7.1 Cable tray system designs shall normally be aluminum ladder-type NEMA 20A tray with 225 mm (9 in) rung spacing with and

Aug 02, 2025

Open Ceiling Office Cable Management: 2026 Guide

BICSI and NEC 800.24 set the foundational rules: maximum 5-foot spacing on horizontal cable supports, with tighter 3

Jul 20, 2026

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

Jan 02, 2026

Cable tray support spacing calculator

Not sure how far apart to space your cable tray supports? Use our free cable tray support spacing

Oct 03, 2025

Cable Tray Sizing

Learn cable tray sizing with accurate width and dimension calculations. Avoid common mistakes for efficient cable

Contact Us

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