

Distance of steel cable tray supports

Overview

Typical support spacing for steel cable trays ranges from 1.5 meters to 6 meters depending on tray size, material gauge, and load conditions. Although BS 7671 touches on the subject of cable supports, it does not detail specifically what these support distances should be. 8 (Other Mechanical Stresses (AJ)) in that document provides requirements for cable support. Clause 522-08-04 Where conductors or cables are not supported. The safety of your people and the reliability of your electrical system depend on proper cable tray support spacing. Proper installation can significantly reduce electromagnetic interference, prevent fire hazards, and improve overall efficiency. This article provides an in-depth. Is your cable tray system optimized for safety, dependability, space and cost savings?

Cable tray (or cable ladder) systems are a popular alternative to electrical conduit systems, as they have an outstanding record for dependable service, design flexibility and cost savings in commercial and. eferred to support and protect numerous small instrumentation and control cables. Because of its closed design, this type of tray should e used in applications where there is minimal risk of heat generation and buildup.



Article Content

Oct 16, 2025

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 cable ladder or cable tray.

Jul 08, 2026

Cable Tray Spacing Standards for Installation and Safety

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

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 of Canadian Electrical Code, Part I and the National Electrical Code®

Apr 08, 2026

Cable Tray Support Spacing: Key Guidelines Explained

Explore the essential cable tray support spacing requirements for safe and efficient installations. Learn NEC guidelines for perforated, ladder, and wire mesh trays.

Feb 27, 2026

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

Cable tray length is selected based on the load to be supported, the distance between the supports (also referred to as the span), and handling and installation constraints.

Mar 07, 2026

Cable Support Distances

From this figure the length between support positions can be calculated for the defined deflection (sag) percentage. The length between support positions will change depending on the cable design, size, ...

Mar 18, 2026

Cable Tray Size Chart and Selection Guide

Typical support spacing for steel cable trays ranges from 1.5 meters to 6 meters depending on tray size, material gauge, and load conditions. Aluminum trays, having different ...

Dec 06, 2025

Guide to cable support systems

The load capacity of the cable trays according to the support width can be read off in the diagram using load curves – here, shown as an example for a cable tray with the tray widths 100 to 600 mm.

Jun 26, 2026

B-Line series Cable Tray Design Considerations

The support span is the distance of cable tray between supports. Your cable tray length must always be longer than or equal to the support span you have selected.

Apr 21, 2026

CABLE TRAY SYSTEMS GUIDE

Commonly called the Load Class, this defines the load-carrying capability of the tray for a specific support span distance. The design and cost of the cable tray is greatly affected by this designation.

Contact Us

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

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

Email: sales@iiss.co.za

Phone: +27 63 174 2895

Address: Unit 8, Innovation Park, 15 Rivonia Road, Sandton, Johannesburg, 2196, South Africa

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

