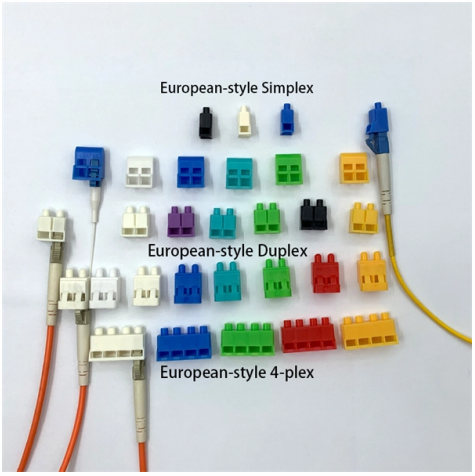
Specifications and dimensions of vertical supports for cable trays



Overview

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.

Key Takeaways

Vertical cable tray supports are designed according to DIN 4102 Part 12, with widths of 200–600 mm, maximum cable weight of 20 kg/m, and fastening spacing up to 1. 2 m.

Standard Dimensions and Material

Vertical cable ladders and trays, such as the STL, STM, and STIC series, are available in widths ranging from 200 mm to 600 mm and are manufactured from galvanized or stainless steel to ensure durability and corrosion resistance. The rail height and material thickness are specified to support the intended cable load while maintaining structural integrity. These supports can be mounted directly to walls or via internal/external wall connection angles (WWU 150/8 or WWI 80) with a maximum fastening spacing of 1.

2 m.

Load Capacity and Support Requirements

The maximum permissible cable dead weight for these vertical supports is 20 kg/m. For continuous vertical runs exceeding 3500 mm, additional support is required to prevent cable kinking or slipping. This can be achieved through a lateral offset of at least 300 mm or a sealed strain relief housing tested for fire protection.

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Rung and Tray Specifications

Cable ladder rungs are spaced to accommodate cable bending radii and prevent drooping. For large power cables, rung spacing of 9 inches or wider is recommended, while smaller instrumentation cables may use 6–9 inches (150–230 mm) spacing. Pre-punched holes on side rails allow for easy attachment of accessories without drilling, and solid or ventilated tray bottoms can be selected based on cable type and environmental requirements.

Compliance and Standards

Vertical supports are designed to meet DIN 4102 Part 12 for fire-resistant installations (E30, E60, E90) and are compatible with cables that have valid general test certificates from building authorities. Horizontal test results are applicable to vertical arrangements if proper support is provided at transition points.

Summary of Key Specifications

Widths: 200–600 mmMaterial: Galvanized or stainless steelMaximum cable weight: 20 kg/mFastening spacing: ≤ 1. 2 mRung spacing: 150–230 mm (instrumentation), ≥ 9 inches (power cables)Support for vertical runs >3500 mm: lateral offset ≥ 300 mm or strain relief housingMounting: Direct wall or via connection angles (WWU 150/8, WWI 80)Compliance: DIN 4102 Part 12, fire-resistant classes E30, E60, E90These specifications ensure structural stability, fire safety, and proper cable management for vertical cable tray installations in industrial and commercial environments.

Article Content

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.

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®

CABLE TRAY SYSTEMS GUIDE

Hubbell''s NEXTFRAME® Ladder Tray is the effective and widely used cable runway that supports and delivers bundles of cable between cabinets, racks, and closets, along walls, and suspended from

Vertical Cable Ladders

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The STL, STM and STIC vertical cable ladders meet the exact specifications of DIN 4102 Part 12, such as the rail height and the width of the cable ladder.

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

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.

Vertical Support Bracket-Pregalv (2D,,8W,,2L)

Fold-over tabs secure tray: no additional hardware needed es 2 supports for tray widths of 18" or more. Use on 6" and wider tray. This product meets the material restrictions of Article 4 of the RoHS

LEGRAND CABLE TRAYS TECHNICAL GUIDE

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®

12-SDMS-06

Cable tray supports shall have a maximum of 6 m spacing on horizontal run and 2.4 m spacing on the vertical runs. However, when the tray system is supported from building structure with rods, brackets

Cable Tray Dimensions Guide: Standard Sizes, Tray Types & Sizing

Explore standard sizes by tray type, understand width and depth limits, and see how to calculate and choose compliant cable tray sizes for real projects.

SWIFTS CABLE TRAY

With the new Swiftclip, lengths and fi ttings of Swifts cable tray can be fi tted without the use of specialist tools – making it even faster, safer and easier to fi t.

Cable Tray Size Calculation for Project Engineers

Cable trays are essential for organizing and supporting electrical and communication cables, as well as assuring safe installations. Choosing the

Cable Tray Specifications and Sizes | PDF | Sheet Metal

The data sheet provides specifications for standard cable trays and accessories. Standard cable trays are 2.5 meters in length with a maximum thickness deviation of 0.01mm and dimensional deviation of

MGX Accelerated Computing Rack and Trays Specification Revision

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5. Overview This specification describes and documents a rack and tray infrastructure design that supports blind mate liquid cooling, intra-rack tray interconnectivity zones, higher bus bar power, rack

Steel Cable Tray Fabrication & Accessories for Cable Management in

Get premium steel cable trays and accessories from Build Matt in Uganda. We offer bespoke steel fabrication services for ladder, perforated, and solid bottom trays with custom supports and

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 shall be constructed from heavy duty GRP or stainless steel. The document

Cable Tray Design and Standards Guide

2. Design and construction requirements specify that cable trays must be ladder or perforated type depending on cable, fabricated from hot rolled steel sheet. Tray dimensions, hole spacing, and

PDF document

PDF document PDF document Read this PDF document online, download the original file, and browse related details on device.report. Additional coding instructions can be found in the Article File chapter

CABLE TRAY SYSTEMS GUIDE

Some applications may require the cable tray to support the weight of a single, dead object in addition to the cable loads. Specifications typically require this to be applied at the midpoint of the span between

Related Video Reference

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

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