

Cable tray screw size specification table

Article Overview

Cable trays are typically fastened using M6 truss-head bolts (FRS) and combination nuts, with screw quantity depending on tray width and side height.

Recommended Screw Sizes and Quantities

- o Screw Type: FRS truss-head bolts with combination nuts
- o Diameter: M6
- o Drill Hole Size: ≥ 7 mm in tray rail and base
- o Material: Stainless steel (A2) or as specified for corrosion protection
- o Temperature Range: -20°C to 120°C for standard installations

Screw Quantity Guidelines

Tray Width	Side Height	Screws per Connector / Joint Plate
Up to 300 mm	60 mm	4 screws per connector
300 mm	60 mm	3 screws per joint plate
400 mm or more	Any	Joint plate required to avoid transverse bending; use M6 truss-head bolts
100-600 mm	35-110 mm	Fittings fastened with double clamps (DOP A2) or FRS bolts; vertical bends and 35 mm side height fittings are exceptions and can only be screwed on

Installation Notes

- o Joint plates are optional for tray widths up to 300 mm but mandatory for widths of 400 mm or more to prevent bending .
- o Covers may come with pre-mounted turn buckles or without fastening material; installation depends on the type of fitting (T-piece, add-on tee, bends).
- o Edge protection strips should be used at cut edges if no joint plates or end plates are mounted to prevent cable damage .
- o Always follow manufacturer-specific guidelines, as screw type and quantity may vary depending on the cable tray system and environmental conditions . This table and guidance ensure proper mechanical stability and compliance with IEC 61537 standards for low-voltage cable tray systems .

Bond both FlameStopper Fittings and Cable Trays together by attaching proper size wire to ground screw on fitting tops, through

Tray components must be accurately formed to tolerances with rounded edges. Cable trays installed in hazardous environments

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NEMA VE 1-2017 Specifies requirements for metal cable trays and associated fittings designed for use in accordance with the rules

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

Screwed connections have been designed to withstand the mechanical stresses during the installation and normal use and will not

Cable Support Systems are well designed to provide necessary support for cable trays, cable ladders and trunkings. Cable supports

3.1 Cable trays & accessories shall be of two types, namely ladder type and perforated type. Technical particulars are specified in

If cable trays are sized for future cables, specify provisions for penetrations with sleeves through fire-rated partitions or use

IEC Standard for Cable Tray: Complete Technical Guide The International Electrotechnical

For the purpose of assembling the various wire cable tray, only fast coupling systems or screw-based (CE25/CE30) systems must

Explore standard sizes by tray type, understand width and depth limits, and see how to

NEMA Standards Publication VE 2-2006 Cable Tray Installation Guidelines Published by: National Electrical Manufacturers

Wire basket cable tray systems are defined to include, but are not limited to straight sections of continuous wire mesh, field formed

This document contains calculations to determine the appropriate size of cable trays between an LV room and electrical room based

In this guide, we walk through what tray cables are, the meaning of AWG sizes, a detailed tray cable size chart, key

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