

Article Overview

Cable tray hangers are support elements designed to securely suspend cable trays, typically made of steel or stainless steel, and must comply with standards such as DIN EN 61537, ANSI/NFPA 70, and ASTM specifications.

Materials and Construction

Cable tray hangers are generally constructed from steel or stainless steel, with various galvanization or coating options to enhance corrosion resistance, especially in industrial or outdoor environments . They are designed to support the weight of cable trays and the cables they carry, ensuring mechanical stability and safety.

Types of Hangers

Common types of cable tray hangers include:

- o Wall brackets: Fixed to walls to support horizontal tray runs .
- o Suspended supports: Rods or straps from ceilings to hold trays at a required height .
- o Center suspensions: Support trays from a central point, often used for long spans .
- o Stand-off brackets: Fully slotted for on-site adjustment, allowing flexibility in tray width and positioning .

Design and Load Considerations

Hangers must be selected based on:

- o Tray type: Ladder, trough, solid bottom, or channel trays .
- o Load capacity: Must accommodate the combined weight of the tray and cables.
- o Span and spacing: Determined by tray type, material, and load; typical spacing ranges from 1.2 m to 3 m for ladder trays.
- o Environmental factors: Exposure to moisture, chemicals, or temperature extremes may require specific coatings or stainless steel construction .

Installation Features

- o Adjustability: Many hangers are slotted or feature adjustable risers to allow precise alignment and leveling .
- o Fastening methods: Can include nuts and bolts, or fast-fit systems like Swiftclip for quicker installation .
- o Compliance: Hangers and supports must meet relevant standards such as ANSI/NFPA 70, ASTM A123/A653/A1011/A1008/B633, and NEMA VE 1 for metallic cable tray systems .

Cable tray and hanger specifications

Accessories

Hangers may be used in conjunction with:

- o Mounting plates for junction boxes or devices .
- o Barrier strips, covers, or cable protection rings to enhance safety and organization .
- o Fittings such as bends, tees, and risers to accommodate changes in routing direction or elevation .

Summary

Cable tray hangers are critical components in cable management systems, providing secure support and alignment for trays. Proper selection involves considering material, load, span, adjustability, and compliance with standards, ensuring safe and efficient installation in industrial, commercial, or infrastructure projects .

Length (W): 200. ng to tray height. Depth (D): 1.2mm, 1.5mm, Material: Mild steel sheet / PO steel sheet.
Constructed Type: MIG

In the electrical wiring of buildings, a cable tray system is used to support insulated electrical cables used for power distribution,

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

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

SFSP produces a variety of products ranging from cable management systems; cable trays, cable ladders, basket trays, trunkings

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

These guidelines will be particularly useful for the design, specification, procurement, installation and maintenance of these systems.

EATON B-LINE SERIES GUIDE SPECIFICATION Section 26 05 36 - CABLE TRAYS FOR ELECTRICAL SYSTEMS 26 05

Wire Mesh Cable Tray Installation Notice: Bends, Risers, T Junctions, Crosses and Reducers can be made

Cable tray and hanger specifications

from wire mesh cable

We provide flexible installation options, including single and multi-conductor tray cables that can be installed in free air, raceways, or

Many electrical systems employ cable trays. They route cables safely & efficiently. NEC defines minimum cable tray

Cable Tray Technical Guide A practical guide to product selection and installation This guide for engineers and installers has been

Resources for wire basket tray system installations Our wire basket tray models, videos, and literature help you plan and specify

Cable Trays and Accessories are designed to meet most requirements of cable and electrical wire installations and comply to local

Submittals for cable ladder and tray Eaton's submittal builder tool for B-Line series cable ladder and tray allows you to easily filter,

Our cable tray design considerations guide details key factors to consider when designing cable tray systems for industrial and

Web: <https://bssoda.pl>

