National Standards for Cable Tray Hangers



Overview

Cable tray supports must be designed and installed per IEC 61537, NEMA VE 2, NEC, and ISO standards, with proper spacing (1.5–3 m), alignment, earthing, fire protection, and structural...

Key Takeaways

Cable tray hangers must comply with NEMA VE 1/VE 2, UL 568, IEC-61537, and NEC guidelines to ensure safe, reliable support of electrical cables. Overview of StandardsNEMA VE 1 and VE 2 provide the primary guidance for metal cable tray systems, including ladder, ventilated, solid-bottom, and wire mesh trays.

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E 1 specifies manufacturing requirements, load/span class designations, and associated fittings, while VE 2 focuses on installation practices, including hanger spacing, support methods, and load considerations (Cable Tray Institute).

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L 568 covers performance requirements for nonmetallic (fiberglass) cable trays, ensuring that hangers and supports maintain structural integrity under load and environmental conditions. IEC-61537 is an international standard that specifies requirements and tests for both metal and nonmetallic cable tray systems, including hangers, to ensure proper support, accommodation of cables, and resistance to mechanical and environmental stresses.

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C (NFPA 70, Article 392) provides installation requirements for cable trays, including hanger spacing, secure attachment, and load ratings. It ensures that hangers maintain proper support for power and control cables while preventing sagging or mechanical damage.

Key Requirements for Cable Tray Hangers

Material and Corrosion Resistance: Hangers are typically made of steel, stainless steel, or aluminum, with galvanization or protective coatings to resist corrosion in industrial or outdoor environments. Load and Span Ratings: Hangers must support the weight of the cable tray and its contents, with spacing determined by tray type, load class, and manufacturer specifications. Ladder trays often require hangers every 4–6 feet, while solid-bottom trays may have closer spacing.

Attachment and Stability: Hangers should be securely anchored to structural elements (walls, ceilings, or floors) and allow for thermal expansion and vibration without compromising cable integrity. Compliance with Codes: Installation must follow NEC, NEMA, and UL guidelines to ensure safety, including proper grounding and separation of power and communication cables.

Practical Considerations

Environmental Conditions: For outdoor or corrosive environments, stainless steel or coated hangers are recommended. Instrumentation and Control Applications: Smaller, sensitive cables may require additional protection or closer hanger spacing to prevent mechanical stress. Inspection and Maintenance: Periodic checks ensure hangers remain secure, corrosion-free, and capable of supporting the intended load.

By adhering to these standards, cable tray hangers provide safe, durable, and code-compliant support for electrical and communication systems in industrial, commercial, and institutional installations.

Article Content

Cable tray manual

These documents: ANSI/NEMA VE-1, Metal Cable Tray Systems; NEMA VE-2, Cable Tray Installation Guidelines; and NEMA FG-1, Non Metallic Cable Tray Systems, are an excellent industry resource in

NEMA Standards Publication VE 2-2018

Attaching a channel cable tray by using the method illustrated in Figure 3-88 maintains the electrical requirements, and the bolted mechanical connection while providing a practical method for dropping

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Cable Tray Supports installation

Cable tray supports must be designed and installed per IEC 61537, NEMA VE 2, NEC, and ISO standards, with proper spacing (1.5–3 m), alignment, earthing, fire protection, and structural...

Guide to cable support systems

Four different mesh cable tray types are available, depending on the requirements, area of application and cable quantity. The innovative Magic connection system of the GRM and G-GRM mesh cable

SECTION 26 05 36 CABLE TRAYS FOR ELECTRICAL SYSTEMS

NFPA 70 - National Electrical Code; National Fire Protection Association; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and

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

This guide for engineers and installers has been developed by ABB as a practical reference regarding cable tray characteristics, installation, and requirements.

NEMA BI 50016-2024

Cable tray system design shall 269 comply with National Electrical Code® (NEC®) Article 392, NEMA BI-50015 (formerly VE 1), and NEMA 270 FG 1, and follow safe work practices as described in NFPA

NEC Standards for Cable Trays: Grounding, Fill Capacity

This article provides a comprehensive framework that governs various aspects of cable tray installations, including the types of cables that are deemed acceptable for use, requirements for

A Guide to Installing and Supporting Electrical Cable Trays

The National Electrical Code (NEC) is the ultimate authority for any cable tray installation. Specifically, NEC Article 392 governs the use, installation, and

SECTION 26 05 29 HANGERS AND SUPPORTS FOR ELECTRICAL

NFPA 70 - National Electrical Code; National Fire Protection Association; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and

Cable Tray Offset Calculator

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Cable Tray Offset Calculator Compute precise cable tray offset geometry, run lengths, and diagonal travel dimensions for tray routing elevation changes. Supports multiple engineering units for NEC

CABLE TRAY

This standards publication was developed by the NEMA Metal Cable Tray and Nonmetallic Cable Tray Sections. Section approval of the standard does not necessarily imply that all section members voted

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Solar Photovoltaic Cable Management: Best Practices for DC-String Cables

Alternatives to Standard Plastic Cable Ties A variety of alternative methods can be used to support DC-string wiring, including metallic clips, hangers, and cable tray concepts.

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The National Electrical Manufacturers Association (NEMA) also publishes three consensus standards that apply to the proper manufacture and installation of cable trays: ANSI/NEMA-VE 1-1998, Metal

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