Cable specifications and models for cable tray supports



Overview

Guide to cable support systems It specifies the requirements and testing for cable support systems, which are intended to support and house cables, as well.

Key Takeaways

Cable tray support systems are designed to securely route and support electrical and communication cables, with various models including ladder trays, ventilated trays, and mesh trays, supported by brackets, hangers, and mounting elements.

Types of Cable Trays

Cable trays are primarily categorized into: Ladder Trays: Feature side rails with rungs for mechanical support, ideal for heavy or long cable runs, providing excellent ventilation and strain relief. Ventilated or Perforated Trays: Solid bottom trays with perforations for airflow, suitable for medium-weight cables and reducing heat accumulation. Mesh or Wire Mesh Trays: Flexible, lightweight trays for complex routing, often used in data centers or areas requiring frequent modifications.

Support Elements

Cable trays require mechanical support to maintain stability and load capacity: Wall Brackets: Attach trays to vertical surfaces. Suspended Supports: Hang trays from ceilings using rods or straps. Center Supports: Provide intermediate support for long spans.

Mounting Plates and Accessories: Used for junction boxes, device supports, or cable protection.

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Material and Finish

Materials: Steel, stainless steel, or aluminum. Surface Treatments: Galvanization, powder coating, or corrosion-resistant finishes to withstand environmental conditions. Load Ratings: Defined by tray width, thickness, and span between supports, often referred to as the Load Class.

Standards and Compliance

Cable tray systems conform to international and national standards: DIN EN 61537: Defines cable support systems and their installation.

NEMA V

E 1-2017: Covers metal cable tray systems.

U

L and ANSI/NFPA 70: Ensure safety and electrical compliance. Models and Manufacturer SolutionsABB T&B Cabletray: Offers ladder and ventilated trays with CAD and BIM support for design integration. Hubbell NEXTFRAME® Ladder Tray: Modular ladder tray system with various sizes, fittings, and mounting options for data centers and industrial applications.

Eaton B-

Line Series: Metallic cable ladder systems designed for high strength-to-weight ratio, with submittal tools for straight sections, fittings, and accessories. Legrand Cable Trays: Range of trays with CE marking and compliance with European directives, including accessories like covers and barrier strips.

Design Considerations

Span and Load: Determine support spacing based on cable weight and tray type. Routing: Horizontal and vertical bends, T-pieces, crossovers, and reductions allow flexible cable management. Environmental Factors: Consider exposure to water, oil, chemicals, or mechanical forces like wind and snow.

Integration with Building Systems: Ensure compatibility with ceilings, walls, floors, and equipment racks. By selecting the appropriate tray type, material, and support system, engineers can ensure safe, efficient, and code-compliant cable installations for industrial, commercial, or data center environments.

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Article Content

Guide to cable support systems

It specifies the requirements and testing for cable support systems, which are intended to support and house cables, as well as other electrical resources in electrical installations or communication systems.

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Resources for Cable tray and ladder systems

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Full cable tray systems specification document

The work covered under this section consists of the furnishing of all necessary labor, supervision, materials, equipment, tests and services to install complete cable tray systems as shown on the

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

In designing supports for a cable tray system, consideration should be given to the loads associated with future cable additions and any additional loading that may be applied to the cable tray system (e.g.,

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