

Complete List of Cable Tray Support Specifications and Models

Article Overview

Cable tray support systems include ladder trays, solid-bottom trays, ventilated trays, mesh trays, riser systems, wide-span systems, and suspension/support accessories.

Types of Cable Tray Supports

1. Ladder Trays

- o Feature tubular steel or aluminum rungs for mechanical support and strain relief.
 - o Suitable for long cable runs, allowing smooth bends and easy cable management.
 - o Examples: Hubbell NEXTFRAME(R) Ladder Tray, Niedax Allround Cable Ladder .
- ### 2. Solid-Bottom Trays
- o Provide full support for cables, protecting them from dust and debris.
 - o Ideal for sensitive or low-voltage cables.
- ### 3. Ventilated Trays
- o Have perforated or slotted bottoms to allow airflow and heat dissipation.
 - o Common in data centers and industrial installations.
- ### 4. Mesh Cable Trays
- o Constructed from wire mesh, offering flexibility and lightweight support.
 - o Suitable for underfloor, ceiling, or wall-mounted installations.
- ### 5. Riser Systems
- o Vertical cable support systems for multi-floor installations.
 - o Can be fixed directly to walls or integrated with other tray systems.
- ### 6. Wide-Span Systems
- o Designed for heavy loads and large cable bundles.
 - o Often used in industrial plants, tunnels, and power stations.
- ### 7. Suspension and Support Accessories
- o Include Gripple suspension systems, J-bolt kits, yoke clamps, and mounting brackets.
 - o Facilitate ceiling, wall, or floor mounting and allow modular configuration .

Materials and Finishes

- o Steel, stainless steel, and aluminum are common.
- o Galvanized, powder-coated, or painted finishes improve corrosion resistance.
- o Load class and span distance determine the mechanical strength and cost .

Standards and Guidelines

- o NEMA VE1 and VE2 provide definitions, manufacturing, and installation standards.
- o UL 568 covers nonmetallic cable trays, including fiberglass options.
- o NEC Articles 250, 318, 392, and 800 regulate installation and grounding requirements .

Manufacturer Examples

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- o Hubbell: NEXTFRAME(R) Ladder Tray, modular system for floors, walls, ceilings, and racks .
- o Niedax: E-KLIPS, Allround cable ladders, riser systems, wide-span systems, mesh trays .
- o OBO Bettermann: Industrial cable support systems with fittings, mounting elements, and accessories . This list covers the major cable tray support models and system types, including their materials, mounting options, and accessories, providing a comprehensive reference for industrial, commercial, and data center installations.

Cable trays are capable of supporting all types of wiring such as high voltage power lines, power distribution cables, sensitive control

Technical specifications All calculations and data are based on 36 in. wide cable trays with tray supported as simple spans with

SOLID-BOTTOM CABLE TRAY Providing additional cable protection, solid-bottom cable tray is sometimes preferred to support and

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

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

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Cable tray systems are defined to include, but are not limited to straight sections of of [ladder type] [vented bottom type] [solid bottom

Cable tray systems, including trays, supports, fittings and other materials, are generally much less expensive than conduit wiring

All design characteristics, specifications, tolerances and similar information are subject to change without notice. The information

Hubbell's NEXTFRAME® Ladder Tray is the effective and widely used cable runway that supports and delivers bundles of cable

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key factors to consider

Not all cable trays are equivalent. The mechanical and electrical characteristics, tests, certifications, overall quality management,

Eaton

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

Cable tray is considered to be a system. It must provide continuous support for cables, and the electrical continuity of the cable tray

Fitting and accessories. with the same or different width of the cable run. All fittings are available in sizes and types corresponding to

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