US Cable Tray Specifications and Models Table



Overview

Description: This product category covers metal cable trays and metal cable tray systems intended for field assembly and for use in accordance with Article 392 of NFPA 70.

Key Takeaways

US cable trays are available in ladder, ventilated, solid-bottom, and wire mesh types, with materials including steel, stainless steel, and aluminum, designed to meet NEMA and UL standards.

Overview of Cable Tray Types and Applications

Tray TypeMaterialCommon Sizes (Width x Depth)Load Class / RatingTypical ApplicationsNotesLadder TraySteel, Aluminum, Stainless Steel6"–36" wide, 2"–12" deepLight, Medium, Heavy Duty (based on rung spacing and support span)Industrial, commercial, data centersProvides excellent ventilation and support for large bundles; allows easy cable installation and maintenance Ventilated TraySteel, Aluminum6"–24" wide, 2"–6" deepLight to Medium DutyOffice buildings, telecom roomsPerforated bottom allows airflow to reduce heat buildup; supports medium cable loads Solid-Bottom TraySteel, Aluminum6"–24" wide, 2"–6" deepLight to Medium DutySensitive electronics, control roomsProtects cables from dust, debris, and electromagnetic interference; may require covers for full protection Wire Mesh / Basket TraySteel, Stainless Steel4"–24" wide, 2"–6" deepLight DutyData centers, low-voltage cablingLightweight, flexible, easy to cut and route; ideal for retrofit or complex pathways Material and Finish OptionsSteel: Pre-galvanized or hot-dip galvanized for corrosion resistance; economical and widely used.

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Stainless Steel: AISI 316L grade for high corrosion resistance, especially in chemical or coastal environments. Aluminum: Lightweight, corrosion-resistant, suitable for indoor and outdoor applications; often used in corrosive environments. Standards and ComplianceNEMA VE 1: Defines cable tray types, load ratings, and installation guidelines in the US.

U

L 568: Certification for cable tray systems ensuring safety and performance. Load Class: Determined by rung spacing and support span; affects maximum cable weight per linear foot.

Manufacturer-

Specific Notes

Eaton B-Line Series: Offers metallic ladder and tray systems with CAD/BIM content for design; emphasizes strength-to-weight ratio and reduced structural steel supports. Hubbell NEXTFRAME®: Ladder tray system with 16-gauge steel tubing, modular design, and multiple mounting options for floors, walls, ceilings, and racks. Legrand: Provides ventilated and solid trays with UL certification; emphasizes compliance with electrical and mechanical standards.

AB

B: Offers steel trays with pre-galvanized, hot-dip galvanized, and stainless steel options; suitable for industrial and commercial environments.

Design Considerations

Rung Spacing: Typically 6–9 inches for ladder trays to support cable bundles and maintain bend radius. Support Span: Determines load capacity; longer spans require heavier-duty trays or additional supports. Environmental Factors: Corrosive environments may require stainless steel or aluminum; indoor dry locations can use pre-galvanized steel.

Cable Type: Power, control, and data cables may require different tray types and covers to prevent interference or overheating. This table and overview provide a comprehensive reference for selecting US cable tray systems, including types, materials, sizes, load ratings, and manufacturer-specific models suitable for industrial, commercial, and data center applications.

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Article Content

GUIDE CABLE TRAYS TECHNICAL

NEMA VE 1-2017 Specifies requirements for metal cable trays and associated fittings designed for use in accordance with the rules of Canadian Electrical Code, Part I and the National Electrical Code®

CABLE TRAY SYSTEMS GUIDE

Hubbell''s NEXTFRAME® Ladder Tray is the effective and widely used cable runway that supports and delivers bundles of cable between cabinets, racks, and closets, along walls, and suspended from

Cope Ladder Master Spec

PDF file

Full cable tray systems specification document - eaton

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

26 05 36 Cable Trays for Electrical Systems

Description: This product category covers metal cable trays and metal cable tray systems intended for field assembly and for use in accordance with Article 392 of NFPA 70.

CABLE TRAY SYSTEMS

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

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

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

Product Catalogue Cable Management Solutions

With over 20 years of experience T&B Cable Tray provides a complete solution in cable management systems including design, manufacturing and technical support by offering a complete solution for

Cable Tray Design and Components Guide

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Tables list standard sizes and specifications for straight and bent cable trays, including width, height, thickness, materials, and finishes. Drawings show different bent cable tray types like 90 degree and

Resources for Cable tray and ladder systems

Submittals for cable ladder and tray Eaton''s submittal builder tool for B-Line series cable ladder and tray allows you to easily filter, select and download straight section, fitting and accessory submittals.

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Standing Desk | MAGNUS Pro Metal Desk | Secretlab US

Full-length cable management tray Forget everything you know about cable management, just drop all your cables into Secretlab MAGNUS Pro. Our

Full cable tray systems specification document

B. Cable tray systems are defined to include, but are not limited to straight sections of [ladder type] [trough type] [solid bottom type] [channel type] cable trays, bends, tees, elbows, drop-outs, supports

Cable tray manual

Nearly every aspect of cable tray design and installation has been explored for the use of the reader. If a topic has not been covered sufficiently to answer a specific question or if additional information is

CABLE TRAY SYSTEMS GUIDE

CONCENTRATED STATIC LOADS: Some applications may require the cable tray to support the weight of a single, dead object in addition to the cable loads. Specifications typically require this to be

Cope Ladder Master Spec

Cable Tray Hold Downs – Cable tray supported on standard 1-5/8 inch strut shall be held down with US Tray style hold-down brackets. Such as the 9131 series for ladder type cable trays and 90XX series

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Cable Tray Dimensions Guide: Standard Sizes, Tray Types & Sizing

Explore standard sizes by tray type, understand width and depth limits, and see how to calculate and choose compliant cable tray sizes for real projects.

Cope Wire Basket Master Spec

Wire basket cable tray supports shall be center support hangers, trapeze hangers or wall brackets as manufactured by the US Tray Division of Allied Tube & Conduit Corporation, [or engineer approved

Related Video Reference

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

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