Specifications and Models of New Type Cable Trays



Overview

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

Key Takeaways

New type cable trays are available in ladder, trough, solid bottom, channel, and NATO-style models, with specifications covering materials, finishes, dimensions, load ratings, and compliance with international standards.

Cable Tray Types and Models

Tray TypeMaterialFinishTypical WidthsTypical HeightsFeatures / NotesLadder TypeSteel, Stainless SteelHot-dip galvanized, Pre-galvanized, Powder coated100–600 mm50–150 mmOpen design for ventilation, reduces overheating, easy cable access, suitable for industrial and marine use Trough TypeSteel, Stainless SteelHot-dip galvanized, Powder coated100–600 mm50–150 mmSemi-enclosed, protects cables from dust and debris, supports medium loads Solid Bottom TypeSteel, Stainless SteelHot-dip galvanized, Powder coated100–600 mm50–150 mmFully enclosed, maximum protection against mechanical damage, suitable for sensitive installations Channel TypeSteel, Stainless SteelHot-dip galvanized, Powder coated50–300 mm25–100 mmCompact, lightweight, ideal for small cable runs or support of single circuits NATO / Distribution TraysSteel, Stainless SteelHot-dip galvanized200–600 mm50–150 mmDesigned for military or industrial applications, modular, flexible routing, high durability Key SpecificationsStandards Compliance: ANSI/NFPA 70 (NEC), ASTM A123, A653, A1011, A1008, B633, NEMA VE 1 & VE 2.

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European C

E marking applies for Legrand products. Load Ratings: Vary by tray type, width, and span; ladder trays typically support higher loads due to rung spacing and open design. Rung Spacing: Commonly 50–300 mm depending on cable type and load requirements.

Fitting Radii: Bends, elbows, tees, and drop-outs designed to maintain cable integrity and minimize stress. Accessories: Clamps, brackets, hanger rods, splice plates, expansion joints, and covers for environmental protection.

Installation and Usage Notes

Field Verification: All dimensions and routing must be verified on-site before installation. Ease of Installation: Many modern trays are designed for quick assembly without specialized tools, reducing labor costs. Environmental Suitability: Hot-dip galvanized or stainless steel trays are suitable for indoor, outdoor, and marine environments.

Safety Considerations: Open or perforated designs reduce overheating risk; solid trays protect against mechanical damage.

Resources for Detailed Drawings and CAD Files

Eaton Full Cable Tray Specification Document: Provides detailed product data, submittal drawings, and installation guidelines.

Apex

Tray Download Center: Offers manuals, CAD files, and technical specifications for various tray models. Legrand Technical Guide: Includes mechanical and electrical characteristics, certifications, and compliance information. Eurostrut Product Listings: Covers industrial, marine, and NATO-type trays with dimensions and material options.

This table and specifications provide a comprehensive overview for selecting, designing, and installing new type cable trays across industrial, commercial, and specialized 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®

Resources for Cable tray and ladder systems

Our cable tray design considerations guide details key factors to consider when designing cable tray systems for industrial and commercial applications. Browse or download the cable tray catalog for

Cable trays

We offer a wide range of cable tray systems to support tubing, electrical cables and instrumentation. Our cable trays are produced in fit for purpose materials like

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

Cable Tray Technical Guide A practical guide to product selection and installation This guide for engineers and installers has been developed by ABB as a practical reference regarding cable tray

Product Catalogue Cable Management Solutions

Delivering engineered solutions in cable management ABB manufacturers a comprehensive range of cable tray systems and solutions including cable ladder, perforated tray, channel tray and metal

Cable Trays Selection Guide: Types, Features,

Start with this definitive resource of key specifications and things to consider when choosing Cable Trays.

Cable Tray

Explore precision-engineered Wire Mesh Tray built from high-quality welded steel, offering a safe, reliable pathway for low-voltage and data cables with a patented load-optimized design.

SWIFTS CABLE TRAY

With the new Swiftclip, lengths and fi ttings of Swifts cable tray can be fi tted without the use of specialist tools – making it even faster, safer and easier to fi t.

Cable Tray Technical Specifications | PDF | Galvanization ...

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Cable Tray Technical Specifications The document provides a technical data sheet for cable trays including ladder and perforated types. It lists specifications for material, thickness, dimensions,

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 GUIDE

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 applied at the midpoint of the span between

Resources for Cable tray and ladder systems

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

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

SOLID-BOTTOM CABLE TRAY Providing additional cable protection, solid-bottom cable tray is sometimes preferred to support and protect numerous small instrumentation and control cables.

Types of Cable Trays – Advantages, Applications and Sizes

Explore the types of cable trays, their advantages, applications, and standard sizes. Learn how they improve cable management and support various industries.

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

Types of Cable Trays: Ladder, Perforated, Basket, Solid

Explore all types of cable trays—ladder, perforated, basket, solid, and channel. Learn their uses, materials, pros, cons, and key differences.

IEC Standard for Cable Tray: Complete Technical Guide

Each tray type comes with design and load parameters as guided by IEC 61537. Tray selection depends on factors like cable type, environment, span

Cable Tray Specification Guide | Types, Materials, Sizes

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Understanding Cable Tray Types This section delves into the various configurations available for supporting and organizing electrical conduits. Each type offers distinct advantages and is suited for

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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EU project coordination: Parque das Nações, Lisbon, Portugal

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

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