Specifications for Flexible Cable Tray Profiles

Overview

Choose from our selection of flexible cable trays, including over 475 products in a wide range of styles and sizes. Same and Next Day Delivery.

Key Takeaways

Flexible cable tray connections are designed to accommodate tight bends, variable routing, and secure grounding while supporting tray-rated cables in industrial and commercial installations.

Mechanical and Dimensional Specifications

Flexible cable trays, such as Eaton's Flextray system, are field-adaptable and can be cut or bent on-site to meet installation requirements. Key mechanical specifications include: Bend Radius: Flexible trays allow tighter bends than rigid trays, accommodating finely-stranded (Class K) tray cables with smaller bend radii for efficient routing. Width and Length: Trays are available in a wide range of widths and lengths to match cable bundles, with modular sections that can be connected using UL Classified splices.

Load Capacity: Determined by tray width, material thickness, and support span; flexible trays are designed to support both power and control cables without excessive sag. Material and Finish: Common materials include steel or aluminum with finishes suitable for indoor, outdoor, or corrosive environments. Finishes may include powder coating, galvanized, or stainless steel options.

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Electrical and Grounding Specifications

Flexible cable trays often serve as an equipment grounding conductor. Grounding can be achieved by: Using the recommended number of UL Classified splices at tray connections and cut points. Running an appropriately sized ground wire alongside the tray and connecting it at each section and cut, as recommended by NEMA VE-2 standards.

Cable CompatibilityTray-Rated Cables (TC): Flexible trays are compatible with TC, TC-ER, PLTC-ER, and ITC-ER cables, which can be installed directly in trays without conduit. Flexibility: Finely-stranded cables allow tighter bends and easier terminations, reducing labor and material costs compared to rigid conduit installations. Environmental Resistance: Many tray-rated cables are resistant to UV, oil, and direct burial, making them suitable for exposed runs and hazardous locations.

Installation Considerations

Modular Connections: Flexible trays can be connected using splices, clamps, or brackets to form continuous runs. Support: Trays can be mounted to floors, walls, ceilings, or equipment racks, with proper spacing to maintain load capacity. Safety Edges: Some systems feature “T” weld safety edges to protect cables and installers during installation.

Summary

Flexible cable tray connections provide versatile routing, secure grounding, and compatibility with tray-rated cables, making them ideal for industrial automation, data centers, and complex installations. Proper attention to bend radius, load capacity, grounding, and cable type ensures safe and efficient cable management while reducing installation time and cost.

Article Content

Flexible Cable Trays | McMaster-Carr

Choose from our selection of flexible cable trays, including over 475 products in a wide range of styles and sizes. Same and Next Day Delivery.

Product Specifications: CABLE TRAY

FDG CABLE TRAY ng; Power, Data, and Audio Visual. A quick and easy system to install without the need for specialised tools or equipment, makes it a first choice for Comm solution that works for your

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

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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.,

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®

Cooper B-Line

Flextray Cable Tray and Accessories are available in a wide variety of finishes to meet the environmental or aesthetic requirements of customer installations. Use the list below to find the finish

CABLE TRAY SYSTEMS

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

P31CABLE TRAY

Available on the main routing accessories, this new innovative system facilitates the accessories installation, regardless of the cable tray lengths that are used (automatic, male/female or traditional

Flextray wire mesh basket | Instrumentation and signal

Flextray wire mesh basket is ideal for commercial and data center cable management, providing a flexible means of adapting your tray to fit your job-site

Cable Tray for PDF

This type of cable tray provides maximum ventilation to heat producing cable such as power cables. Specific designs can be manufactured to meet special requirements.

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

LEGRAND CABLE TRAYS TECHNICAL GUIDE

In accordance with its continuous improve-ment policy, Legrand reserves the right to change the specifications and illustrations without notice. All illustrations, descrip-tions and technical information

Full cable tray systems specification document

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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

Mesh cable tray systems

4 1 Product description OBO mesh cable tray systems stand out through their high load capacity and good ventilation. They can be used universally. The mesh cable trays are suitable for the installation

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

Perforated Cable Tray Specifications

The document details the specifications and manufacturing quality plan for perforated cable trays and covers ordered by K Kumar Raja Projects. It includes technical particulars such as dimensions,

Product Specifications: CABLE TRAY

FDG CABLE TRAY FDG Cable Tray is designed to continuously support cable systems including; Power, Data, and Audio Visual. A quick and easy system to install without the need for specialised

KwikRail cable tray specification Document

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

Flextray wire basket section of NEMA cable tray

The FlextrayTM system is a flexible, field-adaptable way to manage cables throughout your project. The tray can be cut and bent to the needs of the installer on the jobsite, allowing cable runs to be

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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