Cable tray model and specification table diagram



Overview

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.

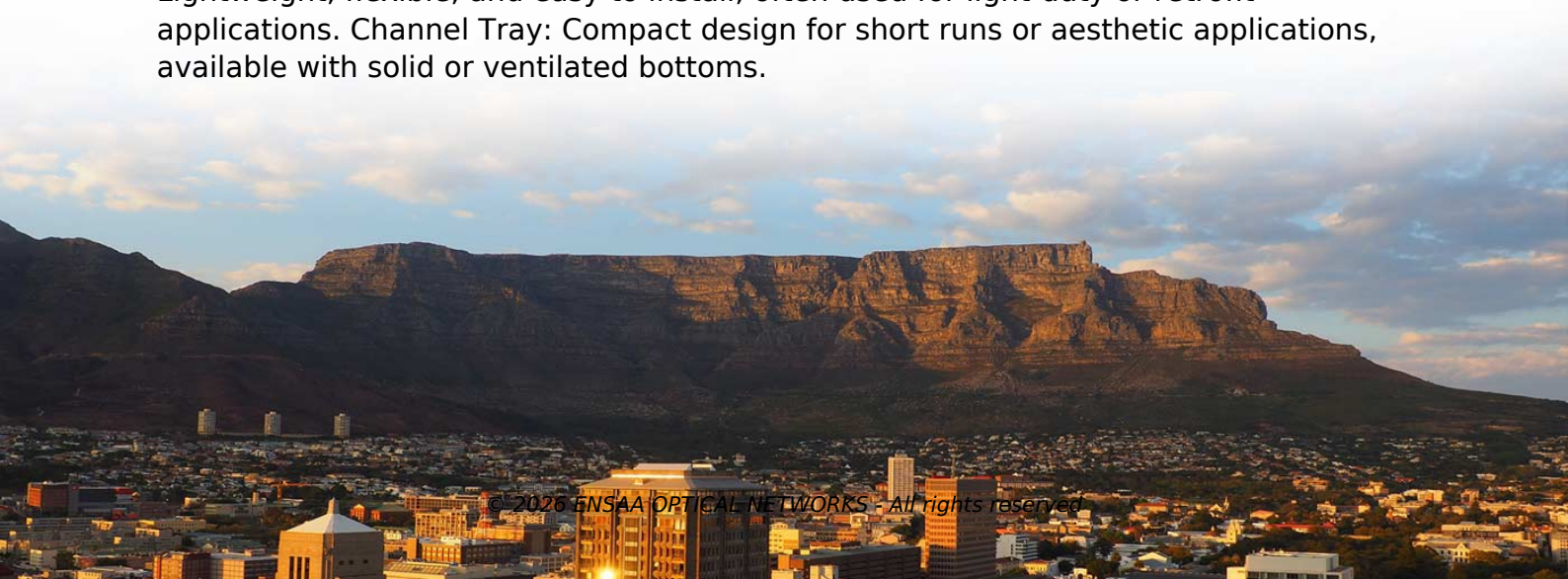
Key Takeaways

Cable trays come in various types, materials, and load capacities, with detailed specifications and model charts available from manufacturers like Legrand, Eaton, ABB, Hubbell, and ApexTray.

Types of Cable Trays

Ladder Tray: Features side rails with rungs, ideal for heavy-duty cables and long spans. Provides excellent ventilation and easy cable access (Hubbell NEXTFRAME® Ladder Tray). Solid Bottom Tray: Offers full protection for cables, suitable for sensitive instrumentation or areas with minimal heat buildup.

Ventilated Tray: Perforated or slotted bottom allows airflow to prevent overheating, commonly used in industrial and commercial applications. Wire Mesh Tray: Lightweight, flexible, and easy to install, often used for light-duty or retrofit applications. Channel Tray: Compact design for short runs or aesthetic applications, available with solid or ventilated bottoms.



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Materials and Finishes

Steel: Pre-galvanized or hot-dip galvanized for corrosion resistance. Stainless Steel: AISI 316L for high corrosion resistance, especially in chlorinated or marine environments. Aluminum: Lightweight, corrosion-resistant, suitable for indoor and outdoor use.

Fiberglass Reinforced Plastic (FRP): High resistance-to-weight ratio, excellent for corrosive environments.

Load Ratings and Dimensions

Cable trays are rated by load class, which defines the maximum load for a given support span. Rung spacing: Typically 6–9 inches (150–230 mm) for ladder trays to support cables and maintain bend radius. Widths and depths vary by manufacturer; common widths range from 50 mm to 600 mm or more, with depths from 25 mm to 150 mm.

Accessories and Fittings

Elbows, tees, reducers, and covers are available to create continuous cable pathways. J-bolt kits and mounting hardware allow attachment to floors, walls, ceilings, or equipment racks. Solid covers or ventilated covers can be added for protection or airflow management.

Standards and Compliance

Cable trays comply with UL, NEMA, CE, and other national standards depending on the region. Proper installation ensures safety, prevents overheating, and maintains cable integrity.

Resources and Model Charts

Legrand Technical Guide: Provides detailed specifications, materials, and compliance information.

Eaton B-

Line Series: Offers CAD/BIM files, submittal builder tools, and downloadable catalogs for straight sections, fittings, and accessories.

AB

B Cable Tray Technical Guide: Includes material selection, finishes, and environmental considerations. Hubbell NEXTFRAME®: Features modular ladder tray systems with load class charts and installation guidelines.

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Apex

Tray Download Center: Provides manuals, CAD files, and specifications for various cable tray models. These resources allow engineers and designers to select the appropriate cable tray type, material, and size for their specific application, ensuring compliance with safety standards and efficient cable management.

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®

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.

LEGRAND CABLE TRAYS TECHNICAL GUIDE

Not all cable trays are equivalent. The mechanical and electrical characteristics, tests, certifications, overall quality management, recommendations mentioned in this technical guide only apply to our

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 ...

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.

26 05 36 Cable Trays for Electrical Systems

Cable tray layout, showing cable tray route to scale, with relationship between the tray and adjacent structural, electrical, and mechanical elements. Include the following:

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

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CABLE TRAY, CABLE LADDER, CABLE TRUNKING CATALOGUE

Fitting anf accessories. with the same or different width of the cable run. All fittings are available in sizes and types corresponding to the straight cable tray sections. These fitting are including: elbow,

Cable Tray Design and Components Guide

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

Network Infrastructure and Industrial Electrical Wiring

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GUIDE CABLE TRAYS TECHNICAL

In accordance with its continuous impro-vement policy, Legrand reserves the right to change the specifications and illus-trations without notice. All illustrations, descriptions and technical information

The Gear Page

Join a vibrant community of musicians and gear enthusiasts discussing instruments, effects, setups, and more on The Gear Page forum.

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

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 characteristics, installation, and

Cable Tray Specification Overview

This document provides a general specification for cable trays for an electrical project. It outlines technical requirements, codes and standards, site conditions, quality assurance, testing and

Technical Specification of Cable Trays 1564375363

Technical Specification of Cable Trays 1564375363 - Free download as PDF File (.pdf), Text File (.txt) or read online for free. ghgh

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Eaton Cable Tray System Specifications

EATON__full-cable-tray-specification-document - Free download as PDF File (.pdf), Text File (.txt) or read online for free. This document outlines the specifications for the installation of complete cable

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

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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Website: https://ensaa.es
Technical inquiry: https://ensaa.es/contact.html

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

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