Cable Tray Funnel Size Specification Table

Overview

GUIDE CABLE TRAYS TECHNICAL In accordance with its continuous impro-vement policy, Legrand reserves the right to change the specifications and illus-tratio.

Key Takeaways

Cable tray funnels are designed to transition cable runs between different tray widths or directions, with dimensions based on standard tray widths, side rail heights, and bend radii to ensure proper cable fill and compliance with NEC/NEMA/IEC standards.

Standard Dimensions

Cable tray funnels are typically sized according to the nominal inside width of the trays they connect. Standard widths range from 100 mm (4 in) to 600 mm (24 in) for small to medium applications, and up to 1200 mm (48 in) for large power or solar DC trunk runs. The side rail height (depth) usually ranges from 50 mm (2 in) to 150 mm (6 in), depending on cable stacking requirements and heat dissipation needs.

Material thickness varies by tray type: 1. 2–2. 0 mm for steel, 1.

5–2. 5 mm for aluminum, and wire mesh diameters of 4–6 mm for mesh trays.

Funnel Geometry and Parameters

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Transition Angle: Funnels often use a tapered design to gradually reduce or expand tray width. A typical taper angle is 15°–30°, which minimizes cable stress and allows smooth cable pulling. Bend Radius: The minimum bend radius for cables exiting the funnel should be at least 8–12 times the cable diameter to prevent damage and maintain NEC compliance.

Length: The funnel length is determined by the width difference between the trays and the taper angle. For example, a transition from 600 mm to 300 mm with a 20° taper requires a funnel length of approximately 450–500 mm. Material and Finish: Funnels are made from the same material as the connected trays (galvanized steel, stainless steel, or aluminum) to maintain structural integrity and corrosion resistance.

Perforated or solid-bottom designs are chosen based on heat dissipation and cable protection requirements. Cable Fill Considerations: Funnels must maintain the maximum allowable cable fill as per NEC/NEMA guidelines. Overcrowding can lead to overheating and inspection failures.

Typically, the funnel cross-sectional area should match or slightly exceed the smaller tray's capacity.

Installation Notes

Ensure alignment with the main tray to avoid sharp bends or cable kinks. Maintain support spacing consistent with the main tray (usually every 1. 5–2 m for straight runs, closer for transitions).

Use covers or guards if the funnel is in areas with potential mechanical damage or electromagnetic interference. By following these parameters, cable tray funnels can provide a smooth, code-compliant transition between different tray sizes while protecting cables and maintaining structural integrity.

Article Content

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

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

Conductors used in cable tray must be specified in Table 19 of the CEC and, except where permitted under paragraphs [12-2202(2)] and [(3)], covered by a continuous metal sheath or an interlocking

CABLE TRAY, CABLE LADDER, CABLE TRUNKING CATALOGUE

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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 Technical Specifications | PDF | Galvanization ...

The document provides a technical data sheet for cable trays including ladder and perforated types. It lists specifications for material, thickness, dimensions, loading capacity, fittings and accessories.

Full cable tray systems specification document

A. General: Except as otherwise indicated, provide metal cable trays, of types, classes and sizes indicated; with splice plates, bolts, nuts and washers for connecting units.

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.

CABLE TRAY

Cable Trays are designed to meet most requirements of cable and electrical wire installations and comply to local and international standards of fabrications and finishes.

12-SDMS-06

This SEC Distribution Material Specification requirements for design, materials, manufacturing, indoor/outdoor Metallic Cable Tray System, intended to be used in the distribution network of the

TECHNICAL AND SIZING DATA

Once the designer has ascertained what cables are being used and their construction, he must determine the size of the ladder tray cavity. Please reference the following section on Technical

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

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

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CABLE TRAY

Cable Support Systems are well designed to provide necessary support for cable trays, cable ladders and trunkings. Cable supports are manufactured according to common standards from high quality

Microsoft Word

3.1 Cable trays & accessories shall be of two types, namely ladder type and perforated type. Technical particulars are specified in data Sheet-A and drawings enclosed with this specification.

cable tray technical specifications cable tray

standards & specifications light & medium duty cable tray sizes essories do not have a return edge. Also light duty tray of widths 150mm and un-der do not require the use of For sizes that do require a pair

Section 16135

Provide wire basket cable tray of types and sizes indicated with connector assemblies, clamp assemblies, connector plates, splice plates and splice bars. Construct units with rounded edges and

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 and Reels | Wire and Cable Management

Fast installation with dependable support. Everything you need to build a cable management system, including Cablofil wire mesh cable tray, ladder cable tray, prefab assemblies for brand circuit wiring,

TYPICAL DETAILS OF CABLh TRAYS AND ACCESSORIES

THE CABLE TRAYS AND ACCESSORIES SHALL BE MADE OF 2mm HOT ROLLED M.S.SHEET CONFIRMING TO IS:1079. ALL THE COUPLER PLATE SHALL BE OF 3 MM THICK.

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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