Specifications and dimensions of cable tray tee fittings

Overview

This guide explains the different types of cable tray tees, their applications, support requirements, load considerations, and installation best practices.

Key Takeaways

Cable tray tee fittings are available in widths from 6" to 36", heights from 4" to 7", and radii from 12" to 36", compatible with ladder and solid bottom trays.

General Overview

Cable tray tee fittings are used to connect three cable tray runs, enabling branching in three directions. They are manufactured to match the dimensions and types of the straight tray sections they connect, including ladder, solid bottom, and channel types. Tee fittings are typically made from aluminum or steel, offering corrosion resistance and structural strength suitable for industrial, commercial, and data center applications.

Dimensions

Widths: Standard widths range from 6 inches to 36 inches, measured as the usable inside width of the tray. Heights (Side Rail Height): Available in 4", 5", 6", and 7", controlling vertical stacking capacity and cable fill compliance. Radii: Fittings have a minimum radius of 12 inches, with options up to 36 inches, ensuring smooth cable routing and reducing stress on cables.

Tangent: All fittings include a 3-inch tangent to facilitate smooth transitions between straight and curved sections.

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Construction and Load Capacity

Ladder Tray Type: Uses I-shaped rungs, typically 1" wide, with radiused edges and a minimum cable-bearing surface of 7/8". Solid Bottom Tray Type: Flat sheet welded over side rails, providing a continuous support surface for cables. Material: Aluminum for lightweight, corrosion-resistant applications; steel (hot-dip galvanized or bare) for heavy-duty industrial use.

Load Rating: Rungs and side rails are designed to support cable loads with a safety factor of 1. 5 and withstand a 200 lb concentrated load per NEMA VE 1 standards.

Standards Compliance

Cable tray tee fittings are manufactured in accordance with: ANSI/NFPA 70 – National Electrical CodeASTM A123, A653, A1011, A1008, B633 for steel and zinc coatingsNEMA VE 1 for metallic cable tray systems.

Summary

When specifying or ordering cable tray tee fittings, ensure the width, height, and radius match the straight tray sections, select the appropriate tray type (ladder or solid bottom), and confirm material and load capacity meet project requirements. Aluminum tees are ideal for lightweight, corrosion-resistant installations, while steel tees are suited for heavy-duty or industrial environments.

Article Content

Cable Tray Tee Fitting Guide

This guide explains the different types of cable tray tees, their applications, support requirements, load considerations, and installation best practices.

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

Itray Aluminum Ladder Tray Tee Horizontal Fittings

Horizontal tee fittings join cable trays in three directions. Rail heights range from 4" to 7", widths range from 6" to 36" and radiuses range from 12" to 36". Tray types are available in ladder and solid bottom.

Cable Tray Tee Dimensions and Specifications Table

This document provides information about cable trays and accessories, including straight cable trays, perforated trays, returned edge and flange types, and bent

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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,

GUIDE CABLE TRAYS TECHNICAL

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

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

Nonmetallic

To order a straight section of cable tray, select the appropriate size and material from the charts below and place those symbols in the sequence shown to form the complete catalog number.

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 Tray Quotation Guide | PDF | Civil Engineering | Equipment

Cable tray quotation guide - Free download as PDF File (.pdf), Text File (.txt) or read online for free. This document provides specifications for T&B cable tray, including: 1) Material options of aluminum,

Cable Tray Specifications and Guidelines

Cable Tray Specifications and Guidelines This document provides general guidelines for cable trays and their installation. It discusses the different types of cable trays, including perforated

How to Calculate the Cable Tray Support Quantity

Learn how to accurately calculate cable tray support quantities in electrical installation projects. Our guide covers methods, tools, and practical

CableTray Book English

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Fittings in a cable tray system are required to change cable routing direction and to join straight sections and other fittings. This step of the cable tray selection process requires that the specifier chooses

Galvanized Cable Tray Installation Guide

2.2 Supply, fabrication & installation of perforated hot dipped galvanised double bended cable trays from 2 mm thick GI sheets continuously connected including horizontal and vertical bends, reducers, tees,

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.

How to Control Cable Tray Project Budget

Why Cable Tray Project Cost Control Matters for Buyers As a cable tray manufacturer working closely with EPC contractors, electrical installers, and

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

26 05 36 Cable Trays for Electrical Systems

EATON B-LINE SERIES GUIDE SPECIFICATION Section 26 05 36 – CABLE TRAYS FOR ELECTRICAL SYSTEMS 26 05 364/2025 Specifier Notes: This product guide specification is written

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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