

# Cable tray single-sided tee construction



## Overview

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

## Key Takeaways

Single-sided tee cable trays are available in equal or unequal widths, constructed from steel or aluminum, and designed to meet NEMA/CSA load ratings with a 1.5 safety factor.

## General Description

A single-sided tee is a cable tray fitting that allows a branch to diverge from a main tray run at a 90° angle. These tees can be equal or unequal, depending on the widths of the main and branch trays, and are typically specified using the format W1 x W2 x W3, where W1, W2, and W3 represent the widths of the main run and branch sections.

## Material and Construction

Materials: Steel (hot-dip galvanized, stainless, or painted) or aluminum. Side Rails: Extruded I-beam or fabricated steel/aluminum, nominal heights typically 4–8 inches. Bottom Type: Ladder, ventilated, solid, or channel, depending on cable support and ventilation requirements.



## **Rungs/**

Supports: Spaced to allow proper cable support, often 12 inches center-to-center for ladder types. Finish: Smooth edges and welds to prevent cable damage; zinc or epoxy coatings for corrosion resistance.

## **Load Ratings**

Safety Factor: 1.5 applied to all tray sections. Concentrated Load: Supports an additional 200 lb on any portion of the tray beyond published load class.

Span Deflection: Deflection measured at midpoint; continuous spans may reduce deflection by up to 50%. Standards and Compliance NEMA VE 1: Metallic cable tray systems.

CS

A Load Classes: C/3M or as specified for the project.

## **AST**

M Standards: A123, A653, A1011, A1008, B633 for steel and coating specifications. Electrical Codes: ANSI/NFPA 70 (NEC) compliance.

## **Ordering Information**

Specify widths (W1 x W2 x W3) and material. Indicate tray type (ladder, solid, ventilated) and finish. Include load class and any special requirements for branch angles or radius.

## **Installation Notes**

Use splice plates or connectors provided with each fitting for secure attachment. Ensure proper grounding and electrical continuity according to NEC and manufacturer guidelines. Verify that the tee aligns with the main tray run and supports the intended cable load without exceeding deflection limits.

This specification ensures that single-sided tee cable trays are mechanically robust, electrically safe, and compatible with standard cable management systems.

## 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.

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

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.,

### Cable tray manual

There are several sections which cover the requirements for the use of single conductor cables in cable tray even though they only comprise a small percentage of cable tray wiring systems.

### 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.

### CableTray Book English

For example, the first selection issue is the environment to which the cable tray will be subjected. This selection will lead to the best material for your application.

### 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®

### Document DICOS

single-rail cable tray: A fabricated structure consisting of a longitudinal rail with transversely connected Members (rungs) that project from one side (side-supported) or both sides (center-supported), which

### Cable Tray Tee Supplier | T-Junction Fittings for Cable Tray

A cable tray tee should match the tray type, main route width, branch route width, side height, cover requirement, connector method and finish. A route drawing is the most reliable way to confirm tee

### INSTALLATION GUIDE

Center hung tray supports allow for quicker and easier cable installation by allowing cables to be deposited into tray systems from each side. There is a maximum load capacity per hanger of 318 kg

### Cable Tray Fitting

Cable Tray Fitting - Tee NOTE : Equal or un equal tees can be supplied. When ordering state widths W1xW2xW3

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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 Trays and Accesories

Cable Trays and Accessories are designed to meet most requeriments of cable and electrical wire installations and comply to local international standards of ...

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 SYSTEMS GUIDE

Steel Ladder System Hubbell's NEXTFRAME® Ladder Tray is the effective and widely used cable runway that supports and delivers bundles of cable between cabinets, racks, and closets, along

#### Related Video Reference

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