

How to use a cable tray oblique tee



Article Overview

Oblique tees in cable tray systems should be positioned to maintain proper cable routing, support, and bend radius while ensuring structural stability and compliance with design standards.

Purpose of Oblique Tees

Oblique tees are used to branch cables at an angle from a main cable tray run, allowing for smooth transitions to equipment or secondary tray runs without sharp bends. They are particularly useful in instrumentation, control, and power cabling where maintaining cable integrity and minimizing stress is critical .

Positioning Guidelines

- **Alignment with Main Tray:** The tee should be installed so that the branch tray aligns with the intended cable path, avoiding unnecessary twists or sharp angles. The angle of the oblique tee typically ranges between 30° and 60°, depending on the layout and space constraints .
- **Support and Load Considerations:** Ensure that both the main and branch trays are adequately supported near the tee. Supports should be placed close to the tee junction to prevent sagging and maintain load capacity, especially for heavy-duty trays .
- **Bend Radius Compliance:** Maintain the minimum bend radius for all cables exiting the tee. This prevents damage to insulation and ensures signal integrity for data and control cables .
- **Rung Spacing and Cable Securing:** Use appropriate rung spacing (6-12 inches for small instrumentation cables) to secure cables and prevent movement at the tee ju...

Article Content

Jun 02, 2026

Cable tray manual

These documents: ANSI/NEMA VE-1, Metal Cable Tray Systems; NEMA VE-2, Cable Tray Installation Guidelines; and NEMA FG-1,

Dec 25, 2025

Fiber Cable Tray System

Installation and maintenance of cable tray wiring systems should be performed by a minimum of two qualified technicians. For the

Apr 30, 2026

INSTALLATIONS

Use this guide to learn the most effective installation practices when installing Cablofil tray. Each example of bends and tee's clearly

Mar 28, 2026

Working with EzyTrays

Unlike the CT range of tray, the ET range does not come with pre-made fittings, rather, it uses accessories that allow you to bend,

May 19, 2026

Cable tray

In the electrical wiring of buildings, a cable tray system is used to support insulated electrical cables used for power distribution,

Feb 13, 2026

Cable Tray Tee Fitting Guide

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

Mar 12, 2026

Wire Basket Overhead Cable Tray Routing System Application Guide

The Wire Basket Overhead Cable Tray Routing System is composed of pathways, splices, mounting brackets, and accessories that

Jun 06, 2026

Kable Kontrol Cable Tray tees and x junction instructions

Wire Mesh Cable Tray Reducer and Tee Junction Instructions CABLE TRAY CUTTING & BENDING GUIDES CONFIGURING

Jun 19, 2026

Best Practice Guide to Cable Ladder and Cable Tray Systems

Cable ladder systems and cable tray systems are designed for use as supports for cables and not as enclosures giving full

Mar 29, 2026

Tray Installations

Tray Installations The placement of cables, ducts, and conduits can be done using cable trays – for both outside plant (OSP) and

Feb 19, 2026

Best practice guide to cable ladder and cable tray systems

Cable ladder and cable tray systems The following recommendations are intended to be a practical guide to ensure

Aug 11, 2025

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

May 16, 2026

The Complete Guide to Cable Trays | Snake Tray

Learn about the benefits and applications of cable trays, and the specific advantages of using Snake Tray products.

Mar 28, 2026

A Guide to Installing and Supporting Electrical Cable Trays

This guide covers the critical steps, from selecting the right electrical cable tray and performing accurate

Oct 06, 2025

Cable tray manual

INTRODUCTION The B-Line series Cable Tray Manual was produced by our technical staff. We recognize the need for a complete

Dec 18, 2025

Complete cable tray manual for electrical engineers and designers

How to design cable tray? Most projects are roughly defined at the start of cable tray design. For projects that are not

Nov 24, 2025

Assembly Guide

Assembly Guide The bends, tees, crosses, risers and reducers of wire mesh cable tray can be easily and quickly made live at the

Dec 18, 2025

Assembly Guide

Guide for making bends, tees, crosses, risers and reducers from straight sections of wire basket cable trays live at the project.

Aug 14, 2025

Solved: Cable tray fitting (tee)

Is it possible to connect 2 cabletrays with a "branch piece (left picture)" instead of a "tee

Apr 07, 2026

B-Line series Cable Tray Design Considerations

As an industry leader in cable tray, Eaton offers one of the widest ranges of cable management solutions available in the market

Mar 12, 2026

Types of Cable Trays - Purpose, Advantages, Disadvantages

Cable tray is alternatives to wire ways and electrical conduits, which completely enclose cables. Study types of cable

Jul 09, 2026

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

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://www.greatpremiersolutions.co.za>

Email: sales@greatpremiersolutions.co.za

Phone: +27 82 914 3675

Address: Unit 5, Silicon Heights, 22 Electron Avenue, Cape Town, 8001, South Africa

This document is for informational purposes only. Specifications subject to change without notice.

