

Parallel Angle of Cable Tray



AI Overview

The parallel angle of a cable tray refers to the alignment of trays running side by side or in parallel to a reference plane, ensuring proper spacing, support, and cable management.

Definition and Importance

In cable tray systems, the parallel angle is the orientation at which multiple trays are installed relative to each other or to structural elements like walls, ceilings, or floors. Maintaining a consistent parallel angle is crucial for:

- **Mechanical stability:** Proper alignment prevents undue stress on tray joints and supports.
- **Cable management:** Ensures cables are evenly distributed and reduces the risk of overcrowding or interference.
- **Ease of maintenance:** Parallel trays allow easier access for inspection, cable addition, or replacement.

Installation Considerations

- **Support Elements:** Cable trays are mounted using wall brackets, suspended supports, or center suspensions. These supports must be aligned to maintain the parallel angle across the run of the trays (OBO CMS guide) .
- **Fittings and Bends:** Horizontal and vertical bends, T-pieces, and crossovers should be installed carefully to preserve the parallel orientation of adjacent trays. Misalignment at bends can create uneven cable tension or reduce tray capacity .
- **Spacing:** Parallel trays should have adequate spacing to allow airflow, heat dissip...

Article Content

Apr 06, 2026

How to Calculate Size of Cut to Set Cable Tray

I worked with cable tray about 40 years ago and remember I created a couple of simple formulae to work out how much triangular section of the cable tray to cut out to do various sets. I

Apr 11, 2026

How to Install Cable Tray: A Comprehensive Guide to Different Cable ...

Welcome to our step-by-step guide on installing cable trays! In this video, we'll explore the different types of cable trays available and provide detailed instructions for their installation.

Jan 26, 2026

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®

May 28, 2026

CABLE TRAY SYSTEMS GUIDE

Cable Tray Systems Guide HUBBELL Hubbell Wiring Device-Kellems and Hubbell Premise Wiring are divisions of Hubbell Incorporated, a U.S. headquartered manufacturer with over 130 years of

Jun 18, 2026

Cable Tray Offset Calculator – Bend & Transition

Calculate cable tray offset dimensions, bend lengths, and transition angles for routing around obstacles. Free cable tray offset calculator for network

Jun 02, 2026

Document DICOS

To install the cable tray supports, first find the required elevation from the floor to the bottom of the cable tray and establish a level line with a laser or a nylon string.

Jun 03, 2026

Cable Tray Dimensions Guide: Standard Sizes, Tray

Explore standard sizes by tray type, understand width and depth limits, and see how to calculate and choose compliant cable tray sizes for real

Jul 29, 2025

Cable Tray Spacing Standards for Installation and Safety

The Importance of Cable Tray Spacing in Electrical Infrastructure Cable tray spacing is a critical aspect of electrical infrastructure, influencing both

Jan 13, 2026

Best Practice Guide to Cable Ladder and Cable Tray Systems

This publication is intended as a practical guide for the proper and safe* installation of cable ladder systems, cable tray systems, channel support systems and associated supports.

Feb 13, 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 the safe and proper installation of cable ladder and cable tray systems

Mar 15, 2026

Cable Tray Installation Specifications | PDF | Sheet Metal

This document provides installation guidelines for cable trays, including: 1) Cable trays come in perforated and ladder types, with perforated trays made of steel sheets and ladder trays made of

Jan 28, 2026

Phase Sequence and Cable Arrangement

In cases where multiple cables need to be connected parallelly in the same phase; ensuring that the same current goes through all cables is possible by the right

Jul 27, 2025

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 developed by ABB as a practical reference regarding cable tray

Apr 25, 2026

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

Aug 19, 2025

Cable tray manual

If these circuits were installed in cable tray, the conductor sizes would not need to be increased since the parallel conductor derating factors do not apply to three conductor or single conductor cables in

Jun 30, 2026

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.,

Apr 22, 2026

Document DICOS

A channel cable tray can be added to an existing cable tray system using the method illustrated in Figure 3-89 to add approved cabling systems. Refer to the loading information of the existing cable

Sep 02, 2025

Cable Tray Offset Calculator

Cable Tray Offset Calculator Compute precise cable tray offset geometry, run lengths, and diagonal travel dimensions for tray routing elevation changes. Supports multiple engineering units for NEC

Feb 27, 2026

Cable Tray Offset Calculator | Vertical, Horizontal & Compound Offset

Vertical vs Horizontal vs Compound Offset Depending on the layout of your facility, your cable tray will need to maneuver in different directions to avoid clashes: Vertical Offsets: Route the tray up toward

Aug 13, 2025

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 today with its B-Line series portfolio. With unmatched quality and service, we

Mar 31, 2026

Configuration methods

M – Large cable drop-out of wire basket tray. The large cable drop-out is ideally suited for use with Category 5 a When attaching the large drop-out to tray siderails, install using the built-in tabs. When

Aug 20, 2025

Beama Best Practice Guide | Installation Of The System | Cable ...

The following recommendations are intended to be a practical guide to ensure the safe and proper installation of cable ladder and cable tray systems and channel support and other support systems.

Apr 04, 2026

Cable Tray Design and Components Guide

This document provides information about cable trays and accessories, including straight cable trays, perforated trays, returned edge and flange types, and bent cable trays. Tables list standard sizes and

Contact Us

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

Website: <https://ntmmgroup.co.za>

Email: sales@ntmmgroup.co.za

Phone: +27 82 471 2596

Address: Unit 7, Optic Park, 24 High-Tech Lane, Century City, Cape Town, 7441, South Africa

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

