

How to connect a finished cable tray tee

Article Overview

Cable tray tee fittings are connected using joint plates, clamps, or bolts, with careful alignment and on-site adjustments to ensure secure and continuous cable support.

Standard Connection Procedure

- o **Positioning the Tee Fitting** The tee fitting is aligned with the main cable tray run and the branch tray. Ensure the tray rails are flush and the fitting is oriented correctly to maintain cable support and proper routing .
- o **Using Joint Plates** Most tee fittings include integrated joint plates. These plates are inserted between the tray rails and fastened with truss-head bolts and combination nuts. For wider trays (400 mm or more), joint plates are essential to prevent transverse bending under load .
- o **Fastening Methods**
 - o **Screws and Bolts:** Pass screws through the inner side of the tray rail and secure with combination nuts on the outer side to avoid cable damage .
 - o **Clamps:** Some systems use double clamps (e.g., DOP A2 type) to secure the fitting without penetrating the tray bottom, protecting cables from damage .
- o **On-Site Adjustments** In some installations, especially when a branch piece is used instead of a pre-fabricated tee, the main tray may need to be cut or modified on-site to fit the branch properly . This allows for faster installation while maintaining structural integrity.
- o **Cover Installation** If the tee fitting includes a cover, it may be pre-mounted with turn buckles or secured using the tray support. Covers protect cables and maintain aesthetics, particularly in visible installations .

Additional Considerations

- o **Tray Height and Width:** Ensure the fitting matches the tray dimensions (heights 35-110 mm, widths 100-600 mm) to maintain proper alignment .
- o **Material Compatibility:** Tee fittings are available in various materials (steel, aluminum) and finishes; select according to environmental conditions to prevent corrosion .
- o **Safety:** Always avoid damaging cables with screws or bolts. Fasten from the inner side and secure externally to minimize risk . By following these steps, a cable tray tee fitting can be securely connected, providing a reliable path for electrical cables while allowing for future modifications or expansions.

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

Place horizontal tee supports within 600 mm (2 ft.) of each of the three openings connected to other cable tray



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items for the 300 mm

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

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,

B. Cable tray systems are defined to include, but are not limited to straight sections of [ladder type] [trough type] [solid bottom type]

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

Lengths of tray lock together in a matter of seconds with no connection components or tools and with no loss of stability or load

The document outlines the procedure for installing cable trays, including essential tools, equipment, and safety measures. It

This document provides details on installing cable trays and their support systems. It includes diagrams showing how to mount cable

This document provides general guidelines for cable trays and their installation. It discusses the different types of

This document provides guidance on best practices for installing cable ladder and cable tray systems, including channel support

In designing supports for a cable tray system, consideration should be given to the loads associated with future cable additions and

Learn common methods for connecting cable trays safely and efficiently. Our guide covers

Creating cable tray routes: Learn how to plan and draw cable tray routes efficiently

This video is a short excerpt from our full video that can be found

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

