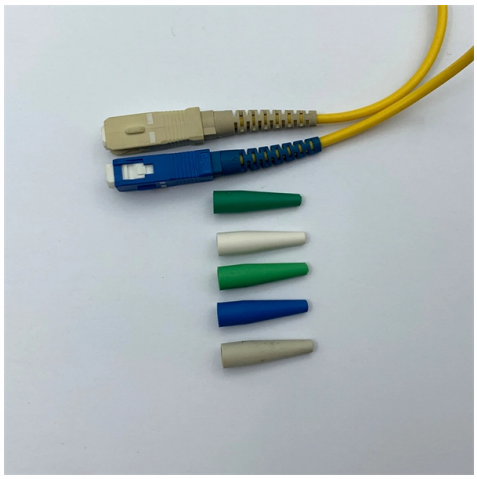
ZITHA TECH SPECIALTY CABLES (Pty) Ltd

Simple Connection Method for Cable Tray Tee



Overview

Introduction The purpose of this document is to describe the correct process to install the connectors in our cable trays.

Key Takeaways

A cable tray tee is connected using a combination of tee fittings, splice plates, and bolts, or by on-site fabrication with brackets, ensuring a secure, stable, and code-compliant junction.Steps to Connect a Cable Tray Tee

1. Select the Appropriate Tee Fitting Use a tee-shaped plate or fitting designed for your cable tray system. This fitting has three connectors to join the main tray and the branch tray at a junction, allowing cables to split safely and maintain system stability . 2. Prepare the Tray Sections

• Align the main tray and the branch tray at the desired junction.

• If necessary, cut or notch the main tray to accommodate the branch tray, ensuring the edges do not interfere with cable placement .

• Ensure the tray ends are clean and free of burrs to prevent cable damage. 3. Attach the Tee Fitting

• Place the tee fitting at the junction where the three tray sections meet.

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• Use splice plates or L/T/cross plates to secure the fitting to each tray section. These plates are typically flat metal with pre-drilled holes .

• Align the holes of the tray and fitting carefully to ensure a tight connection. 4. Fasten with Bolts and Nuts

• Use the recommended bolts, nuts, and washers to secure the splice plates and tee fitting.

• Tighten bolts with a spanner or torque wrench to ensure a strong, vibration-resistant connection .

• For some systems, quick-connect brackets or specialized TX brackets can be used to fabricate tees on-site, bending the tray sidewalls and securing with bolts . 5. Check Alignment and Stability

• Ensure the tee junction is level and properly aligned with the rest of the tray system.

• Verify that the connection can support the expected cable load without sagging.

• Install riser links or hold-down units in pairs if required for additional support . 6. Final Inspection

• Confirm that all bolts are tightened and the tray edges are smooth.

• Ensure the tee connection complies with local electrical codes and manufacturer guidelines .

• Test for stability by gently applying pressure to the junction to check for movement. Tips and Considerations
• On-site fabrication: Some systems allow you to create a tee by cutting and bending tray sections, which can save time but requires careful alignment .

• Material compatibility: Ensure the tee fitting and fasteners match the tray material (e.g., steel, aluminum, or stainless steel) to prevent corrosion .

• Future maintenance: Use connections that can be undone if trays need to be reconfigured or extended . By following these steps, you can create a secure, durable, and professional cable tray tee connection that supports cables safely and meets installation standards.

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Article Content

Cable Tray Tee Fitting Guide

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Connecting Cable Trays: Your Guide to Secure and

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

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Cable Tray Installation Rules (NEC 392) – Electrical Trader

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Core rules for selecting, installing, grounding, and filling cable trays—clearances, materials, separation, and bonding

Cable tray

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The Practical Skills Series: Cable Tray

Full video content: Introduction, considerations for using tray - 4 mins The Easy Bend - 19

Configuration methods

B – Connection of straight sections As the name suggests, the quick splice shown on page C16 is another quick method for attaching

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2. Purpose This method statement for the Installation of Cable Tray, Trunking, and Accessories shows and explains

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A Guide to Cable Tray Accessories and Their Functions

Cable Tray Accessories Types and Their Functions Cable tray accessories are crucial components that transform

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]

CABLE TRAY INSTALLATION PROCEDURE

CABLE TRAY INSTALLATION PROCEDURE / METHOD STATEMENT 1. All cable trays & accessories received at

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