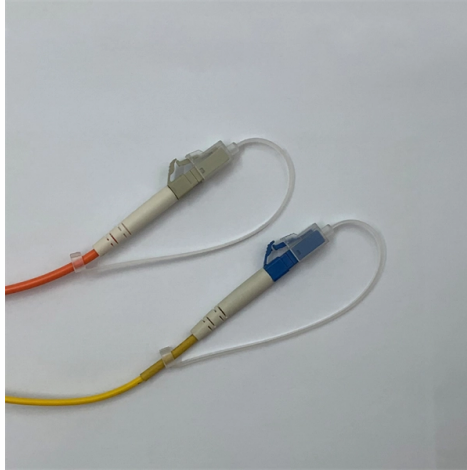


How to connect an 80mm cable tray



Overview

Connecting Cable Trays: Your Guide to Secure and Learn common methods for connecting cable trays safely and efficiently. Our guide covers 5 Steps to Learn.

Key Takeaways

Connect an 80mm cable tray using splice plates, bolts, and clamps to ensure a secure, level, and grounded installation.

Step 1: Plan and Prepare

Before connecting the trays, plan the route and ensure the 80mm tray sections are aligned with your electrical layout, considering clearance, load, and cable separation requirements . Inspect all tray sections and accessories for damage and verify that you have the correct splice plates, bolts, nuts, and grounding clamps .

Step 2: Align the Tray Sections

Place the two tray sections end-to-end on their supports. Ensure they are level and properly aligned to prevent sagging or misalignment. Use a spirit level and measuring tape to confirm straightness .

Step 3: Attach Splice Plates

- Use flat metal splice plates with pre-drilled holes to join the tray ends.
- Position the splice plate so that it overlaps both tray ends evenly.



- Insert bolts through the holes and secure with nuts. Tighten using a spanner or torque wrench to ensure a firm connection .

- For angled connections (L, T, or cross), use angle-specific plates designed for junctions.

Step 4: Secure with Clamps or Quick Connects

- Depending on the tray type, you may also use clamps or quick-connect systems to reinforce the joint. These provide additional stability and can simplify future maintenance .

- Ensure all fasteners are tightened and the tray is rigid under expected cable load.

Step 5: Grounding

- Connect the tray to the grounding system using grounding clamps or conductors as per NEC Article 392. This prevents static buildup and ensures electrical safety .

Step 6: Final Checks

- Verify that the tray is level, stable, and properly supported. Supports should typically be spaced 1.5–3 meters apart depending on load .

- Check that all bolts and clamps are secure and that the tray can safely carry the intended cable weight.

- Ensure cables can be laid without kinks or excessive bending.

By following these steps, your 80mm cable tray will be securely connected, grounded, and ready for cable installation, providing a safe and durable cable management system .

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