

How to connect cable trays to Huijue

Article Overview

Huijue cable trays can be connected using splice plates, bolted connections, or quick-connect systems, ensuring proper alignment, grounding, and secure fastening for safety and stability.

Step 1: Plan and Prepare

Before connecting trays, plan the route according to your site layout, considering clearance, load capacity, and cable separation requirements. Select the appropriate tray type (ladder, perforated, or solid-bottom) based on airflow, cable type, and load . Ensure you have the necessary tools such as a socket wrench, torque wrench, and insulated screwdriver, and materials like splice plates, bolts, and grounding cables .

Step 2: Install Supports

Secure cable tray supports to walls, ceilings, or cabinet tops using the recommended screws (e.g., M6x16). Ensure the grounding side faces outward for easy connection of ground cables . Supports should be spaced properly, typically 1.5-3 meters apart, depending on tray type and load .

Step 3: Connect Tray Sections

There are several methods to join Huijue cable trays:

- o Splice Plates/Bolted Connections: Use flat metal plates with pre-drilled holes to join two tray sections in a straight line. Bolt them securely using spanners or torque wrenches. This method is strong, reliable, and allows future disassembly .
- o Quick-Connect Systems: Snap, slide, or twist trays together with minimal tools. This method is faster and reduces labor time by 30-50%, but may require compatible Huijue components .
- o Angle or T-Junction Plates: Use L, T, or cross-shaped plates to connect trays at corners or splits, ensuring proper alignment for cable routing . Ensure that connectors are positioned between support points, not at the center of spans, to prevent sagging .

Step 4: Grounding

Connect a ground cable between the tray and its supports at each connection point. Ground trays at least every 15 meters and at both ends to maintain electrical continuity and safety . Use bonding jumpers at expansion joints or long outdoor runs.

Step 5: Final Checks

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- o Align trays straight and level.
- o Verify all bolts and connectors are tight.
- o Ensure cables can be laid without kinks or obstruction.
- o Confirm grounding continuity across the system . Following these steps ensures a stable, safe, and durable Huijue cable tray installation, allowing for easy maintenance and compliance with electrical standards.

Proper installation and maintenance of cable tray and cable ladder systems are vital to maximize their benefits and

Align the connectors with the fixing points for cable trays, partially tighten the bolts, and then fully tighten all bolts. Verify that cable

Below is a complete method statement for installation of cable tray, cable trunking and cable ladders in compliance with project

Explanation of the three systems available for joining cable tray, delivered by Greenmill

The Engineering Galaxy - Engalaxy Full guide of cable tray installation and sizing - Part 1

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

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

Installing Cable Trays (in Scenarios with a Column) Prerequisites Determine the position and mode (combined or layered) for

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

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