

Huijue cable tray not connected

Article Overview

A Huijue cable tray that is not connected should be properly aligned, mechanically secured with appropriate connectors, and grounded to ensure safety and system stability.

Check Alignment and Support

Ensure that the tray sections are aligned straight and level. Misalignment can prevent proper connection and cause stress on joints. Verify that supports, brackets, or hangers are correctly spaced according to the tray type and load requirements, typically 1.5 to 3 meters apart for ladder or perforated trays, to prevent sagging or deflection (ApexTray, BuildMatt) .

Use Proper Connection Methods

Huijue cable trays, like other metallic trays, can be connected using splice plates, bolted connections, clamps, or quick-connect systems. For straight-line joins, flat metal splice plates with bolts are commonly used. Ensure all bolts are tightened securely and that the connection is flush to avoid gaps or weak joints (ApexTray, ResoluxGroup) . For long runs, consider using cable tray rollers to lay cables smoothly and prevent kinks during installation (ElconGlobal) .

Grounding and Bonding

If the tray is metallic, it must be grounded according to NEC Article 250.96. Use grounding clamps to bond each tray section to the equipment grounding conductor (EGC). Avoid placing bare copper conductors in aluminum trays to prevent corrosion; instead, use insulated conductors with exposed ends at bonding points (IDC-Online, ResoluxGroup) . Proper grounding ensures electrical safety and prevents hazards from fault currents.

Inspect for Common Issues

Check for loose clamps, misaligned joints, or unsupported spans. Overcrowding cables or improper fastening can lead to sagging, mechanical stress, or abrasion of cable insulation. Ensure that the tray is not overloaded and that all edges are smooth or protected to prevent cable damage (BuildMatt, ElconGlobal) .

Maintenance and Final Checks

After connecting the tray, perform a walkthrough inspection to confirm all sections are secure, aligned, and grounded. Label cables clearly and maintain documentation for future audits or maintenance. Routine checks help extend the system's lifespan and prevent failures (ElconGlobal) . By following these steps--alignment,



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secure mechanical connection, proper grounding, and inspection--a Huijue cable tray can be safely and effectively connected, ensuring long-term stability and compliance with electrical codes.

If trenches contain only one row of cable tray, it is acceptable to have access to the cable tray from the ground level without the need

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Cable tray installed in a hazardous location must contain only those cables that are appropriate for this type of environment as

This document deals with cables trays, cables and connector installation and segregation, cable trays earthing and E.M.C. directives.

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