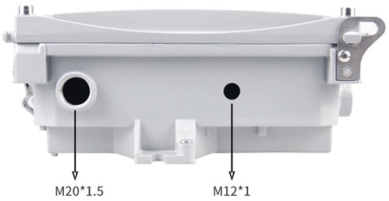
Vietnam Grid Cable Tray Installation Process



Overview

Factory cable tray installation: Process & 5 mistakesCable tray installation must follow 5 main steps, from preparation to acceptance. Each step has specif.

Key Takeaways

Cable tray installation in Vietnam follows a structured process including material inspection, preparation, safe handling, alignment, fixation, and compliance with project specifications and international standards.1. Preparation and Material Handling

Before installation, all cable trays, accessories (bends, tees, reducers, covers, supports, hangers, bolts), and tools must be inspected for damage, coating integrity, and compliance with approved submittals. Materials should be stored in a dry, shaded area, protected from dirt, oil, and corrosion, and fully identified according to shop drawings and CAD layouts . A Material Inspection Request (MIR) should be submitted for approval prior to installation .

2. Safety and Site Readiness

All personnel must follow Health, Safety, and Environment (HSE) guidelines, including toolboxes talks and safety briefings. Work areas should be barricaded, clean, and free from obstructions. Proper lighting, lifting equipment, and safe access must be ensured . Personnel should be aware of manufacturer-recommended handling procedures for cable trays and accessories.

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3. Installation Procedure

• Support and Fixation: Install self-supporting cable trays with appropriate wide flanges (48mm, 72mm, or 100mm) based on cable cross-section. Supports, racks, and hangers must be aligned and leveled according to design drawings .

• Routing: Cable trays should run flat under floors or walkways whenever possible. Vertical or edgewise installations are used only when necessary. On vertical trays, cables are secured with stainless steel strips (two per meter), while horizontal trays use grouped fastening every 2–3 meters .

• Jointing and Earth Continuity: Ensure all joints maintain earth continuity using crimp-type terminals and earth jumper cables. Expansion joints should be installed where specified, and sharp 90-degree bends should be avoided .

• Alignment and Spacing: Maintain adequate spacing between parallel runs to accommodate cable layers. Cutting edges must be touch-up painted to prevent corrosion .

4. Inspection and Quality Control

• Conduct inspections according to the Inspection & Test Plan (ITP), including verification of tray condition, alignment, leveling, and compliance with shop drawings .

• Confirm that all fixings, supports, and hardware meet project specifications.

• Document any discrepancies or damages and report to the QA/QC Engineer for corrective action .

5. Final Checks

• Ensure all trays and supports are clean and free from damage before cable laying.

• Verify that the installation meets project specifications, manufacturer instructions, and international standards such as NEMA VE1, VE2, and ARAMCO .

• Conduct a final review of safety compliance and accessibility for future maintenance. This structured approach ensures that cable tray installations in Vietnam are safe, durable, and compliant with both local and international electrical standards, supporting efficient power distribution across medium- and low-voltage grids .

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Article Content

Cable Tray Installation Procedure Guide

It describes inspecting and storing cable trays upon receipt, installing trays flat or vertically, fixing trays to structures, designing trays

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