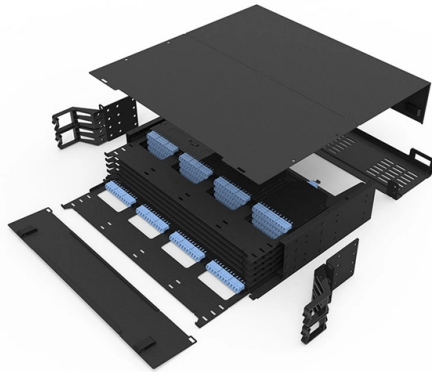


Cable tray laying in Nigeria



AI Overview

Cable tray installation in Nigeria involves careful planning, material preparation, support installation, cable laying, grounding, labeling, and inspection to ensure a safe and efficient electrical system.

- 1. Planning and Documentation**Begin by reviewing the approved shop drawings which detail the layout, length, and location of cable trays and ladders in the building or facility . Ensure all relevant documentation, including material submittals and site-specific requirements, is verified before starting the work.
- 2. Material Preparation**Inspect all received materials for damage or discrepancies and remove unsuitable items from the site .Store cable trays and ladders horizontally on flat surfaces with timber supports at intervals of one meter, protecting them from moisture and sunlight .Ensure availability of all fittings, accessories, and tools such as saws, drills, wrenches, levels, and clamps .
- 3. Marking and Layout**Mark the cable tray routes on walls, ceilings, or floors according to the approved drawings .Identify support points and locations for bends, tees, and junctions.
- 4. Support Installation**Install supports, hangers, and brackets at regular intervals to maintain tray stability and prevent sagging .Ensure supports are level and aligned to avoid misalignment of trays.
- 5. Cutting and Assembly**Cut trays to required lengths using appropriate tools.Drill holes for fasteners and assemble trays with fittings and accessories such as bends, tees, and couplers .Use quick-fixing systems like Faslock for wire mesh trays to simplify bends and direction changes .
- 6. Cable Laying**Lay cables in the trays according to voltage, function, and type, keeping them organized with cable ties or straps .Leave slack for expansion or future adjustments.Avoid overfilling trays to maintain proper ventilation and prevent overheating.
- 7. Grounding and Bonding**Ensure metal trays are properly grounded using bonding jumpers across sections to maintain electrical continuity and safety .Verify compliance with local electrical codes and standards.
- 8. Labeling and Docum...**

Article Content

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