

Installation of New Type of Cable Trays in the Middle East



Overview

Cable Tray Products UAE | Cable Tray Management Solutions | West Explore West Port's cable tray products and accessories in the UAE: cable trays, trunking.

Key Takeaways

Cable tray installation in the Middle East requires careful planning, proper support, grounding, and adherence to DEWA, NEMA, and ARAMCO standards to ensure safety, reliability, and long-term performance. 1.

Pre-

Installation Preparation

Material Inspection: Verify all cable trays, ladders, and accessories against approved material submittals. Remove damaged or non-compliant items from the site. Site Readiness: Ensure civil works, MEP clearances, and floor/ceiling structures are complete.

Clean the area to allow unobstructed installation. Documentation Review: Check approved shop drawings for tray routes, lengths, and locations. Confirm compliance with project specifications.

2.



Marking and Routing

Use a laser level or chalk line to mark tray routes on walls, ceilings, or soffits. Maintain minimum clearances from other services (fire lines, gas pipes) and finished floor levels (typically ≥ 2.1 m in walkable areas),.

Ensure horizontal and vertical runs are coordinated to avoid clashes with other services. 3.

Support Installation

Install supports such as brackets, hangers, trapeze, or wall supports at intervals of 1.2–1.5 m for standard loads; closer spacing may be required for heavier trays.

Use G

1 threaded rods, anchor bolts, or chemical anchors as needed. Supports must be rigid, level, and aligned. Design supports to accommodate the weight of cables to prevent sagging or deformation.

4.

Tray Mounting

Mount trays on supports and join sections using couplers, bolts, nuts, and spring washers. Maintain smooth bends using factory-made bends, tees, or reducers; avoid sharp edges. Follow cable segregation rules: separate LV power from ELV/control cables, or use divider plates if sharing the same tray.

Ensure tray fill ratio does not exceed 40–50% to allow ventilation and prevent overheating. 5.

Earthing and Bonding

Bond cable trays at every joint using earth continuity jumpers and connect to the main earthing system at least at one end. Use a minimum 16 mm² copper bonding conductor unless otherwise specified. For metallic trays, ensure bonding jumpers are installed every 25 m and across each tray joint.

6.

Environmental and Material Considerations

For outdoor or industrial installations, use Hot-Dip Galvanized (HDG) steel to resist corrosion from heat, humidity, and dust common in the GCC region. Ensure proper ventilation and heat dissipation to extend cable and tray lifespan. 7.

Inspection and Clearance

Conduct internal QA/QC inspections for alignment, support spacing, and earthing. Verify installation against approved drawings and project specifications. Obtain consultant or DEWA clearance before laying cables in trays.

8.

Final Notes

Maintain minimum bending radius for power cables to prevent damage. Use covers in areas with high mechanical risk, fixed with manufacturer-recommended clips. Allow 20% extra space in trays for future expansion.

Following these steps ensures a safe, compliant, and durable cable tray installation suitable for the Middle East's environmental and regulatory conditions.

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