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.

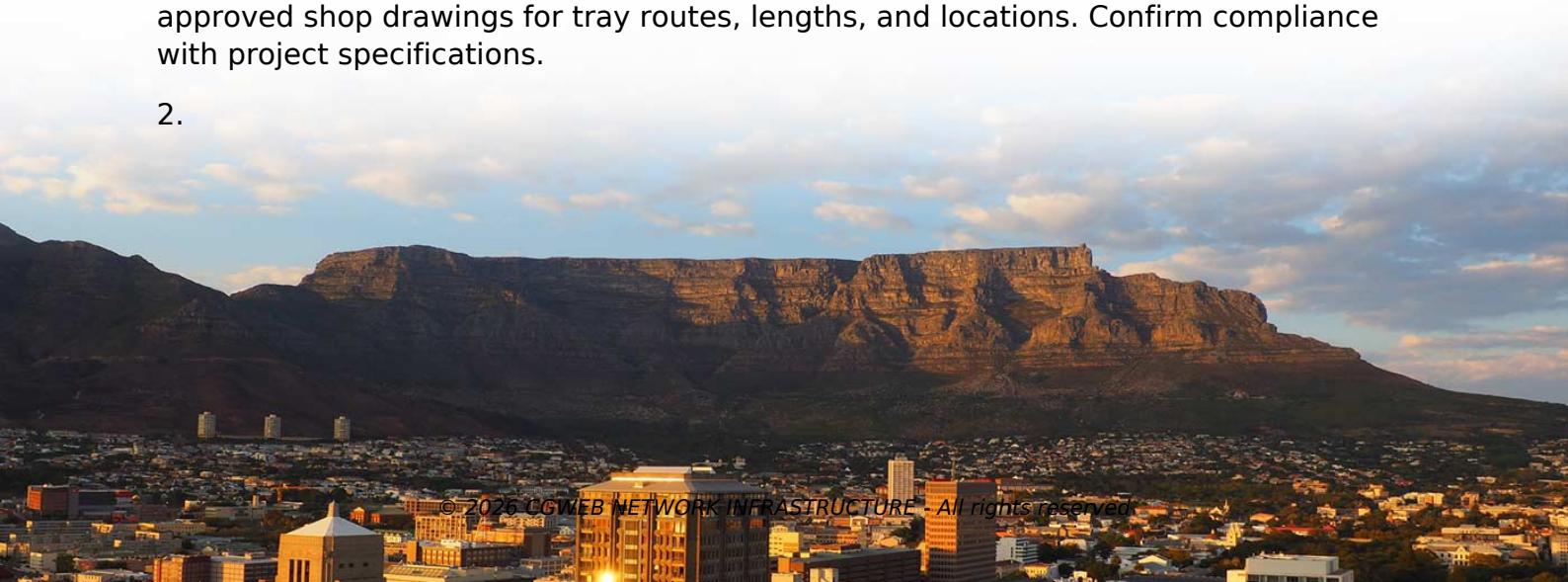
Pre-

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.



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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. 1m 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. 5m for standard loads; closer spacing may be required for heavier trays.

Use G

I 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 16mm² copper bonding conductor unless otherwise specified. For metallic trays, ensure bonding jumpers are installed every 25m 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.

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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.

Article Content

Cable Tray Products UAE | Cable Tray Management Solutions | West

Explore West Port''s cable tray products and accessories in the UAE: cable trays, trunking, GI channels, wire mesh trays, etc. Designed for performance and durability across industries.

A Comprehensive Guide to Cable Tray and Accessories in the UAE

Select the right cable tray and accessories for your UAE project. This guide covers types, materials, and installation best practices for engineers.

Cable Tray Manufacturers in Dubai, Abu Dhabi, Sharjah, UAE

Unigroup supplies perforated, ladder, and galvanized cable trays in Dubai, Abu Dhabi, and Sharjah with full support systems and installation accessories.

Cable Tray System

Easy installation gives full flexibility to add a network of support applications, without the need of any welding. The same channels can as cable raceways.

Cable Tray Suppliers for Construction & Infrastructure | West Port ...

For your upcoming project, are you interested in exploring GI cable trays, slotted channels, cable trunking, or wire mesh tray systems? We''d love to help you find the perfect solution!

How to install electrical cable trays as per DEWA

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Final Steps Install cable tray covers (where required — outdoors, dusty or mechanical areas). Label trays as per DEWA''s identification standards (tray ID, cable type/voltage).

A Comprehensive Guide to GI Cable Tray Systems for UAE & GCC

Discover how to select, size, and install the right GI cable tray for your projects in the UAE and GCC. A practical guide for engineers and contractors.

Cable Tray & Cable Trunking Solutions in UAE: A Complete Guide

Discover the best cable tray & cable trunking solutions. Learn types, materials, and best practices for safe, efficient electrical systems.

A Guide to Choosing the Right Cable Tray Trunking for UAE & GCC ...

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