ZITHA TECH SPECIALTY CABLES (Pty) Ltd

Installation of cable trays in Kazakhstan



Overview

Installation of cable trays: fastening, grounding, PUE standardsIn this article we will examine the technology of assembling and fixing metal, galvanized.

Key Takeaways

Cable tray installation in Kazakhstan requires adherence to local standards, selection of appropriate materials, and professional installation for durability and safety.Types and Materials of Cable Trays

Cable trays in Kazakhstan are available in various types including ladder, perforated, solid, and wire trays, each suited for specific cable routing needs . Materials commonly used include galvanized steel, stainless steel, and FRP (fiber-reinforced plastic), with corrosion-resistant coatings for outdoor and industrial environments . Hot-dip galvanization and stainless steel finishes ensure long-term durability, especially in temperatures ranging from -45°C to +40°C .

Standards and Compliance

Installation must comply with Kazakhstan's technical regulations and the Eurasian Customs Union (EAC) standards, including TR CU 012/2011 for hazardous areas . Cable trays and accessories should be new, unused, and designed for a minimum of 20 years. Contractors are responsible for ensuring all equipment meets local certification and technical requirements .

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Installation Considerations
• Load capacity: Choose trays based on cable weight and type, from light-duty to extra heavy-duty systems .

• Flexibility: Slot patterns and modular designs allow easy positioning of nuts, bolts, and cable ties .

• Outdoor suitability: Ensure trays are resistant to environmental factors, including UV exposure, moisture, and temperature extremes .

• Accessories: Use compatible couplings, fasteners, brackets, and covers to secure cables and maintain safety .
Suppliers and Contractors

Several companies in Kazakhstan provide supply and installation services for cable trays, including THE ANCHORS LLP, ELCOS, KazPowerTrade, and Brilltech Engineers . These suppliers offer customizable solutions, delivery, and professional installation, often with licensed contractors capable of handling industrial, commercial, and hazardous area installations .

Best Practices
• Conduct a site survey to determine tray routing and load requirements.

• Ensure segregation of power and communication cables to minimize interference.

• Follow manufacturer guidelines for mounting, spacing, and support intervals.

• Verify compliance with local safety and fire regulations.

• Plan for future expansion by selecting trays with sufficient width and modularity. By following these guidelines, new cable tray installations in Kazakhstan can achieve long-term reliability, safety, and compliance with local standards.

Article Content

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Cable Tray

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Metal tray

The tray is used to route and hold telephone and electrical cables. With the correct installation of the trays and their long lifespan,

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The document provides guidelines for installing cable trays and accessories. It outlines 15 steps for the installation process including

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Cable trays and ladders shall be complete with all manufacturer installation accessories and standard fittings (internal/external risers,

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