ZITHA TECH SPECIALTY CABLES (Pty) Ltd

Galvanized Cable Trays for Low-Voltage Electrical Engineering



Overview

Cable Trays | EAE USAHeavy duty cable trays and cable ladders are manufactured from pre-galvanized, electro-galvanized, or hot-dipped galvanized sheet Cabl.

Key Takeaways

Galvanized cable trays are steel pathways coated with zinc to support, protect, and organize electrical cables while providing corrosion resistance in low-voltage installations.Definition and Purpose

A galvanized cable tray is a metal support system used to route and protect electrical and data cables in buildings, industrial facilities, and data centers . These trays provide a structured pathway for low-voltage cables, including power, control, instrumentation, and communication lines, ensuring safety, organization, and ease of maintenance . The zinc coating on the steel prevents rust and corrosion, making them suitable for humid or chemically active environments .

Types of Galvanized Cable Trays

Galvanized cable trays can be classified based on surface treatment and tray design:

• Surface Treatment Types:
• Pre-galvanized trays: Steel is galvanized before forming into trays, ensuring uniform zinc coverage and corrosion protection .

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• Hot-dip galvanized (HDG) trays: Steel is dipped in molten zinc after fabrication, providing a thicker, more durable coating for harsh environments .

• GI (galvanized iron) trays: Standard galvanized steel with moderate corrosion resistance .

• Tray Design Types:
• Ladder trays: Two side rails connected by cross members, ideal for heavy power cables and ventilation .

• Perforated trays: Solid base with holes for ventilation and cable tie points, suitable for lighter cables .

• Wire mesh or basket trays: Open mesh design for flexible routing and easy installation .

• Solid bottom trays: Fully enclosed base for sensitive cables requiring protection from dust or liquids .

Advantages in Low-Voltage Systems
• Corrosion Resistance: Zinc coating forms a protective layer that prevents rust, even in humid or chemically active environments .

• Mechanical Strength: Steel construction supports heavy low-voltage cables, including power and control lines .

• Fire Safety: Steel does not burn, reducing fire hazards near electrical components .

• Ease of Installation and Maintenance: Modular design allows quick cutting, joining, and future expansion .

• Longevity: Galvanized trays can last over five years in challenging environments without additional treatment, outperforming painted trays .
Applications

Galvanized cable trays are widely used in:

• Commercial buildings for structured low-voltage wiring.

• Industrial plants with heavy machinery and automation systems.

• Data centers and electronic component rooms where cable organization and protection are critical . By selecting the appropriate type and galvanization method, engineers can ensure durable, safe, and efficient cable management for low-voltage electrical systems.

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Our Galvanized Steel Cable Trays are engineered for utility solar mounting applications. And made of High

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