Steel cable trays specifically designed for cable tray manufacturing

Overview

Engineered Cable Trays for Data Centers| Marlin Steel Marlin Steel's wire mesh cable trays are designed for high-performance cable management in data Cable.

Key Takeaways

Steel cable trays are engineered systems designed for safe, durable, and flexible routing of electrical and instrumentation cables in industrial, commercial, and data center environments.Types of Steel Cable Trays

Steel cable trays come in several designs to meet different installation and load requirements:

• Ladder Trays: Open structure with side rails and rungs, ideal for heavy-duty industrial applications, high cable density, and excellent ventilation ( ).

• Perforated Trays: Solid base with holes for ventilation, suitable for medium loads and environments requiring cable protection ( ).

• Wire Mesh Trays: Flexible, lightweight, and easy to install, optimized for airflow and high-density cabling in data centers ( ).

• Closed/FC Trays: Fully enclosed trays for environments where cable isolation and protection from dust or moisture are critical ( ).
Materials and Finishes

Steel cable trays are manufactured using high-quality materials to ensure strength, corrosion resistance, and long-term performance:

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• Mild Steel: Often pre-galvanized or hot-dip galvanized for indoor and outdoor use ( ).

• Stainless Steel (304 or 316): Provides superior corrosion resistance, especially in chemically aggressive or coastal environments ( ).

• Powder Coating/Zinc Plating: Cost-effective options for controlled indoor environments ( ).

Design Features

Modern steel cable trays are engineered for durability, load capacity, and ease of installation:

• Side Return Flanges: Increase load-bearing capacity and prevent cable damage ( ).

• Slot Patterns: Facilitate cable tie placement and equipment mounting ( ).

• Custom Heights and Widths: Standard heights range from 50 mm to 100 mm, with widths from 50 mm to 600 mm, and custom sizes available ( ).

• Interlocking and Modular Systems: Allow for easy assembly, expansion, and integration with accessories like elbows, junctions, and covers ( ).

• Load Considerations: Designed to support the dead load of cables, pipes, and equipment, with allowances for future expansion ( ).

Compliance and Standards

Steel cable trays are manufactured to meet international and regional standards:

• EN 61537: European standard for cable tray and ladder systems ( ).

• UL Standards: Ensures safety and performance in industrial and commercial installations ( ).

• Testing and Certification: Many manufacturers provide independent testing for structural integrity and load performance ( ).

Applications

Steel cable trays are widely used in:

• Industrial Plants: Heavy-duty ladder trays for high-temperature and high-load environments ( ).

• Data Centers: Wire mesh trays for airflow and high-density cabling ( ).

• Commercial Buildings: Perforated or closed trays for medium loads and cable protection ( ).

• Infrastructure Projects: Custom trays for energy, transportation, and instrumentation systems ( ).

Accessories and Protection

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To ensure complete cable management, steel cable trays are often paired with:

• Covers: Protect cables from dust, moisture, and mechanical impact ( ).

• Supports and Fixings: Modular brackets, hangers, and splicing plates for secure installation ( ).

• Grounding and Bonding: Pre-marked holes and copper jumpers ensure electrical continuity ( ). Steel cable trays are a versatile and reliable solution for modern cable management, offering customizable designs, robust materials, and compliance with safety standards to meet the demands of industrial, commercial, and data center installations.

Article Content

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Marlin Steel''s wire mesh cable trays are designed for high-performance cable management in data

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At Marlin Steel, we manufacture wire mesh cable trays in various configurations to suit specific data center

Stainless Steel Wire Mesh Cable Tray

The stainless steel wire mesh cable tray is a specially designed and manufactured system that utilizes a wire basket with a diameter

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