Stainless steel cable trays and aluminum alloy metal cable trays



Overview

Choose from our selection of cable trays, including over 850 products in a wide range of styles and sizes. Same and Next Day Delivery.

Key Takeaways

Stainless steel and aluminum alloy cable trays offer durable, corrosion-resistant, and lightweight solutions for efficient cable management across industrial, commercial, and marine environments.

Material Properties

Stainless Steel Cable Trays

Made from AISI 304, 316, or 316L grades, providing excellent corrosion resistance and chemical durability, ideal for harsh or aggressive environments such as chemical plants, coastal areas, and offshore installations. High mechanical strength allows support for heavy cable loads without bending or sagging, making them suitable for industrial and high-voltage applications. Resistant to heat, UV radiation, and moisture, ensuring long-term reliability and minimal maintenance.

Available in various designs including ladder, perforated, solid bottom, and channel types, often with enclosed covers to protect cables from dust, water, and mechanical damage.

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Aluminum Alloy Cable Trays

Lightweight, approximately one-third the weight of steel, which simplifies installation and reduces structural load. Naturally corrosion-resistant, particularly suitable for coastal, marine, and chemical environments. Provides good mechanical strength for supporting medium to heavy cable loads, though less than stainless steel, and ensures efficient heat dissipation to prevent cable overheating.

Resistant to electromagnetic interference (EMI), UV radiation, and extreme temperatures, making them suitable for sensitive electronic environments and data centers.

Applications

Industrial and Power Plants: Supporting high-voltage and heavy-duty cables over long spans. Chemical and Petrochemical Plants: Corrosion-resistant solution for aggressive chemical exposure. Marine and Offshore Industries: Ideal for coastal areas, oil rigs, and offshore platforms due to corrosion resistance and lightweight properties.

Commercial and Residential Buildings: Structured wiring, HVAC systems, and IT infrastructure. Data Centers: Prevents EMI and ensures proper cable management for sensitive equipment.

Advantages

Durability and Longevity: Both materials resist corrosion, rust, and chemical damage, ensuring long service life. Ease of Installation: Aluminum's lightweight nature reduces labor and structural support requirements, while stainless steel provides robust support for heavy loads. Versatility: Available in ladder, perforated, solid bottom, and channel types, with optional covers for protection against dust, water, and mechanical impact.

Maintenance: Minimal upkeep required due to corrosion resistance and mechanical stability.

Selection Considerations

Load Requirements: Stainless steel is preferred for very heavy cable loads; aluminum is suitable for moderate loads where weight reduction is important. Environmental Exposure: Stainless steel excels in chemically aggressive or high-humidity environments; aluminum is ideal for coastal or marine applications. Installation and Cost: Aluminum is easier to handle and install, potentially reducing labor costs, while stainless steel offers superior strength and durability for long-term heavy-duty use.

Both stainless steel and aluminum alloy cable trays provide robust, reliable, and corrosion-resistant solutions for cable management, with the choice depending on load, environmental conditions, and installation requirements.

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Article Content

Cable Trays | McMaster-Carr

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Aluminum vs. Stainless Steel Cable Trays in Energy

Aluminum is much lighter and it is easier to transport, stainless steel is the strongest factor in very hot or acidic areas. On numerous occasions, I

Cable trays

We offer a wide range of cable tray systems to support tubing, electrical cables and instrumentation. Our cable trays are produced in fit for purpose materials like

Cable Trays

Our cable ladder systems are available in Hot-Dip Galvanised (HDG) and stainless steel, with optional aluminium ladder trays for lightweight or corrosion-sensitive

Aluminum & SS Cable Trays – GM ENGINEERS

Aluminum and stainless steel cable trays provide robust, reliable, and corrosion-resistant solutions for cable management in various industries.

Comparing Electrical Cable Tray Materials-Aluminium,

Aluminium, steel, or plastic? Compare key features of electrical cable tray materials to find perfect match for your building''s requirements.

Aluminum vs HDG vs Stainless Steel Cable Tray

Compare aluminum, HDG, and stainless steel cable trays by corrosion resistance, ISO 12944 class, structural strength, and lifecycle cost for your project.

Cable Tray Systems

Over the past 55+ years, MP Husky US Cable Tray has engineered and manufactured the most reliable, highest quality, cost effective and innovative

Cable Tray Selector

MP Husky''s cable tray selector for choosing the correct tray type (ladder, solid bottom, perforated, wire mesh) and size based on load, cable type and

Complete Guide to Metal Cable Tray Materials in

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Explore metal cable tray materials, their benefits, and applications in industrial settings for reliable cable management solutions.

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Cable Tray, Cable Trunking, Perforated Cable Tray

JINHENG Electric offers cable ladder with multiple style, wide load capability requirements, different cable laying depths available and such kinds of materials as hot dip galvanized steel, galvanized

Cable Trays Market Size, Share, Growth, Analysis, 2034

Cable Trays Market Size, Share & Trends Analysis Report By Product Architecture (Ladder Cable Trays, Wire Mesh (Basket) Trays, Solid Bottom/Trough Trays), By Material (Steel (Hot-Dip/Pre

Cable Tray Technical Guide A practical guide to product selection and ...

Cable Tray Technical Guide A practical guide to product selection and installation This guide for engineers and installers has been developed by ABB as a practical reference regarding cable tray

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