

Cable tray hanging materials



Overview

Choose from our selection of cable tray accessories, including cable and hose trays, steel formable cable and hose trays, and more.

Key Takeaways

Cable tray hanging systems use materials like steel, stainless steel, aluminum, and fiberglass, with supports including trapeze hangers, single hangers, and wall brackets to ensure safe, stable, and corrosion-resistant installations. Common Hanging Methods

Trapeze Hangers: The most popular choice, consisting of two vertical rods and a horizontal bar, ideal for heavy power cables and multiple stacked trays. They provide excellent stability and load distribution . **Single Hanger Supports:** Use a single rod or bolt to suspend the tray. Suitable for light cables such as internet or phone lines, but not recommended for heavy power cables . **Wall Brackets and Arms:** Metal arms fixed directly to walls, used when ceilings are obstructed or for high-mounted trays. Proper anchoring is critical to prevent slippage under load . **Center Supports:** Used for long spans to prevent sagging, often in combination with trapeze or single hangers .

Materials for Hanging Systems



Steel: Most common for industrial and commercial applications due to high strength and load-bearing capacity. Variants include galvanized steel for general corrosion resistance and stainless steel for harsh or chemical environments . **Aluminum:** Lightweight and naturally corrosion-resistant, suitable for indoor or moderate outdoor use. Aluminum is easier to handle but less strong than steel for heavy loads . **Stainless Steel:** Offers superior corrosion resistance, ideal for chemical plants, coastal areas, or food processing facilities. Grades like 304 or 316 are commonly used . **Fiberglass (FRP):** Non-conductive, corrosion-resistant, and suitable for highly corrosive environments. It is lightweight and fire-resistant, often used in chemical plants or marine settings . **Plastic/PVC:** Lightweight and corrosion-proof, but limited to light-duty applications and indoor use .

Installation Considerations

- **Support Spacing:** For heavy power cables, supports should be spaced 1.5–2 meters apart; for light data cables, spacing can extend to 3 meters .
- **Load Capacity:** Always select hangers rated above the expected cable weight, with a recommended safety margin of 25% .
- **Corrosion Protection:** Match hanger material and finish to the environment. Hot-dip galvanized steel for outdoor or wet areas, electro-galvanized for dry indoor use, and stainless steel for chemical exposure .
- **Vibration and Stability:** Use lock nuts and sway bracing for long rods or areas with machinery-induced vibrations .

Summary

Choosing the right cable tray hanging materials involves balancing load requirements, environmental conditions, and installation type. Steel and stainless steel are preferred for heavy-duty and corrosive environments, aluminum for lightweight applications, and fiberglass for chemical resistance. Proper hanger selection, spacing, and corrosion protection ensure a safe, durable, and efficient cable management system .

Article Content

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Learn how to choose the best cable tray system for your needs. Explore types, materials,

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Common cable trays are made of galvanized steel, stainless steel, aluminum, or glass-fiber reinforced plastic. The material for a

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