

Aerospace cable clipping



Overview

Aero Fastener stocks a wide variety of aircraft clips. Browse our selection of aerospace clips today! Same-day shipping available.

Key Takeaways

Aerospace cable clips are precision-engineered components used to secure cables, wires, and tubing in aircraft, ensuring safety, reliability, and streamlined manufacturing processes.

Overview
Aerospace cable clips are small but critical components designed to hold and organize cables, wires, and hoses within aircraft systems. They prevent movement, reduce wear, and maintain proper routing, which is essential for both operational safety and maintenance efficiency. These clips are widely used in avionics, hydraulic systems, and electrical assemblies throughout the aircraft .

Materials and Types

Clips are manufactured from a variety of metallic and non-metallic materials depending on the application:

- Metals: Stainless steel, aluminum, titanium, carbon steel, beryllium copper, and Inconel (super alloy) for high-strength and heat-resistant applications .
- Non-metals: Nylon, polyimide, fiberglass, and phenolic for lightweight or electrically insulating requirements .

- Specialized clips: Brass clips with cadmium-plated steel nuts, aluminum alloy loop-type clamps, and cushioned P-clips for tubing or conduit . Common types include P-clips, loop clamps, wire rope clips, and cushioned clamps, each designed for specific cable diameters, load capacities, and environmental conditions .

Applications and Standards

Aerospace clips are safety-critical components. They are used to:

- Secure electrical wiring and prevent chafing or vibration damage.
- Organize hydraulic and pneumatic tubing.
- Facilitate assembly and maintenance by providing consistent cable routing. They are manufactured to stringent quality control standards to meet aerospace and defense industry regulations, ensuring repeatable performance and reliability . Some clips are designed for extreme loads, such as drop-forged wire rope clips, while others are for general-purpose applications .

Suppliers and Manufacturing

Leading suppliers like Lamsco West, Avantus Aerospace, Aero Fastener, and LAS Aerospace provide a wide range of clips with customizable geometries, materials, and finishes. Many offer in-house design, CNC machining, and finishing services, allowing for rapid production and supply chain consolidation .

Key Considerations

When selecting aerospace cable clips, consider:

- Material compatibility with the environment (temperature, corrosion, electrical insulation).
- Load and vibration resistance for the specific application.
- Ease of installation and maintenance.
- Compliance with aerospace standards such as QQ-A-362 for aluminum alloy clamps . Aerospace cable clips, though small, are essential for aircraft safety, operational efficiency, and long-term reliability. Proper selection and installation ensure that wiring and tubing remain secure under the demanding conditions of flight.

Article Content

Aircraft Cable Clips & Wire Rope Clips for Sale | Aero Fastener

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Electro galvanized malleable wire rope clips are used in general purpose applications while drop forged clips are recommended for

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