

RIVO MULTITRADE OPTICAL SYSTEMS

American Antistatic Flooring Cable Trays



Overview

Cable trays keep wires in place while allowing air flow in raised access floor systems. Our system installs in seconds without tools.

Key Takeaways

American antistatic flooring cable trays provide low-loss, ESD-safe cable management with high durability, modularity, and compliance with industry standards.

Antistatic cable trays are designed to safely dissipate static charges in sensitive environments such as electronics manufacturing, data centers, and telecommunications facilities. American manufacturers, such as US Tray by Atkore, produce made-to-order trays that meet NEMA standards and UL certifications, ensuring both safety and regulatory compliance. These trays are engineered for low electrical resistance, typically in the range of 10^4 to 10^9 ohms, to minimize static buildup and prevent ESD-related damage.

Material and Construction

Common materials include galvanized steel, stainless steel (grades 304 or 316), and conductive polymers, offering a balance of corrosion resistance, mechanical strength, and low-loss electrical performance. Wire mesh or basket-style trays allow continuous airflow, reducing heat accumulation and protecting cables from dust and debris. Solid or perforated bottom trays are also available for applications requiring additional protection or load support.

Design and Installation

American antistatic flooring cable trays are often modular and customizable, allowing easy reconfiguration in access floor systems. Systems like the ACT/FloorFlex allow trays to be installed as low as 1.25 inches from the finished floor, supporting heavy loads with 18-gauge horizontal supports on 24-inch centers . Positive grounding is provided at regular intervals to maintain ESD safety. Many trays feature quick-latch or pre-punched connections, reducing installation time and labor costs .

Performance and Compliance

Key performance metrics include:

- Load capacity: Supports both static and dynamic loads, suitable for high-traffic areas .
- ESD protection: Meets IEC 61340 or ANSI/ESD S20.20 standards .
- Fire and safety ratings: UL94 flammability compliance and NEC electrical safety adherence .
- Durability: Resistant to corrosion, impact, and environmental factors such as humidity and temperature fluctuations . Low-loss trays ensure minimal signal interference and maintain cable integrity, which is critical in high-speed data and telecommunications applications.

Additional Considerations

When selecting antistatic flooring cable trays:

- Evaluate material and surface resistance for ESD safety.
- Consider modularity and retrofitting capability for evolving layouts .
- Factor in lifecycle cost, including installation, maintenance, and potential downtime due to ESD failures .
- Ensure compatibility with access flooring systems and adherence to Buy American requirements if applicable .

Suppliers and Options

- US Tray (Atkore): Offers wire basket, I-beam, C-channel, and solid/vented bottom trays, all made in America with UL certification .
- Access Cable Trays (ACT/FloorFlex): Flexible, low-profile trays suitable for office and computer room environments, easily reconfigurable .
- McMaster-Carr: Provides interlocking floor cable ramps and multichannel trays for light to medium traffic areas . These options provide low-loss, antistatic performance while supporting durable, safe, and flexible cable management in American facilities.

Article Content

Floor Cable Trays | McMaster-Carr

Tear this tape by hand, then position it on any clean surface, including carpeting. Adhesive on the edges keeps the tape in place,

Cable Trays | Underfloor Raised Access Floor System Organization

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Cable Tray Types and Sizes

These cable tray systems serve as efficient alternatives to traditional wireways and electrical conduits, which fully enclose cables.

B-Line series Cable Tray Design Considerations

Is your cable tray system optimized for safety, dependability, space and cost savings? Cable tray (or cable ladder) systems are a

Cable Tray Systems

MP Husky is a founding member of the USA Cable Tray Institute and the leader in US cable tray systems and cable support

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American Data Supply offers access flooring systems and cable tray systems from several manufacturer's. Multilink's ConnectFloor

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