

RIVO MULTITRADE OPTICAL SYSTEMS

Cable trays and duct units



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

Cable trays and duct units are essential cable management systems that organize, protect, and support electrical and data cables in industrial, commercial, and residential installations. Cable Trays

Definition and Purpose: Cable trays are rigid or semi-rigid structures designed to guide, support, and protect electrical, telecommunication, and data cables. They provide a safe pathway for cables, prevent tangling, and allow easy access for maintenance or future expansion . Materials: Common materials include galvanized steel, aluminum, stainless steel, and FRP (fiber-reinforced plastic). Some trays are made from halogen-free or self-extinguishing materials to meet fire safety standards .

Types of Cable Trays:

- Ladder-type trays: Feature two side rails connected by rungs, ideal for heavy-duty power cables, offering excellent ventilation and structural support .
- Perforated trays: Provide partial protection against dust and debris, suitable for moderate cable loads .
- Wire mesh (basket) trays: Lightweight and flexible, perfect for data cabling in IT or commercial buildings .

- Solid bottom trays: Offer full protection against environmental factors like moisture or chemical exposure .

- Channel trays: Compact and used for smaller cable bundles or specific routing needs . Benefits:

- Protect cables from mechanical damage, dust, moisture, and heat .

- Improve airflow around cables, reducing heat buildup .

- Facilitate organized cable routing and easy maintenance .

- Comply with international standards such as IEC 61537, EN 50085, and UL94 .

Installation Considerations: Proper tray placement ensures sufficient clearance for inspection, maintenance, and adherence to bending radius requirements. Suspension systems and supports can be customized for heavy-duty or complex installations .

Duct Units (Cable Trunking)

Definition and Purpose: Duct units, also known as cable trunking, are enclosed channels that protect and conceal cables. They are commonly used in office, commercial, and residential environments where aesthetics, safety, and organization are important . Materials and Types: Ducts are typically made from PVC, steel, or aluminum, and can be covered, locked, or perforated depending on the application. They are suitable for separating power and data cables to prevent interference .

Benefits:

- Provide full protection against dust, moisture, and accidental contact .

- Maintain a neat and organized appearance, especially in visible areas .

- Allow easy access for cable modifications while keeping cables concealed .

Choosing Between Cable Trays and Duct Units

- Industrial or high-volume installations: Cable trays are preferred due to their strength, ventilation, and ability to handle large cable bundles .

- Office or aesthetic-sensitive environments: Duct units are ideal for concealing cables while maintaining safety and organization .

- Hybrid solutions: In complex installations, both systems can be used together—trays for main cable runs and ducts for final distribution or visible areas .

Conclusion: Both cable trays and duct units are critical for safe, efficient, and organized cable management. Selection depends on cable type, load, environment, accessibility, and aesthetic requirements, ensuring compliance with safety standards and long-term reliability .

Article Content

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Cable Trays and Fittings For ease of installation and accessibility, lay cable and hose in trays instead of pulling it through conduit or

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A cable tray system is used to support insulated electrical cables used for power distribution, control, and communication. Cable

Cable Tray Types and Sizes

What is Cable Tray Systems? An electrical cable tray is a type of containment system used to support insulated electrical cables for

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Wire Cable Trays | McMaster-Carr

Steel Formable Cable Trays and Fittings Cut, bend, and connect these wire mesh tray systems to route cable and hose 38 products

Cable Trays Compared to Other Products

Cable trays are a key component in modern electrical systems, offering superior load-bearing capacity, flexibility, and

7 Types of Cable Trays: How to Choose the Right One

Cable tray systems are engineered support structures designed to route, support, and protect insulated electrical

Understanding cable trays

For raceways terminating at a tray, a listed cable tray clamp or adapter fastens the raceway to the cable tray system.

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Cable Trays and Ducts: A Comprehensive Guide

Cable Trays and Ducts: A Comprehensive Guide Effective management of electrical and data cabling is crucial for the safety,

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What are Cable Trays & Different Types of Cable Trays

These trays provide a reliable, rigid, and durable structural system that is used to accommodate all types of electric

Cable Troughs – Straight Units

FP McCann's precast concrete cable troughs and service ducts systems are used to house and protect most types of services. All

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