

RIVO MULTITRADE OPTICAL SYSTEMS

Cage-type cable trays for cable placement



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

Cage-type cable trays, also known as wire mesh trays, are open, welded wire structures designed to support and organize cables efficiently while allowing excellent ventilation and easy access.

Cage-type cable trays are constructed from high-strength steel wires welded into a mesh pattern, forming a lightweight yet durable tray for routing electrical, data, and instrumentation cables. Their open design allows airflow around cables, reducing heat buildup, and provides easy access for installation, inspection, and maintenance. These trays are particularly suitable for light to medium cable loads and are often used in commercial, industrial, and data center environments.

Key Features

- **Open Mesh Design:** The wire grid allows cables to be laid in bundles and secured with cable ties, while also providing natural ventilation to prevent overheating.
- **Material Options:** Common materials include galvanized steel, stainless steel, aluminum, and fiberglass (FRP/GRP), chosen based on environmental conditions such as moisture, chemical exposure, or outdoor installation.

- **Flexibility:** Cage-type trays can be easily cut, bent, or shaped on-site to navigate around obstacles, making them ideal for complex routing .
- **Lightweight and Cost-Effective:** Compared to solid or ladder trays, wire mesh trays are lighter and often more economical, while still providing sufficient support for most cable types .

Applications

- **Data Centers and IT Installations:** Ideal for network and communication cables due to easy access and minimal interference .
- **Instrumentation and Control Systems:** Supports small-diameter cables while maintaining separation and organization .
- **Commercial and Industrial Buildings:** Used for general electrical wiring where moderate load and ventilation are required .

Installation Considerations

- **Mounting Methods:** Can be suspended from ceilings, wall-mounted, or surface-mounted depending on structural requirements .
- **Rung Spacing:** Typically, 6 to 9 inches (150-230 mm) between cross wires is recommended to maintain cable support and prevent sagging .
- **Cable Management:** Cables are secured with ties or clamps, and the open design allows for easy addition or removal of cables without major modifications .
- **Environmental Protection:** For corrosive or outdoor environments, stainless steel or coated finishes are preferred to ensure longevity .

Advantages

- Excellent ventilation and heat dissipation.
- Easy installation and modification of cable runs.
- Lightweight and adaptable to complex layouts.
- Cost-effective for medium-duty applications. Cage-type cable trays provide a practical, flexible, and efficient solution for organizing and supporting cables in a wide range of installations, balancing accessibility, ventilation, and structural support .

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