

Specifications and Models of Mesh Cable Trays and Cable Trays

Article Overview

Mesh cable trays and traditional cable trays come in various models, materials, and finishes, designed for flexible, safe, and efficient cable management in diverse environments.

Mesh Cable Trays

Mesh cable trays are open-grid systems ideal for routing cables horizontally or vertically, offering excellent ventilation and easy access for cable installation and maintenance . Key specifications and features include:

- o Materials and Finishes: Steel (pre-galvanized, hot-dip galvanized), stainless steel (AISI 316L), and aluminum; optional coatings include zinc, epoxy, or powder coatings for corrosion resistance .
- o Temperature Range: Typically suitable for -20°C to +120°C, depending on material and corrosion protection .
- o Designs and Shapes: Available in U, C, G, or W-shaped profiles with heights such as 30 mm, 53 mm, 60 mm, and 103 mm; custom sizes can be produced on request .
- o Load Capacity and Flexibility: High load capacity with easily separable wires for creating bends, branches, and exits; supports all cable types and diameters .
- o Installation Options: Can be mounted on walls, ceilings, roofs, or raised floors using profile rails or direct mounting; compatible with matching covers and connectors (GV 30, GVD, GVU) for quick assembly .
- o Applications: Suitable for data centers, industrial machinery, hygienic areas, and environments requiring minimal heat buildup and easy cable visibility .

Traditional Cable Trays

Traditional cable trays include solid-bottom, ventilated, and channel trays, designed to support and protect cables while maintaining spacing and bend radius . Key specifications include:

- o Materials: Steel (pre-galvanized, hot-dip galvanized), stainless steel, aluminum, and pultruded fiberglass for high corrosion resistance .
- o Designs: Solid, ventilated, or ladder-type trays; rung spacing typically 150-230 mm to maintain cable support and airflow .
- o Load and Environmental Considerations: Selection of material and finish depends on environmental conditions, including exposure to moisture, chemicals, or high temperatures .
- o Standards and Compliance: CE marking, UL, NEMA, and other certifications ensure compliance with safety and performance standards .
- o Accessories: Covers, bends, tees, reducers, and dropouts are available to facilitate complex routing and protect cables from mechanical damage .

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Summary

Mesh cable trays are flexible, ventilated, and easy to modify, making them ideal for dynamic installations and environments where heat dissipation and cable visibility are important. Traditional cable trays provide robust support and protection, suitable for heavy-duty or high-density cable installations. Both systems offer a range of materials, finishes, and accessories to meet specific environmental and load requirements, ensuring safe and efficient cable management .

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Continuous, rigid, welded steel or stainless steel wire mesh cable management system. Cable tray systems are defined to include,

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We're expanding our Wire Mesh Tray offering with new 30-inch and 36-inch widths - and the 36-inch tray

B. Cable tray systems are defined to include, but are not limited to straight sections of [ladder type] [trough type] [solid bottom type]

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