

RIVO MULTITRADE OPTICAL SYSTEMS

Aluminum Alloy Cable Management Frame Dimensions and Specifications



Overview

Series 1, 2, 3, 4, 5 Alum Specification Document Construct units with rounded edges and smooth surfaces; in compliance with applicable standards; and with.

Key Takeaways

Aluminum alloy cable management frames are lightweight, corrosion-resistant, and designed for high load capacity, with materials typically including Aluminum 6063 and 5052 alloys. Material and Construction

Aluminum cable management frames are primarily constructed from Aluminum Association Alloy 6063 for straight sections and rungs, while fabricated parts use Alloy 5052 for enhanced durability and corrosion resistance. Ladder cable trays consist of two longitudinal side rails with transverse rungs welded to the rails, providing structural integrity and support for heavy cable loads. The frames feature rounded edges and smooth surfaces to ensure safety and ease of installation.

Dimensions and Load Capacity

- Rung spacing: Typically 6, 9, or 12 inches, with radiused fittings at 9 inches center-to-center.
- Tray widths: Standard widths include 6, 9, 12, 18, 24, 30, and 36 inches.
- Tray lengths: Common straight section lengths are 10 ft (3 m), 12 ft, 20 ft (6 m), and 24 ft.

- Load capacity: Each rung supports a 200 lb concentrated load at the center with a safety factor of 1.5 .

- Cable tray depth: Available in 3, 4, 5, or 6 inches per NEMA VE 1 standards .

Design Features

- Side rails: Fabricated as I-beams for maximum structural strength .

- Splice plates: Wedge-Lock design with four nuts and bolts per plate, ensuring electrical continuity with resistance not exceeding 0.00033 ohm .

- Fittings: Minimum radius options of 12, 24, 36, or 48 inches .

- Thermal conductivity: Aluminum's high thermal conductivity prevents cable overheating, enhancing safety .

- Corrosion resistance: Lightweight aluminum provides long-term durability in indoor and outdoor environments .

Applications and Advantages

Aluminum alloy cable management frames are suitable for industrial, commercial, and data center applications. They offer:

- Lightweight design: Approximately half the weight of steel equivalents, simplifying installation .

- High load resistance: Supports dense cable transitions and heavy cable loads .

- Flexibility and durability: Resistant to impacts and environmental factors .

- Ease of installation: Compatible with a wide range of fittings, covers, and accessories .

Accessories

Additional components include cable management arms, mounting hardware, and straps to maintain organized cable layouts within enclosures or racks . These accessories help reduce cable stress and improve overall system reliability. In summary, aluminum alloy cable management frames combine lightweight construction, high load capacity, corrosion resistance, and compliance with industry standards to provide a reliable solution for organizing and supporting electrical and data cables in diverse environments .

Article Content

Full cable tray and cable management NEMA catalog

Aluminum cable tray has excellent corrosion resistance in many chemical environments and has been used for over thirty years in

PRODUCT BROCHURE T&B® Cable Tray Specialty aluminum

Technical specifications Load ratings: 1.5 safety factor. All tray sections will support an additional 200 lb concentrated load on any

Aluminum Cable Tray

Aluminum Cable Tray systems are lighter than steel cable tray and Certified CSA Cable Tray, UL listed, NEMA and certified.

Aluminum Cable Ladder | Cable Ladder Support

The AH Cable Ladder System is designed for lightweight handling, installation, and long corrosion resistance in mind. As well as

Aluminum Cable Tray | EAE USA

The Aluminum Cable Ladder has a high loading capacity to manage dense cable transitions. Designed with a lightweight structural

Aluminum Cable Ladder Specifications | PDF | Screw | Length

Specifications are given for the I-beam side rails, rungs, splices, fittings, and load capacities. Dimensions, classifications, spans,

Aluminum Cable Tray Specifications | PDF | Mechanical Engineering

The document provides detailed specifications for aluminum cable trays, including features, accessories, material compliance, and

Cable Management Systems | Jonathan Engineered Solutions

Available in aluminum, stainless, and carbon steel like every JES product, our cable management systems vary in height and

653 Series Snake Tray Aluminum Cable Tray | Snake Tray

Aluminum Cable Trays are a light weight for easier installation while offering a high loading capacity to manage large cable runs.

Cable Tray Systems

Durable and reliable cable tray systems providing premium performance in commercial and industrial applications, available in a

Channel cable tray specification document

2.05 General: Except as otherwise indicated, provide ventilated metal channel cable trays, of types, classes and sizes indicated with

Aluminum Cable Tray FAQ: Selection and Technical Specifications

Aluminum cable trays have become a preferred solution for modern cable management systems due to their lightweight nature,

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Ladder Trays | Cable Tray and Reels | Wire and Cable Management

Explore our full collection of Metallic Ladder 3D Drawings, including horizontal fittings, vertical fittings and metallic tray.

Electrical Installation & Cable Management

Electrical Installation & Cable Management 1 Conduit 45 AL Cable Management System Click here for all components Conduit AL

Metallic Cable Tray | PDF Catalogues | ABB Electrification Canada

Browse our T&B galvanized metallic cable tray systems. More adaptable and easier to maintain than conduit pipe,

Series 5C Aluminum Pipe Cable Railing Specification Sheet

Pipe: Post RAILING MATERIALS B. Base Flanges, 429. B Pickets: Aluminum extrusions; alloy and temper 6063-T4 or 6063-T6 for

Aluminum Cable Ladder Specifications | PDF | Screw | Length

The document discusses aluminum cable ladder products from series 2, 3, 4, and 5. It provides information on straight sections,

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

