

Specifications of Aluminum Alloy Cable Tray



AI Overview

Aluminum alloy cable trays are typically made from AA 6063 for side rails and AA 5052 for fabricated parts, with standardized rung spacing, load ratings, and compliance with NEMA, UL, and CSA standards. Material and Construction Aluminum cable trays are constructed using Aluminum Association Alloy 6063 for straight section and fitting side rails, while all fabricated parts are made from Alloy 5052 for enhanced corrosion resistance and mechanical strength. Ladder-type trays consist of two longitudinal side rails with transverse rungs welded to the rails. All edges and welds are rounded and smooth to prevent cable damage. The trays are lightweight, making them easier to handle and install compared to steel trays. Dimensions and Rung Spacing Rung spacing: Standard spacing is 6, 9, or 12 inches, with radiused fittings typically using a 9-inch center measurement. Tray widths: Common widths include 6, 9, 12, 18, 24, 30, and 36 inches. Tray depths: Standard depths range from 3 to 6 inches per NEMA VE 1 guidelines. Tray lengths: Straight sections are supplied in 10, 12, 20, or 24-foot lengths. Load Ratings and Safety Each tray section is designed to support an additional 200 lb concentrated load on any portion of the tray (side rail, rung, etc.) above the cable load, with a safety factor of 1.5. Straight sections have side rails fabricated as I-beams to enhance structural strength. Continuous spans may reduce deflection by up to 50%, and deflection factors can be applied for lighter loads. Fittings and Splice Plates Splice plates: Wedge-Lock design with 4 nuts and bolts per plate ensures minimal electrical resistance (≤ 0.00033 ohm) between adjacent sections. Fittings: Minimum bend radii are typically 12, 24, 36, or 48 inches, depending on the installation requirements. Standards and Certifications Aluminum cable trays are CSA certified, UL listed, and compliant with...

Article Content

26 05 36 Cable Trays for Electrical Systems

Eaton B-Line series Engineer-approved equal METAL CABLE TRAYS Description: This product category covers metal cable trays and metal cable tray systems intended for field assembly and for

PRODUCT BROCHURE T& B® Cable Tray Specialty aluminum solutions

Technical specifications Load ratings: 1.5 safety factor. All tray sections will support an additional 200 lb concentrated load on any portion of tray (side rail, rung, etc.) above and beyond published load class.

Aluminum Cable Tray FAQ: Selection and Technical Specifications

This article compiles frequently asked questions regarding the selection and technical specifications of aluminum cable trays, providing professional answers to help you make informed decisions.

Series 1, 2, 3, 4, 5 Alum Specification Document.pdf

Cable tray shall be installed according to the latest revision of NEMA VE 2. Materials and Finish: Straight section and fitting side rails and rungs shall be extruded from Aluminum Association Alloy 6063. All

AEONS Premium Monitor Laptop Mount & Under Desk Cable Management Tray ...

Overview Brand : AEONS Color : Black, Silver Material : Polycarbonate Style : Bundle A Product Dimensions : 21.8"L x 16"W About this item CREATE YOUR FAVORITE WORKSPACE: this bundle

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Report on Cable Tray Supplier Selection Strategies

Aluminum Alloy: Lightweight, suitable for scenarios with strict weight requirements. Load Capacity: Determine the required load capacity based on

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Aluminum Cable Tray, Aluminum Ladder Cable Tray

Aluminum cable trays of NewReach are built in the USA and tested to meet UL, CSA, NEMA, NEC, and ISO, and CE standards. It ensures safety, efficiency, and

Aluminum Cable Tray

Aluminum Cable Tray systems are lighter than steel cable tray and Certified CSA Cable Tray, UL listed, NEMA and certified. Because of their lighter weight aluminum cable trays are easier to install than

CableTray Book English

Extra wide aluminum rungs are welded to extruded aluminum I-beam side rails. Every second rung is reversed to allow for easy top or bottom mounting of cable ties and clamps. All edges and welds are

Cable Tray: Material Properties

In determining the proper aluminum alloy for structural applications such as a ventilated cable tray system, the design engineer should recognize the

Aluminum Alloy Cable Tray for Corrosion-Resistant

This article explores the design, benefits, installation practices, and real-world applications of aluminum alloy cable trays, providing actionable

Aluminum Cable Tray for Factories, Processing Plants

Snap Track aluminum cable tray for manufacturing, food & beverage, chemical, and pharmaceutical plants. Resists washdown and chemical exposure. 40-60% labor

Cable Tray | EAE Electric | Medium & heavy duty cable

Explore EAE Electric's medium and heavy-duty cable tray systems designed for optimal cable management and durability in industrial and commercial applications.

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653 Series Snake Tray Aluminum Cable Tray | Snake Tray

The 653 Series Aluminum Cable Tray is a ultralight weight, high capacity cable tray system designed to accommodate customer's needs for an extra large cable tray.

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What Are Long Span Cable Trays

What are long span cable trays? Learn how they reduce support points, save costs & suit stadiums, factories. UK expert guide with FAQs.

jordan-zinc-aluminum-magnesium-cable-tray-processing Wholesaler

Aluminum alloys according to DIN specification Virus protection glasses - CE criteria
Other products Magnesium alloy according to ASTM specifications Protective Suit -
Type 5 - Intensive Care - TÜV

KwikRail Aluminum Cable Tray

Cable tray systems are defined to include, but are not limited to straight sections of
of [ladder type] [vented bottom type] [solid bottom type] cable trays, bends, tees,
elbows, drop-outs, supports, and

Aluminum Cable Tray Specifications | PDF | Mechanical

The document provides detailed specifications for aluminum cable trays, including
features, accessories, material compliance, and load ratings. It outlines various

Aluminum Cable Tray

Aluminum Alloy Ladder Cable Tray System Lightweight Long Span Frame for Rooftop
Solar and Telecom Cable Routes Projects \$6.40-6.80 MOQ: 100 meters Dongguan
Kaiyue Electronic

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Aluminum Cable Tray | EAE USA

Aluminum cable tray from 6063-T6 marine-grade alloy. I-beam aluminum cable
ladder, NEMA VE-1 & IEC 61537 certified.

Aluminum Cable Tray | EAE USA

The aluminum cable tray is a lightweight, durable, and cost-effective solution used for
organizing and safely carrying electrical and data cables. With easy installation and
strong corrosion resistance, it is

Contact Us

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