

Classification Chart of Aluminum Alloy Cable Trays



AI Overview

Aluminum alloy cable trays are lightweight, corrosion-resistant, and versatile cable management systems, classified into ladder, tray, groove, and partition types.

Classification of Aluminum Alloy Cable Trays

- Ladder Type: Consists of two longitudinal side rails connected by transverse rungs. Ideal for heavy cable loads and long spans, providing excellent ventilation and heat dissipation .
- Tray Type (Solid Bottom): Features a continuous bottom without ventilation openings, suitable for sensitive cables requiring protection from dust or moisture .
- Groove Type: Shallow, U-shaped trays designed for light cable loads and compact installations .
- Partition Type: Includes internal dividers to separate different cable types, commonly used in data centers or high-density installations .

Key Characteristics

- Material and Strength: Made from aluminum alloys such as 6063 for extrusions and 5052 for fabricated parts, providing high strength-to-weight ratio .
- Lightweight: Approximately 35–50% lighter than galvanized steel, reducing structural support requirements and easing installation .
- Corrosion Resistance: Aluminum naturally forms an oxide layer, making it rust-proof, moisture-resistant, and suitable for outdoor, coastal, or industrial environments .

Article Content

Dec 17, 2025

Cable Tray / Ladder / Aluminum NEMA Load Class: 20C+ CSA

LITY: Classified as an equipment rounding conductor per N.E.C. 392.7 with a maximum 1600 ampere rating. UL Cross Sectional

Jul 20, 2026

CableTray Book English

Solid trough Fabricated from one sheet to form a continuous one-piece tray design Available in aluminum, pregalvanized steel, hot

Oct 22, 2025

B-Line series Cable Tray Design Considerations

B-Line series straight cable tray sections allow for the structural supports to be spaced up to 6m (20 ft) for steel cable ladder and up

Jun 21, 2026

Aluminium Cable Trays | EAE Electric

luminum Cable Trays & Ladders deliver lightweight, durable solutions. Aluminum Cable Tray manages cables, while Aluminum Cable

Sep 01, 2025

B-Line series Cable Tray Design Considerations

Note that wider rung spacings and wider cable tray widths decrease the overall strength of the cable tray. Specifiers should be aware

Mar 06, 2026

B-Line series Cable Tray Design Considerations

Is your cable tray system optimized for safety, dependability, space and cost savings? Cable tray (or cable ladder) systems are a

Jul 22, 2026

Classification Table of Aluminum Alloy Cable Trays

Classification Table of Aluminum Alloy Cable Trays Aluminum Cable Tray systems are lighter than steel cable tray and Certified CSA

Feb 12, 2026

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,

Nov 01, 2025

CABLE TRAY SYSTEMS GUIDE

Cable Tray Systems Guide HUBBELL Hubbell Wiring Device-Kellems and Hubbell Premise Wiring are divisions of Hubbell

Nov 29, 2025

Flextray wire basket section of NEMA cable tray

The Flextray™ system is a flexible, field-adaptable way to manage cables throughout your project. The tray can be cut and bent to

Sep 26, 2025

Types of Cable Trays – Advantages, Applications and Sizes

Explore the types of cable trays, their advantages, applications, and standard sizes. Learn how they improve cable

Jul 10, 2026

Comparing Electrical Cable Tray Materials-Aluminium, Steel, Plastic

Aluminium, steel, or plastic? Compare key features of electrical cable tray materials to find perfect match for your

Jun 19, 2026

Full cable tray systems specification document

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

Jul 25, 2025

GUIDE CABLE TRAYS TECHNICAL

NEMA VE 1-2017 Specifies requirements for metal cable trays and associated fittings designed for use in accordance with the rules

Nov 04, 2025

Aluminum Cable Tray Specifications | PDF | Mechanical Engineering

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

May 13, 2026

Cable Tray Technical Guide A practical guide to product selection and ...

A practical guide to product selection and installation This guide for engineers and installers has been developed by ABB as a

Jun 07, 2026

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,

Feb 22, 2026

Types of Cable Trays & Installation Guide

Additional Information Cable trays are crucial in cable management, providing organized electrical and communication wiring

May 04, 2026

Full cable tray and cable management NEMA catalog

Aluminum cable trays are fabricated from structural grade "copper free" (marine grade) aluminum extrusions. Aluminum's excellent

Jul 17, 2026

KwikRail cable tray specification Document

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

Jun 26, 2026

CableTray Book English

All calculations and data for AH1-8 series are based on cable tray with rungs spaced on 12" centers with tray supported as simple

Sep 07, 2025

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

Jul 09, 2026

222 MANUFACTURING LTD

Aluminum Aluminum cable trays are fabricated from structural grade “copper free” (marine grade) aluminum extrusions. Aluminum's

Feb 21, 2026

Aluminum Cable Tray

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

Jan 12, 2026

Cable Tray Technical Guide A practical guide to product selection and ...

Cable tray is considered to be a system. It must provide continuous support for cables, and the electrical continuity of the cable tray

Oct 14, 2025

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

2.08 General: Except as otherwise indicated, provide metal cable trays, of types, classes and sizes indicated; with splice plates,

Mar 28, 2026

Material Selection Guide for Cable Tray, Metallic Tray Systems

The manufacturer shall provide with each shipment of cable tray, product information that shall include the following: (a) Table or

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://ntmmgroup.co.za>

Email: sales@ntmmgroup.co.za

Phone: +27 82 471 2596

Address: Unit 7, Optic Park, 24 High-Tech Lane, Century City, Cape Town,
7441, South Africa

This document is for informational purposes only. Specifications subject to
change without notice.

