

4C Aluminum Profile Cable Management Frame Specifications



Article Overview

The 4C aluminum profile cable management frame is a modular, T-slot aluminum system designed for robust cable support, typically constructed from 6063 and 5052 aluminum alloys, compatible with cable trays, ladders, and trunking.

Material and Construction

The frame is made from extruded Aluminum Association Alloy 6063 for straight sections and side rails, while fabricated parts use Alloy 5052 for durability and corrosion resistance. The profiles feature rounded edges and smooth surfaces to prevent cable damage and comply with industry standards. Ladder-style frames include transverse rungs welded to side rails, with rung spacing options of 6, 9, or 12 inches, capable of supporting 200 lb concentrated loads with a safety factor of 1.5.

Dimensions and Configuration

- Standard lengths: 10 ft (3 m), 12 ft, 20 ft (6 m), 24 ft
- Widths: 6, 9, 12, 18, 24, 30, 36 inches, or custom per project drawings
- Cable loading depth: 3-6 inches depending on tray type
- Rung spacing in radiused fittings: 9 inches at tray centerline

Modular Design and Compatibility

The 4C aluminum profile system is modular and T-slotted, similar to Bosch or 8020...

Article Content

Oct 04, 2025

Cable tray

ABB designs and manufactures cable tray systems, including perforated tray, cable ladder, channel tray and strut (metal framing),

Sep 02, 2025

Custom Aluminum Cable Ladder Manufacturer | HTS-ALU

The system is composed of longitudinal side rails and transverse rungs, forming a rigid yet lightweight framework. This structure

Aug 14, 2025

CABLE TRAY SYSTEMS GUIDE

Some applications may require the cable tray to support the weight of a single, dead object in addition to the cable loads.

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

Construct units with rounded edges and smooth surfaces; in compliance with applicable standards; and with the following additional

Dec 10, 2025

Cable Management Support Systems

Cable Management Support Systems Cable Support Systems are well designed to provide necessary support for cable trays, cable

May 21, 2026

GUIDE CABLE TRAYS TECHNICAL

The cable management system's electromagnetic performance characterises its ability to protect its cables from external

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Custom Aluminum Cable Ladder What is an Aluminum Cable Ladder An aluminum cable ladder is an open-frame cable management

Jan 25, 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]

Jun 02, 2026

4/C AL 600V PVC THHN PVC Power Cable Type TC-ER

Type TC-ER Power Cable 600Volt Four Conductor Aluminum, Polyvinyl Chloride (PVC) with nylon layer insulation THHN Polyvinyl

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LC/Laochen 4C Profile Ladder-Type Cable Tray, Aluminum Alloy

Buy LC/Laochen 4C Profile Ladder-Type Cable Tray, Aluminum Alloy Cable Management Frame, Cable Managemen online today!

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Cable channels made of aluminium, aluminium cable

There are five cable channel sizes/cross-sections to choose from. The cable channels are quick and easy

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4 Conductor AC90 600V Aluminum

For 3-wire 120/240 and 120/208V residential services or sub-services, the allowable ampacity for sizes #6, #2 and #4/0 AWG

Jan 25, 2026

Four Core Cables AL/PVC/PVC/SWA/ PVC & AL/PVC/SWA/PV C

Four Core Cables AL/PVC/PVC/SWA/ PVC & AL/PVC/SWA/PV C 600/1000 V - FOUR CORE ALUMINIUM CONDUCTOR PVC

Nov 27, 2025

Low Voltage Aluminium Cables

We have been catering to the cable needs and requirements of both large and small customers from wide range of industries. Our

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MiniTec T-Slotted Aluminum Extrusions. Modular Aluminum Profiles

T-slotted modular aluminum profiles similar to bosch profiles, 8020 profiles, item profiles. Distributors include amtec, modular

Apr 05, 2026

Industrial and Construction Cables

The product information has been developed with an easy-to-use format. It features the latest information on industrial cable

Jun 06, 2026

4 Conductor ACWU90 600V Aluminum

Industry compliances: CSA Standard C22.2 No. 51 and No. 174 RoHS Flame test compliances: CSA FT4, Low Acid Gas Other

Mar 23, 2026

4 Conductor Aluminum Teck 90 (XLPE) -40 C

For exposed wiring in dry locations where subjected to corrosive action if suitable for corrosive conditions encountered. For exposed

Jun 24, 2026

Horizontal & Vertical Cable Managers

Organize network infrastructure with CommScope Horizontal and Vertical Cable Management Kits. Sturdy aluminum structures,

Oct 12, 2025

Specifications

Reinforce frames to receive surface mounted door hardware. Machine jambs and prepare for hardware, with concealed

Nov 30, 2025

4 Conductor AC90 600V Aluminum

In these cases, the 5% adjustment per C.E. Code Rule 8-106(1) cannot be applied. Assuming 4th conductor is neutral of a balanced

Sep 27, 2025

LT XLPE Cable Specifications 2C 4mm² & 4C 6mm²

The document provides the technical specifications for 1.1 kV aluminum LT XLPE insulated cables in sizes of 2 core x 4 mm² and 4

Jun 28, 2026

ALUMINIUM CATALOGUE

Door frames are available in two variants - two-track rail and three-track rail. The system is characterised by a closed shape of glazing

Dec 25, 2025

Aluminum Framing Systems Selection Guide: Types, Features

They include accessories that are used to build machine frames, jigs, and many other types of industrial products. Most aluminum

Contact Us

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