

Article Overview

Cable tray elbows are essential fittings that allow directional changes in cable tray systems, available in various materials, angles, and sizes, with prices ranging from \$0.65 to \$3.17 per unit depending on type and bulk quantity.

Specifications

Cable tray elbows are designed to match the main tray in width, depth, and load capacity. Key specifications include:

- o Material: Galvanized steel, stainless steel (304/316), aluminum alloy, and FRP/GRP for corrosion resistance and fire safety .
- o Dimensions: Widths typically range from 6" to 36", rail heights from 4" to 7", and bend radii from 12" to 36" .
- o Angles: Common angles include 45° and 90° elbows, with horizontal and vertical configurations .
- o Load Ratings: Must support the expected cable weight, including uniform, concentrated, and dynamic loads .
- o Standards Compliance: NEMA VE 1, IEC 61537, BS EN 61537, UL Classified for fire resistance, and ASTM A123 for galvanizing .

Types

Cable tray elbows are categorized based on tray type and orientation:

- o Horizontal Elbows: Change direction along the same plane; available for ladder, perforated, and solid bottom trays .
- o Vertical Elbows: Allow elevation changes; inside and outside vertical bends are available .
- o Material-Specific Types:
 - o Galvanized Steel: Durable, corrosion-resistant, suitable for industrial environments .
 - o Stainless Steel (304/316): High corrosion resistance, ideal for harsh or outdoor conditions .
 - o Aluminum: Lightweight, suitable for telecom and data centers .
 - o FRP/GRP: Flame retardant and UV-stable, used in outdoor or chemical environments .

Prices

Cable tray elbow prices vary by material, size, and quantity:

- o Aluminum elbows: \$0.65 per unit in bulk (10,000+ units) for ladder-type trays .
- o Galvanized steel elbows: \$1.08-\$1.50 per unit depending on bulk quantity and supplier .
- o FRP/GRP elbows: \$3.17 per unit for large orders (1,500+ units), .
- o Alibaba bulk pricing: Around \$1.30 per elbow for galvanized or stainless steel . When selecting elbows, consider total installed cost, including shipping, labor, and long-term maintenance, not just unit price .

Summary

Choosing the right cable tray elbow requires matching material, dimensions, load rating, and compliance standards to your project needs. Horizontal and vertical elbows are available in multiple materials, with bulk pricing offering significant cost savings for large installations. Always verify compatibility with the main tray type and environmental requirements to ensure safety and durability.

The document discusses different types of cable containment systems including cable trays, cable ladders, and cable trunking. It

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

Cable Support Systems are well designed to provide necessary support for cable trays, cable ladders and trunkings. Cable supports

ADVANTAGES OF CABLE TRAYS cable tray systems are manufactured in accordance with the precise standards laid

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

Refer to the product sheets for more information on product details and compatibility. You want to see all our products and

100% Canadian Owned, CSA and UL certified. Complete technical support and service for Unitray product lines. Custom sizing and

STANDARD RANGE OF PERFORATED TYPE CABLE TRAY Duty Width in mm Height in mm Thickness in mm Legnth in mm Lip in

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

accordance with the rules

The 90° Horizontal Elbow provides essential support and enables seamless cable management throughout your cable routing

Cable Ladders Straight sections of ladder type cable trays consist of two longitudinal side rails, connected by individual transverse

Fitting and accessories, with the same or different width of the cable run. All fittings are available in sizes and types corresponding to

90° Vertical Elbow Outside & Inside OUTSIDE (90) INSIDE (91) CSA Certified for CSA Systems 90° R

Cable Tray Specifications and Sizes The document describes specifications for different types of cable trays, including outside

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

EzyStrut offers some of the strongest cable trays in their classes, and produces them to a very high structural and visual standard.

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