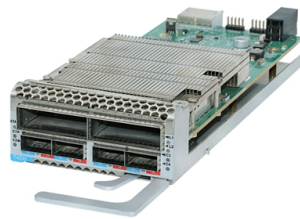


Specifications of 45-degree elbows for cable trays



AI Overview

45-degree elbows in cable trays are designed to provide smooth directional changes while maintaining cable support, available in various materials and compatible with multiple NEMA classes.

General Description A 45-degree elbow is a cable tray fitting that allows the tray to change direction at a 45° angle, either horizontally or vertically. These elbows are used in continuous runs to navigate around obstacles or to change the routing of cables without sharp bends, which helps prevent cable damage and maintain proper bend radius.

Material and Construction **Stainless Steel (SS304):** Commonly used for applications requiring corrosion resistance and frequent washdowns, such as Clean Tray systems. **Composite or Standard Steel:** Some systems offer flat or ladder-style elbows fabricated with angle plates and bolt sets for secure assembly.

Compatibility and Classes 45-degree elbows are designed to match specific cable tray classes according to NEMA standards:

- Class 1:** For NEMA Classes 12B and 12C, featuring 1 1/8" wide side rail flanges and 4-hole splice plates.
- Class 2:** For NEMA Classes 20A, 20B, and 20C, with 2" wide side rail flanges and 4-hole splice plates.
- Class 3:** For NEMA Classes exceeding 20C, with 2 3/8" wide side rail flanges and 8-hole splice plates.

Design Variations **Horizontal Elbows:** Allow left or right directional changes while maintaining a secure cable support platform. **Flat Elbows:** Provide a low-profile bend, often used in composite systems or where vertical space is limited. **Zero Tangent Fittings:** Designed to minimize wasted space in tightly packed areas, improving heat distribution and tray efficiency.

Installation Considerations Ensure the elbow matches the tray width and class for proper alignment and support. Use appropriate splice plates and bolts as specified by the manufacturer. Maintain the recommended bend radius to prevent cable stress. For st...

Article Content

CABLE TRAY SYSTEMS GUIDE

Square Corners: 90 Degree Horizontal Elbows, Horizontal Tees and Horizontal Crosses are available with square corners (0" Radius). The 6" through 18" square-corner fittings are designed to align with

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Cable Tray Fittings and Accessories Guide

Cable tray fittings and accessories 1) Elbow / Bend there are three types of elbows: Horizontal elbow (45) It is a fitting that is used for changing the direction of cable

Cable tray fittings and accessories

Cable tray directional fittings Cable tray fittings are used to change direction, transition, branch, or adapt cable trays within complex wiring routes. They

45° Horizontal Elbow | Cable Tray Systems | PUPCO

The 45° Horizontal Elbow boasts a horizontal bend that grants the flexibility for a 45° cable tray to navigate left or right. Moreover, this design ensures a secure cable

Elbow 45° KKC

GRP-Elbow 45° for cable tray, with unperforated side rails, with moulded connector, various dimensions, glass fiber reinforced polyester, pressed, RAL 7032, pebble grey

Resources for Cable tray and ladder systems

Featured resources Cable tray design considerations guide Our cable tray design considerations guide details key factors to consider when designing cable tray systems for industrial and commercial

45° Vertical Elbow | Cable Tray Systems | PUPCO

The 45° Vertical Elbow is the perfect solution for installations that require the use of large diameter cables in long span situations. This elbow effectively narrows the

I-BEAM Ladder Horizontal Elbows 45°

Choose from the following: Horizontal elbows, Vertical elbows, Tees, Reducers, Cross pieces, Branches. Class 1 Tray Fittings are designed for use with NEMA

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

Cable Tray Technical Guide A practical guide to product selection and installation This guide for engineers and installers has been developed by ABB as a practical reference regarding cable tray

Understanding Solid Bottom Cable Tray System and

Solid bottom cable tray elbows or bends are used to manage horizontal and vertical direction changes within the tray route. They are commonly available in 90

Wire Basket Overhead Cable Tray Routing System Application Guide

System Overview The Wire Basket Overhead Cable Tray Routing System is composed of pathways, splices, mounting brackets, and accessories that allow the system to be configured for a wide range

Horizontal elbow 45° | DKC Europe

Home Products Combitech product line C5 - Cable tray system Accessories Elbows
Horizontal elbow Horizontal elbow 45°

Elbow 45° RBAS

Elbow 45° RBAS Elbow 45° RBAS with unperforated side rails, with integrated splice plate 6 Items Show 25 50 75 100 per page Sort By Position Product Name Price Set Descending Direction RBAS

Cable Tray Design and Components Guide

Tables list standard sizes and specifications for straight and bent cable trays, including width, height, thickness, materials, and finishes. Drawings show

Fiberglass Cable Tray Horizontal Elbows 45°

Compact fiberglass 45 degree horizontal bend fitting for Cope cable tray systems—pre-drilled for easy installation.

CABLE TRAY, CABLE LADDER, CABLE TRUNKING CATALOGUE

Cable Trunking. Straight sections of solid bottom cable trays constructed from single sheet of metal, providing excellent protection from external damage, they are used primarily for intrumental control,

Elbow 45° RBAS

Elbow 45° for cable tray, 100x200 mm, with unperforated side profiles, steel, pre-galvanised according to DIN EN 10346, incl. accessories. EAN 4013339129591. Elbow 45° for cable tray, 100x300 mm, with

CleanTray 45-Degree Elbow | nVent HOFFMAN

Clean Tray 45-Degree Elbows are used for continuous runs with 45-degree turns. The Clean Tray stainless steel system is designed to protect rated cabling in

Swage Ladder Tray Horizontal Elbows 45°

Cope 45 degree swage ladder tray elbow saves space in tight cable tray installations.

Aluminum Channel Horizontal Elbows 45°

45 degree aluminum channel bend fitting for cable trays, supports smooth cable routing and flexible installation.

Cable Tray and Trunking Overview | PDF | Length

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

90 Degree Horizontal Elbows Catalog | PDF

The document provides specifications for metallic cable tray elbows and fittings, including catalog numbers, dimensions, and fitting series. It details the standard cable tray system

A cable tray system is an assembly of metallic cable tray sections and accessories, that forms a rigid structural system to support cables.

45-Deg Elbow Perf Top Cover Slope Inward CleanTray, 4.00x6.00

Clean Tray 45-Degree Elbows are used for continuous runs with 45-degree turns. The Clean Tray stainless steel system is designed to protect rated cabling in applications that require frequent

Contact Us

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

Website: <https://www.tomor.eu>

Email: info@tomor.eu

Phone: +49 69 2381 5497

Address: Am Hauptbahnhof 10, 60329 Frankfurt am Main, Germany

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