Obtuse Angle of Cable Tray

Article Overview

An obtuse angle cable tray is a specialized fitting that allows cable trays to change direction at angles greater than 90 degrees, ensuring smooth routing of cables in complex installations.

Overview

Obtuse angle cable trays are used to redirect cable runs at wide angles, typically between 120? and 150?, without sharp bends that could damage cables or reduce airflow. These fittings are essential in industrial, commercial, and offshore installations where cable routing must navigate structural obstacles or follow architectural layouts .

Types and Materials

Obtuse angle fittings are available in various materials to suit environmental and load requirements:

o Stainless steel: Corrosion-resistant, ideal for harsh or outdoor environments .
o Galvanized steel: Provides durability and moderate corrosion protection .
o Aluminium: Lightweight and corrosion-resistant, suitable for indoor or light-duty applications .
o Fiberglass (FRP/GRP): Non-conductive and corrosion-resistant, often used in chemical or offshore environments . These fittings can be solid, perforated, or ladder-style, depending on the type of cable tray system and the weight of the cables being supported .

Applications

Obtuse angle cable trays are commonly used in:

o Industrial facilities: Factories and plants with complex machinery layouts.
o Commercial buildings: Office or data center cable management.
o Offshore and marine installations: Where corrosion resistance and structural integrity are critical .
o Electrical and instrumentation systems: Ensuring safe and organized routing of power, control, and data cables .

Installation Considerations

o Ensure the angle matches the required routing path to avoid unnecessary stress on cables.
o Use compatible brackets and support elements to maintain stability and comply with load requirements .
o Follow standards such as DIN EN 61537 for cable support systems to ensure safety, ventilation, and accessibility .

o Obtain fittings that match the width and height of the existing cable tray to maintain a continuous support system .

Examples

o ABB AB228SS6C 45? obtuse angle fitting: Designed for standard cable trays, providing a smooth wide-angle transition .
o Obtuse 45-degree angle brackets: Used to join strut channels or cable tray sections at wide angles, typically 41-21 mm in size . Obtuse angle cable trays are a critical component for efficient, safe, and flexible cable management, allowing installations to navigate complex layouts while maintaining compliance with electrical standards and ensuring long-term performance.

Cable tray installed in a hazardous location must contain only those cables that are appropriate for this type of environment as

The document contains drawings for various cable tray angles including 45° and 90° elbows, offsets, tees, and crosses. Each type of

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

Fittings are used to change the size or direction of the channel tray. The most important decision to be made in fitting design

EzyStrut angle fittings are designed to work with 41mm channel/strut section, are made from merchant bar to AS/NZS379.1, and

Grounding connectors may be used with aluminum or galvanized steel cable trays and aluminum or copper conductors. When

Cable tray systems are engineered support structures designed to route, support, and protect insulated electrical

EzyStrut offers a wide range of cable tray covers in durable pre galvanised or hot dip galvanised steel, to fit their comprehensive

This document provides information about cable trays and accessories, including straight cable trays, perforated trays, returned edge

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The document outlines codes and standards that must be followed for design and construction of cable trays and their components.

A cable tray system is used to support insulated electrical cables used for power distribution, control, and communication. Cable

Elbow joint RVS is pushed inside the cable tray and attached with the included screw set. Elbow joint RVS can be used to change a

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