

The function of auxiliary wheels for cable trays

Article Overview

Auxiliary wheels, or cable roller wheels, facilitate smooth cable movement, reduce friction, and protect cables during installation along cable trays.

Purpose and Benefits

Auxiliary wheels are designed to support and guide cables as they are pulled through cable trays, ensuring that cables move efficiently without damage. They are particularly useful in installations involving long cable runs, heavy cables, or complex routing with corners and bends. By reducing friction, these wheels minimize wear on the cable sheath, prevent kinks, and lower the physical effort required for installation, enhancing both safety and efficiency .

Types of Auxiliary Wheels

- o Straight Cable Rollers: Used for linear cable runs, allowing cables to move smoothly along a straight path .
- o Corner Cable Rollers: Feature a V-notch design to guide cables around corners, maintaining stability and preventing the roller from shifting under cable weight .
- o Triple Cable Rollers: Support multiple cables simultaneously, ideal for installations requiring several lines to be laid at once .
- o Heavy-Duty Rollers: Designed for industrial applications, capable of handling very heavy cables with features like slip clutches and variable speed control .
- o Compact Drum Rotators: Suitable for smaller cable drums, facilitating easy positioning in tight spaces .

Applications in Cable Tray Systems

Auxiliary wheels are used in industrial, commercial, and telecommunications installations to guide cables along trays, over edges, and through shafts or tunnels. They protect sensitive cables, such as fiber optics, from mechanical stress and ensure that heavy power cables are installed safely without excessive force . Different materials (plastic, aluminum, steel) and wheel diameters allow customization for cable size and load requirements, optimizing installation for each project .

Key Advantages

- o Cable Protection: Prevents abrasion, kinks, and damage to the cable sheath.
- o Reduced Pulling Force: Makes installation easier and safer for workers.
- o Efficient Routing: Facilitates smooth navigation through corners, bends, and complex layouts.
- o Versatility: Suitable for a wide range of cable types, from delicate data lines to heavy energy cables . In

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summary, auxiliary wheels are essential accessories for cable trays, ensuring safe, efficient, and damage-free cable installation across various industrial and commercial applications.

Cable tray is alternatives to wire ways and electrical conduits, which completely enclose

Excerpt: Cable trays are vital for organizing and protecting cables in industrial and

A cable tray is a structural system used to support and manage electrical cables in various settings, such as industrial, commercial,

When laying cables in industrial and plant engineering as well as tunnel systems, the cable has to be routed safely over corners and

Cable trays are not raceways, but they are treated as a structural component of a facility's electrical system. Cable trays are a part of

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

The vertical straight connector can be used to connect cable trays with the side height 60mm. Mitre joints that rise and fall up to an

Whatever the design, cable trays have their own distinct requirements for effective operation and therefore necessitate

Understanding the different types of cable trays helps in selecting the most suitable option for specific

This article will delve into the various auxiliary materials and accessories essential for effective cable tray installation,

Discover the various types of cable trays, their features and how they enhance wiring organisation. Perfect for

In designing supports for a cable tray system, consideration should be given to the loads associated with future cable additions and

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

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These trays ensure maximum airflow around the cables, promoting effective ventilation and heat dissipation to keep

In the intricate world of electrical and data management, cable trays play a pivotal role in ensuring the safe, organized, and efficient

Accessories. Devices that are used to supplement the function of straight sections and fittings, and include such items

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