ZITHA TECH SPECIALTY CABLES (Pty) Ltd

What is a USP cable tray



Overview

In the of buildings, a cable tray system is used to support insulated used for power distribution, control, and communication. Cable trays are used as an alternative to open wiring or systems, and are commonly used for cable management in commercial and industrial construction. They are especially useful in situations where changes to a wiring system are anticipated.

Key Takeaways

A USP cable tray is a welded aluminum or engineered-to-order cable tray manufactured by United Structural Products (USP) for supporting and organizing electrical and data cables.Overview

A USP cable tray is a structural support system designed to hold, route, and organize electrical and data cables in commercial, industrial, and infrastructure installations. Unlike conduit systems that fully enclose cables, USP trays provide an open, ventilated pathway, allowing for easy inspection, maintenance, and heat dissipation, which is critical for preventing overheating of power and signal cables (Atkore Inc.), .

Manufacturer and Standards

USP, headquartered in Atlanta, Georgia, produces cable trays under the US Tray brand. Their products are engineered-to-order and built according to NEMA standards, ensuring compliance with industry safety and performance requirements. USP cable trays are also certified by Underwriters Laboratories (UL), which guarantees quality and reliability for electrical installations (Atkore Inc.), .

© 2026 ZITHA TECH SPECIALTY CABLES (Pty) Ltd - All rights reserved

Materials and Types

USP cable trays are typically made from welded aluminum, offering durability, corrosion resistance, and lightweight handling. Cable trays can come in various designs, including:

• Ladder trays: Two side rails connected by rungs, ideal for heavy-duty power cables and long industrial runs.

• Perforated trays: Flat base with ventilation holes, suitable for light to medium-duty cabling.

• Wire mesh trays: Flexible and lightweight, often used for data and telecom cables (Expert Electrical), .

Applications

USP cable trays are used in environments such as data centers, manufacturing plants, warehouses, commercial buildings, and infrastructure projects. They support a wide range of cables, including power, armored, fiber optic, and telecommunication wiring. The open design allows for easy upgrades, reconfiguration, and expansion of cable networks, making them a cost-effective and scalable solution for modern electrical systems (Power Solution ME), .

Key Benefits

• Provides organized and secure cable routing.

• Enhances airflow and heat dissipation.

• Reduces installation time and maintenance costs.

• Complies with industry standards for safety and performance.

• Supports customized, engineered solutions for complex installations (Atkore Inc.), .

In summary, a USP cable tray is a high-quality, UL-certified cable management solution designed to provide safe, durable, and flexible support for electrical and data cabling in a variety of industrial and commercial applications.

© 2026 ZITHA TECH SPECIALTY CABLES (Pty) Ltd - All rights reserved

Article Content

Cable tray

In the electrical wiring of buildings, a cable tray system is used to support insulated electrical cables used for power distribution, control, and communication. Cable trays are used as an alternative to open wiring or electrical conduit systems, and are commonly used for cable management in commercial and industrial construction. They are especially useful in situations where changes to a wiring system are anticipated,

Related Video Reference

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

Contact Us

Continue your research online:

Website: https://zithatech.co.za
Technical inquiry: https://zithatech.co.za/contact.html

This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

© 2026 ZITHA TECH SPECIALTY CABLES (Pty) Ltd - All rights reserved