

What is an adjustable cable tray called



Overview

Several types of tray are used in different applications. A solid-bottom tray provides the maximum protection to cables, but requires cutting the tray or using fittings to enter or exit cables. A deep, solid enclosure for cables is called a cable channel or cable trough. A ventilated tray has openings in the bottom of the tray, allowing some air circulation around the cables, water drainage, and allowing some dust to fall through the tray. Small cables may exit the tray through.

Key Takeaways

An adjustable cable tray is called an "adjustable reducer" or "adjustable fitting."

Overview

In cable tray systems, an adjustable cable tray fitting is used to change the size or direction of a cable tray to accommodate varying cable loads, obstacles, or layout changes in a facility . These fittings are essential for flexible and efficient cable management, especially in industrial and commercial installations where cable routing may need to adapt to structural constraints or future expansions .

Types of Adjustable Cable Tray Fittings

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Adjustable Reducer: This fitting allows the cable tray width to be increased or decreased, enabling smooth transitions between different tray sizes while maintaining proper cable support .

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Adjustable Elbow: Used to change the direction of a cable tray in the same plane or vertically, these elbows can be field-fitted to navigate around obstacles or irregular shapes .

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Rigid Expansion Fitting: While not adjustable in the same sense as reducers, these fittings accommodate thermal expansion and contraction in long cable tray runs, ensuring structural integrity .

Applications

- **Changing Tray Widths:** When the number of cables increases or decreases, adjustable reducers help maintain proper spacing and prevent overcrowding.
- **Navigating Obstacles:** Adjustable elbows allow the tray to bend around structural elements without cutting or custom fabrication.
- **Future-Proofing Installations:** Adjustable fittings make it easier to expand or reconfigure cable systems without major reconstruction.

Summary

An adjustable cable tray is not a separate tray type but rather a fitting that provides flexibility in cable tray systems. The most common terms are adjustable reducer for width changes and adjustable elbow for directional changes, both of which are widely used in modern electrical installations to ensure efficient, safe, and adaptable cable management .

Article Content

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