

Components and cable trays



Overview

Choose from our selection of cable trays, including over 850 products in a wide range of styles and sizes. Same and Next Day Delivery.

Key Takeaways

A complete cable tray system includes tray sections, fittings, supports, and accessories to route, protect, and organize cables efficiently. Main Components

1. Tray Sections These are the primary pathways that hold the cables. Common types include:

- Ladder trays: Two side rails connected by rungs, ideal for heavy power cables and long spans, providing excellent ventilation.
- Perforated trays: Solid bottom with holes for moderate airflow and cable support.
- Solid bottom trays: Fully enclosed base for maximum protection against dust, moisture, and debris, often used for sensitive or data cables.
- Wire mesh trays: Grid-like welded steel wires, lightweight and flexible, suitable for low-voltage and data cables.

2. Fittings Fittings allow the tray system to change direction or branch out:

- Horizontal bends: Change direction on the same plane (e.g., 30°, 45°, 90°).
- Vertical bends (risers): Move the tray between elevations.
- Tees and crosses: Create branches to route cables to different areas.

- Reducers: Connect trays of different widths.
- Covers: Protect cables from dust, moisture, and unauthorized access.
- Splice plates: Securely connect straight tray sections.
- Hold-down clamps: Secure covers to the tray base.
- Drop-outs: Allow cables to exit vertically to equipment below . 3. Supports Supports anchor the tray system to the building structure:
- Trapeze hangers: Suspend trays from ceilings.
- Center-span supports: Provide mid-span support for long runs.
- Wall brackets: Attach trays to walls or vertical surfaces . 4. Accessories Additional components enhance functionality and safety:
- Brackets and hangers: For mounting and stability.
- Cable ties or clamps: Secure cables within the tray.
- Expansion joints: Accommodate thermal expansion in long runs . These components together form a complete cable management system, ensuring cables are supported, organized, and protected in industrial, commercial, and data center applications. Proper selection of each component is crucial for safety, load-bearing capacity, and ease of maintenance.

Article Content

Cable Trays | McMaster-Carr

Choose from our selection of cable trays, including over 850 products in a wide range of styles and sizes. Same and Next Day Delivery.

Cable Tray Technical Guide A practical guide to product selection

Cable Tray Technical Guide A practical guide to product selection and installation This guide for engineers and installers has been

Cable Tray Accessories | McMaster-Carr

Choose from our selection of cable tray accessories, including cable and hose trays, steel formable cable and hose trays, and more.

Cablofil Cable Management | Legrand

Explore the one-stop shop for innovative, fast, and dependable cable management systems including wire mesh tray, ladder cable

Cable Tray Systems | Fittings, Fasteners & Accessories

We stock a wide range of fittings and hardware to complement your cable tray system, ensuring seamless installation and long-term

Cable Tray

Tailored Cable Solutions Our range of components lets you configure a cable tray to route cables through unused space, while

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Cablofil® Products Cablofil is the global gold standard for total cable management. Explore the one-stop shop for innovative, fast,

Types of Cable Trays: Ladder, Perforated, Basket, Solid & Channel

Cable trays play a vital role in organizing and supporting electrical cables across industrial and commercial facilities.

Cable Trays and Accesories

Types Overview and Components SFSP cable trays and accessories from SFSP are manufactured from steel sheets in accordance

Types of Cable Trays: Benefits and Uses

Different types of cable trays offer key benefits, optimizing cable management and enhancing efficiency in electrical

Complete cable tray manual for electrical engineers and designers

The final drawings for a cable tray wiring system may be completed and sent out for bid or construction more quickly

Cable Trays | Cable Management Trays

Single Rail Cable Tray: Single rail cable trays consist of a single rail or track with attachments for cable support. Stainless Steel

Everything You Need to Know About Cable Trays | Cable Trays

Discover the different types of cable trays, their many benefits when used in electrical wiring and network cabling,

Exploring Cable Tray Types and Applications

Often unheralded, cable trays play a vital role in tray cable installations throughout industrial, commercial,

Types of Cable Typically Used in Cable Tray

Types of Cable Typically Used in Cable Tray The purpose of a cable tray system is to support, route, and protect cable as part of the

Cable Tray Systems Explained: The Right Solution for Modern Cable ...

Discover cable tray systems, including tray types, sizes, duty ratings and materials, and learn how to choose the right solution for

Cable Trays, Cable Management Trays

Cable trays are a type of cable management system used to support and organize electrical cables and wires in commercial,

What Is A Cable Tray? 5 Types Of Cable Trays

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

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