

Metal cable trays and wire ducts

Article Overview

Cable trays are not made of metal wire ducts; they are distinct support systems that can include wire mesh or solid metal structures.

Cable trays are rigid, open support systems designed to hold and organize electrical cables, allowing for easy installation, inspection, and maintenance. They can be constructed from steel, stainless steel, aluminum, or fiberglass, and some types, like basket or wire mesh trays, use welded wire to form a basket-like structure for cable support and ventilation. This wire mesh design is often referred to as a "wire tray" or "basket tray," but it is not the same as a metal wire duct. Cable ducts, on the other hand, are enclosed channels used to protect and route cables, typically made from PVC, steel, aluminum, or concrete. They provide higher physical protection and environmental shielding, keeping cables hidden and safe from dust, impact, or moisture. Unlike cable trays, ducts are fully enclosed and do not allow free airflow around the cables, which can lead to heat buildup if overfilled. Key differences:

- Design: Cable trays are open (ladder, perforated, or wire mesh), while ducts are enclosed.
- Function: Trays support large numbers of cables and allow ventilation; ducts protect cables from physical and environmental damage.
- Material: Trays can include welded wire mesh, but ducts are solid channels made of metal or plastic.
- Applications: Trays are used in industrial, commercial, and IT environments for easy access and heat dissipation; ducts are used in offices, residential buildings, or areas requiring concealed wiring. In summary, while some cable trays use metal wire in their construction, they are not metal wire ducts. Cable trays are support systems for organizing and ventilating cables, whereas metal wire ducts are enclosed protective channels.



Article Content

Mar 07, 2026

Wire Cable Tray System

The wire cable tray system is the strongest system for guiding and protecting cables, pipes, flexible pipes and hoses. The ducts or

Jul 22, 2026

Recommendations For Selection and Installation of Cableways

Cableways The term cableways refers to conductors and/or cables together with the means of support and protection,

Mar 21, 2026

Plastic Wire Ducts & Cutters | Slotted Cable Ducts With Lids

We carry a selection of Noryl and plastic wire ducts for commercial and industrial use. Shop Cable Ties And More for all your wire

Jan 31, 2026

Electriduct Economical Wire Duct

Noryl Wire Duct Accessories Wire Ducts also known as wire troughs, wire-ways, wire raceways or wire channels are unbending trays

Jan 26, 2026

Cable Tray and Reels | Wire and Cable Management

From heavy power cable pathways on oil drilling platforms to data center cabling, explore the cable tray

Jun 04, 2026

Cable tray

ABB designs and manufactures cable tray systems, including perforated tray, cable ladder, channel tray and strut (metal framing).

Feb 16, 2026

Cable Tray Systems | Cable Management Trays | Metsec

Our Cable Tray Systems and cable management trays offer high quality steel and galvanised steel

Dec 22, 2025

Cable Trays and Accesories

SFSP cable trays and accessories from SFSP are manufactured from steel sheets in accordance with BS

May 17, 2026

Metal Wire Duct

Shop high-quality metal wire duct solutions for secure and efficient electrical wiring. Find durable, reliable,

Jun 14, 2026

Metal cable trunking for every application and every requirement •

The perfectly coordinated range includes well-proven solutions such as the versatile Industrial-Trunking, compact PIK-Trunking and

Dec 08, 2025

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.

Aug 18, 2025

Types of Cable Trays – Purpose, Advantages, Disadvantages

Cable tray is alternatives to wire ways and electrical conduits, which completely enclose cables. Study types of cable

Jun 17, 2026

Cable ducts

Our company specializes in the manufacture of first-class metal cable trunking that meets the highest

Aug 15, 2025

Cable Tray, Cable Bus, Wire Mesh Cable Trays | MP

MP Husky manufacturers Cable Tray Systems, Cable Bus System, Wire Mesh/Wire,Cable Tray, & Cable

Jul 18, 2026

Wire mesh cable trays

Wire mesh cable trays and cable support systems for flexible and effective cable routing.

Jan 18, 2026

Wire Mesh Cable Trays | Welded Steel Cable Trays

Durable welded wire mesh cable trays for industrial, commercial, and AI data center cable management—flexible, scalable routing.

May 02, 2026

Metal cable trunking for every application and every requirement •

PFLITSCH is and remains a trendsetter in modern cable routing with solutions for every application and every requirement. The

Mar 28, 2026

Cable Duct | McMaster-Carr

Choose from our selection of cable duct, including slotted wire duct, flexible slotted wire duct, and more. Same and Next Day Delivery.

Jan 01, 2026

Cable Containment Systems | Trays, Baskets

Discover high-quality cable containment solutions at Direct Channel. Our range includes cable trays,

Jan 16, 2026

Niedax catalog for electrical installation ducts

Today, the standard range comprises 16 different dimensions made of steel, 4 profiles made of aluminum

Nov 08, 2025

How to Choose the Best Cable Management for Your

The best cable management depends on your environment and goals. See how trays,

Apr 11, 2026

Wiring Ducts and Accessories

Wiring ducts and accessories from HelaDuct: optimum protection for cables and fitters. Discover the advantages of HelaDuct wiring

Mar 10, 2026

Wire Duct, Raceway & Tray

Wire Duct, Raceway & Tray Protect your employees and equipment from harm by using wire ducts, raceways and trays for cable

Jun 30, 2026

Cable Tray

Cable Tray Cable trays are mechanical support systems that provide a rigid structural system for electrical cables, raceways, and

Sep 01, 2025

Wire Duct – Cable Organizer

Organize, pull, and separate cables with wire duct, a cable management solution used within control panels, equipment enclosures,

Mar 12, 2026

What is the Difference Between Cable Tray vs Cable

Discover the key differences between cable trays and cable ducts. Learn about their

Jul 17, 2026

Wire mesh cable trays and stainless steel cable trays

Supplier of wire mesh cable trays and wire basket trays in stainless steel for production facilities and the

Dec 16, 2025

CATALOG Wiring ducts, floor boxes and trunking Easily allows for ...

The new wiring ducts with standard easurements of 50 x 50 mm and 100 x 60 mm with circular lateral knockouts, on

Jan 17, 2026

Metal cable ducts and more

Your expert for high-quality metal cable trunking. Our cable trunking offers reliable protection and perfect organization for your cables

Mar 16, 2026

Cable Management Compared: Ties, Trays, and Ducts Explained

Master your workspace with our guide to cable management. We compare the pros and cons of cable ties, trays, and

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://www.iiss.co.za>

Email: sales@iiss.co.za

Phone: +27 63 174 2895

Address: Unit 8, Innovation Park, 15 Rivonia Road, Sandton, Johannesburg,
2196, South Africa

This document is for informational purposes only. Specifications subject to
change without notice.

