

Parameter	
Product Type:	Cable tracking, ladder, perforated and wire mesh cable tray
Material:	GI sheet, SPCC, ZAMC, ZALMA, Aluminum, SS304/316, FRP
Finish:	GI Electro-gal, HDG, Powder coated, Electrolytic plating
Width:	50-1000mm
Height:	25mm, 50mm, 75mm, 100mm, 150mm or as you required
Thickness:	0.8-2.5mm (Diameter-Draw-Down for wire mesh cable tray)
Length:	2m, 2.4m, 2.64m, 2.5m, 3m, 3m, etc
Service:	100% OEM or ODM
Lead Time:	10 days for a 30' container, 14 days for a 40' container
Port of Loading:	Shanghai Port, Ningbo Port ect.

Optical cables typically use metallic or hybrid shielding, such as aluminum foil, braided copper, or combination shields, to protect against electromagnetic interference and mechanical damage.

Types of Shielding for Optical Cables

- 1. Aluminum Foil Shielding** Aluminum foil provides a thin, continuous conductive layer around the optical fibers, offering 100% coverage against high-frequency electromagnetic interference (RFI). It is lightweight and ideal for static installations, such as data centers or structured cabling, where high-frequency noise is a concern. A drain wire is often included to facilitate grounding and improve EMI protection.
- 2. Braided Copper Shielding** Braided shields consist of woven copper strands that provide mechanical strength and protection against low-frequency EMI, such as power-line hum or motor-generated noise. Coverage typically ranges from 85% to 95%, making it effective for industrial environments where cables may be routed near motors or variable frequency drives.
- 3. Combination Shielding (Foil + Braid)** For environments with both high- and low-frequency interference, combination shielding integrates an inner foil layer with an outer braided layer. This approach ensures broadband EMI protection, mechanical durability, and improved signal integrity over long distances. It is commonly used in industrial-grade optical cables, hybrid fiber-electrical cables, and high-speed data transmission applications.
- 4. Spiral or Tinned Copper Shields** For flexible or moving applications, such as robotic arms or cable chains, spiral-wrapped tinned copper shields provide superior flexibility while maintaining consistent EMI protection. They are less rigid than braided shields and reduce the risk of damage from repeated bending.

Additional Considerations

Environmental Protection: Outdoor or industrial optical cables often require additional protection against moisture, UV radiation, and physical damage. This can include specialized jackets, gel-filled connectors, and protective conduits.

Article Content

Different Types of Cable Shielding Explained | Kato

Learn the different types of cable shielding, how each works, and what OEMs need to know to ensure reliable performance and protection in electrical systems.

Understanding Shielded vs Unshielded Cables

Foil shields offer 100% coverage but are mechanically fragile. Braided shields are more durable but cover less surface area. Drain wires are often included to facilitate proper grounding. The

18 Best Audio Cables | Top Picks For All Cable Types

These cables come in various formats, including analog (RCA, XLR, TRS) and digital (optical, coaxial). Factors such as conductor material, shielding,

Types of Cables, Purpose, Advantages, Disadvantages, Applications

Learn about the types of cables, advantages, disadvantages, applications, and purposes of Twisted pair, Coaxial, and Optical fiber cables.

How Do You Effectively Shield a Cable?

A look at different types of shielding used in cables to block noise, crosstalk, and EMI.sponsored byHow do you protect a cable from unwanted signals?Industrial environments are

Mastering Cable Shielding: Types, Techniques, and Best Practices

A1: Cable shielding types include foil for 100 percent high-frequency coverage, braid for low-frequency effectiveness with 70-95 percent optical coverage, and combinations for broadband

The FOA Reference For Fiber Optics

The fiber optic contractor should be able to work with the customer in each installation project through six stages: design, installation, testing,

Shopping

Shopping is a leading price comparison site that allows you shop online for the best deals and lowest prices. You can read unbiased product reviews and

Cable Selection: Shielding

Two of the most common types of shielded cables found in the market today are braided shielded cables and foil shielded cables. Foil shielding incorporates a thin sheet of either copper or

Computer Cables: A Complete Guide | OMO Electronic

How many types of cables are used in computer networking? Communication systems primarily use three types of network cables: twisted pair, coaxial, and fiber optic.

What Is Structured Cabling? Complete Guide for

There are different types of cables used in structured cabling, including twisted-pair copper cables, fiber optic cables, and coaxial cables. Each

Online Bulk Cable Company | CableWholesale

As a premier online bulk cable company, CableWholesale carries a large inventory of computer cables, USB, HDMI, fiber optic, VGA cables, and more. Shop now!

Understanding Cable Shielding: Types, Applications,

Here, we will take an in-depth look at the different types of cable shielding, the best time and place to use cable shielding, and the essential

How Do You Effectively Shield a Cable?

In a shielded cable, an outer shield acts as a barrier that separates the electric field surrounding the central conductor from the external environment. For the barrier to be effective, the

In-Depth Guide to Shielded Cables: From EMC

Best choice: Double-shielded cables or S/FTP types, combining foil and braided shields. They provide both high-frequency and low-frequency noise protection,

EMC and EMI Compliance Guidelines: How to Design Interference

Use twisted pair and shielded cables. Maintain proper spacing between different cable types. f. Isolation Techniques: Evaluate the need for optical or transformer isolation. g. Simulation

The Gear Page

Join a vibrant community of musicians and gear enthusiasts discussing instruments, effects, setups, and more on The Gear Page forum.

Cable Shielding Types Comparison Chart

Having trouble figuring out which type of shielding your cable requires for your application? This Cable Shielding Types Comparison Chart can help you decide which type of shielding best suits the

HDMI Cable Types: The Ultimate Guide

Let's take a look at the various HDMI cable types to see why picking the right HDMI cable for your TV or gaming setup is so important.

Aerospace-Grade Wire and Cable

Glenair High-Availability Wire and Cable Video Overview Short video overview of Glenair signature wire and cable for military / aerospace applications covering hookup wire and cable IAW M22759 and

Cable Shielding Explained | Foil, Braid & Screened Cables | Webro

Not all screened cables are equal. Webro explains the difference between foil and braid screens, EMI and RFI interference, and how to choose the right cable shielding.

Audio Science Review (ASR) Forum

Audio reviews, science and engineering discussions. If you are a member of the audio/video industry and want to post information about your products (announcements, getting

Network Cable Price in Bangladesh

The network cable price depends on cable type, length, shielding, conductor material, connector quality, and brand. If you are searching for internet cable price in BD, Ryans offers Cat-5E, Cat-6, Cat-6A,

OPGW Cables: What Are They and Why Power Grids Need Them

Discover what OPGW cable (Optical Ground Wire) is, its technical structure, key benefits for power grids, installation practices, for transmission lines.

What is cable shielding? Everything you need to know

The best type of shield—foil, braided, or spiral—depends on the specific needs of the application, including the level of electrical noise in the

Composite, optical fiber, power and signal tactical cable

A composite cable includes at least two optical fiber components and at least one additional component. An irradiated crosslinked jacket surrounds the optical fiber component and the

Contact Us

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