

What is the international optical cable code

Article Overview

The international optical cable code is HS Code 8544, which classifies insulated wires, cables, and optical fiber cables for global trade.

Overview

HS Code 8544 is part of the Harmonized System (HS) maintained by the World Customs Organization (WCO) and is used by over 200 countries to standardize the classification of traded goods, including optical fiber cables. This code ensures that customs authorities, importers, exporters, and freight forwarders can identify products consistently, apply tariffs correctly, and collect trade statistics accurately.

Scope of HS Code 8544

HS Code 8544 covers:

- o Insulated electrical wires and cables used in homes, vehicles, and machinery
- o Coaxial cables for transmitting data and signals in networking and TV systems
- o Optical fiber cables, including single-mode and multimode fibers, whether or not assembled with electric conductors or fitted with connectors. The insulation can be made from materials such as plastic, rubber, or enamel, which protects against electric shock, short circuits, and signal interference.

Importance for International Trade

- o Global Standardization: HS Code 8544 provides a uniform classification for optical cables across countries, facilitating international trade.
- o Tariff and Duty Assessment: Customs authorities use this code to determine import/export duties and compliance requirements.
- o Regulatory Compliance: Products classified under HS Code 8544 must meet international standards for performance and safety, including IEC and ISO/IEC fiber optic standards.

Related Standards

While HS Code 8544 identifies the product for trade, technical standards ensure quality and performance:

- o IEC 60793: Defines specifications for single-mode and multimode optical fibers
- o IEC 60794: Covers finished cable assemblies, including indoor and outdoor cables
- o ISO/IEC 11801: Specifies generic cabling for customer premises, including OM3, OM4, and OS2 fiber



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types These standards complement the HS code by ensuring that optical cables meet international performance, durability, and safety requirements.

Key Takeaway

For international shipping, customs, and trade purposes, optical fiber cables are classified under HS Code 8544, while compliance with IEC and ISO/IEC standards ensures technical quality and reliability . This combination allows manufacturers, importers, and exporters to operate efficiently and meet global regulatory requirements.

Learn the complete fiber color code guide. Understand fiber optic cable color coding standards and charts to simplify

ISO/IEC 11801 is the international standard for generic structured cabling systems, covering both optical fiber and

ICC is a structured cabling solutions manufacturer of copper & fiber optic connectivity products for commercial & residential applications.

In the world of network infrastructure, the 4 Core Optical Cable is arguably the most versatile choice. Whether for long

Understand the TIA-598 fiber color code system for jackets, fibers, and connectors. Learn

Fiber Optic Cable Cable Types: (L&R): Zipcord, Distribution, Loose Tube, Breakout Cable provides

G.656The characteristics of a single-mode optical fibre and cable which has the positive value of the chromatic dispersion coefficient

Lower loss: Optical fiber has lower attenuation (loss of signal intensity) than copper conductors, allowing longer cable runs and fewer

Store Store ICS 29 29.060 - Electrical wires and cables

About Color Code Systems Fibers, tubes and ribbons in fiber optic cables are marked with different colors and bar codes to facilitate

In this guide, we will break down the latest EIA/TIA-598-D requirements (the most current revision used

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globally) and

1. Introduction The optical fibres on which optical access and transport networks are structured are standardized at international level.

Conclusion The ANSI/TIA-598-C color code and cable markings system is a standardized method for organizing,

The HS Code 8544 is the global standard for classifying insulated wires, cables, and fibre optics used in electrical and

Master the TIA-598-C fiber optic color code standard. Read our complete guide and use our free interactive calculator to easily

Standards Updates for Optical Fiber: What You Need to Know Industry standards for optical fiber cables, components,

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