

RIVO MULTITRADE OPTICAL SYSTEMS

Tariff Costs for Active Optical Cables Used in Emergency Communication for Electrocution Resistance



Overview

Harmonized Tariff ScheduleThe HTS is based on the international Harmonized System, which is the global system of nomenclature applied to most world trade T.

Key Takeaways

Active Optical Cables (AOCs) used for high-speed or emergency communication are generally classified under HTSUS 8517.62.0050 and are duty-free in the United States.

Classification and Duty Rate

Active Optical Cables (AOCs) are assemblies that include a fiber optic cable with transceivers on each end, converting electrical signals to optical signals and back, supporting high-speed data transmission up to 100 meters or more . These cables are commonly used in telecommunication, data centers, and emergency communication systems due to their high bandwidth and electrical isolation, which enhances electrocution resistance . For U.S. import purposes, AOCs are classified under HTSUS 8517.62.0050, which covers “other apparatus for the transmission or reception of voice, images, or other data, including switching and routing apparatus” . According to the U.S. Customs ruling, the general rate of duty for this classification is Free, meaning no import tariff is applied under normal circumstances .

Alternative Optical Fiber Cable Classifications

Some optical fiber cables, particularly those without active transceivers, may fall under HTSUS 8544, which covers “insulated wire, cable, and other insulated electric conductors, including optical fiber cables” . Duty rates for these cables vary depending on the specific subheading and whether they are assembled with connectors or other electrical components. However, for high-performance AOCs used in emergency communication, HTSUS 8517.62.0050 is the standard classification.

Considerations for Emergency Communication and Safety

AOCs provide electrical isolation because the signal is transmitted optically, reducing the risk of electrocution in emergency or high-voltage environments. This makes them particularly suitable for critical infrastructure, emergency response networks, and high-voltage industrial settings . While the tariff is duty-free, importers should ensure compliance with FCC, OSHA, or other relevant safety standards for emergency communication equipment.

Summary

- HTSUS Code: 8517.62.0050 for AOCs with transceivers
- Duty Rate: Free (no import tariff)
- Use Case: High-speed data transmission, emergency communication, electrocution-resistant applications
- Alternative Classification: HTSUS 8544 for passive optical fiber cables
- Regulatory Note: Ensure compliance with safety and communication standards This classification and duty-free status make Active Optical Cables a cost-effective solution for emergency communication systems requiring high-speed, electrically isolated connections .

Article Content

HTS 8544.70 — Optical fiber cables | Import Tariff & Duty Rate

Find import duty rates for HTS 8544.70: Optical fiber cables. View rates by country of origin, Chapter 99 surcharges, and related

Active Optical Cable Market Size & Trends 2025-2035

Shifts in the Active Optical Cable Market from 2020 to 2024 and Future Trends 2025 to 2035. From 2020 to 2024, the

Comprehensive Guide to Fiber Optic Cable Pricing: Cost Analysis and ...

Explore detailed insights into fiber optic cable pricing, including cost factors, quality considerations, and long-term value benefits for

HS Code 8544

HS Code 8544 covers insulated wires, cables, and optical fibre cables used worldwide. Learn how it defines tariffs,

US Tariffs Impact on Fiber Optic Components Market

Explore the impact of US tariffs on the fiber optic components market, highlighting increased production costs, supply chain

8544.70.00

2005 NY R01912 - The tariff classification of a communication cable from an unspecified country 2005 NY R02953 - The tariff

CROSS Ruling

The applicable subheading for the Active Optical Cable assembly (AOC) will be 8517.62.0050, Harmonized Tariff Schedule of the

Fiber Optic Cable Pricing Guide: Factors That Affect Cost ...

This guide outlines the major factors that influence fiber optic cable costs and provides practical tips for estimating

How to Handle Optical Cable Export Agency? These 9 Key Questions

This article addresses core issues related to tariff policies, international certification, logistics solutions, and payment

Insulated (including enamelled or anodised) wire, cable (includin

Insulated (including enamelled or anodised) wire, cable (including coaxial cable) and other insulated electric conductors, whether or

Trump Tariffs Impact on Optical Transceiver Market

With the growth of 5G, hyperscale data centers, and artificial intelligence (AI) workloads, demand for high-speed

Harmonized Tariff Schedule

1. For statistical reporting purposes under subheading 9001.10, the unit of quantity " fiber m ", as it pertains to optical fiber bundles

Rugged Active Optical Cables: A Viable Alternative to Copper and

Typically, in harsh environments such as industrial production facilities, refineries, process manufacturing plants,

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