

Fiber Optic Communication Classification Number



Article Overview

Fiber optic communication services fall under Nice Classification Class 38, while fiber optic communication devices are classified under HTSUS 8517.62.0090.

Nice Classification for Services

Fiber optic communication services, which include transmitting information via optical fibers, are categorized under Class 38 of the Nice Classification system. This class covers services that enable at least one party to communicate with another, including data transmission, teleconferencing, and videoconferencing . Companies providing internet, telephone, or cable television services using fiber optics would typically register under this class.

Harmonized Tariff Schedule for Devices

For physical devices used in fiber optic communication, such as optical transceivers, the Harmonized Tariff Schedule of the United States (HTSUS) provides the relevant classification. Devices that receive, convert, and transmit data via fiber optic cables are classified under subheading 8517.62.0090. This subheading specifically covers “machines for the reception, conversion, and transmission or regeneration of voice, images, or other data, including switching and routing apparatus” . It applies to equipment like single-mode transceivers, SFP modules, and other optical networking hardware....

Article Content

Jul 05, 2026

Fiber Optics Classification

Plastic optical fiber is a new kind of fiber used in communication, is still in the development phase of the trial. Plastic optical fiber has

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Fiber Optic Basics

Fiber Optic Basics Optical fibers are circular dielectric wave-guides that can transport optical energy and information. They have a

Jan 23, 2026

FOA Tech Topics

(Individual fiber cable runs will be specified by number of fibers and cable type (riser, plenum, indoor-outdoor, etc.) required by the

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Definition, Types and Applications of Optical Fiber

We are aware that optical fiber has completely revolutionised the communications industry. A core, cladding, and

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Fiber Optics and Types

Fibre optics, with its high bandwidth, low electromagnetic interference, and resilience, is critical for modern

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Optical fiber classification and its characteristics

Optical fiber is an important part of modern communication systems. According to different classification standards,

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OPTICAL FIBER

A lot better known and more widely used than plastic fibre optics, these glass fibres are special in that they can carry several light

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Fiber Optics and Types

There are different types of fiber optics based on several categories as mentioned below: 1. Based on the Number of

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Optical fiber

An optical fiber, or optical fibre, is a flexible glass or plastic fiber that can transmit light from one end to the other. Such fibers are

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Optical fiber

Multi-mode fibers generally have a wider core diameter and are used for short-distance communication links and for applications

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ISO/IEC 11801

It covers both balanced copper cabling and optical fibre cabling. The standard was designed for use within commercial premises that

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Optical fibre standards and norms

Such a large number of documents is a result of the rapid development of fiber-optic communication due to the high demand for fast,

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Optical Fiber Types Explained

Discover the different types of optical fibers used in communication systems and their applications in this detailed guide.

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The Ultimate Guide to Fiber Optic Cables – Types, Standards, and ...

Discover how to choose the right fiber optic cables for your network. Learn about fiber types, cable constructions,

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Fiber Color Code: Complete Guide to Mastering Identification

Understand fiber color codes and their meanings in this comprehensive guide. Learn more about outer fiber jacket

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HS Code Fiber Optic Cable Classification: A Comprehensive Guide

HS Code Classification for Fiber Optics Products: A Comprehensive Guide Fiber optics technology has revolutionized

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Classification of Optical Fiber (The Complete Guide 2020)

Conventional, customized, and improved products coexist, and optical fiber communication technology continues to progress rapidly,

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Fiber-optic communication

Modern fiber-optic communication systems generally include optical transmitters that convert electrical signals into optical signals,

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Multi-mode optical fiber

Multi-mode optical fiber is a type of optical fiber mostly used for communication over short distances, such as within a building or on a

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Modes of Propagation in Optical Fiber

In the realms of connectivity and telecommunications, Fiber Optic Network basically specifies and analyses the modes

May 24, 2026

Optical Fiber Types

Nomenclature For Optical Fibers And Cross Reference To International Standards Singlemode Fiber Types There are several

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OPTICAL FIBER CLASSIFICATIONS UNDER ISO 11801 & EN

applications for communication networks using this type of fibre optics. However, with transmission loss of 10dB/km at 850nm, this

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Fiber Optic Transceiver Classification | by Aria Zhu | Medium

With the technological advancements and improvements made in fiber optic communication, service providers

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Engineering Made Easy: Classification of Optical Fibers

Explore classification of Optical Fibers based on Mode of Propagation, Refractive Index Profile, Material, Application,

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Fiber-optic cable

Different types of cable are used for fiber-optic communication in different applications, for example long

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Optical Fiber Classification | Cone of Acceptance

The number of modes supported by a single fiber can be as low as 1 or as high as 100,000; that is, a fiber can provide a path for one

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Engineering Made Easy: Classification of Optical Fibers

Classification of Optical Fibers: A Comprehensive Guide Optical fibers are the backbone of modern communication.

Aug 01, 2025

Specifications For Fiber Optic Networks

Specifications For Legacy Fiber Optic Networks A listing of many fiber optic LANs and links available in the last 30 years, with basic

Jul 29, 2025

OPTICAL FIBER COMMUNICATION

Fibre Optics Material Choice? H.H.Hopkins and N.S.Kapnay in 1950's used cladding fiber: Good image properties demonstrated for

Jun 18, 2026

"V" NUMBER & TYPES OF OPTICAL FIBERS

This video explains the concept of an optical cable's "V" number and the types of fiber

Jan 26, 2026

Laser Classifications and Safety | ICT Solutions & Education

Safety should always be a major element of any organization's culture. In this month's column, I'll address laser safety applicable to

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Classification of Optical Fibers | PDF | Optical Fiber | Optics

Optical fibers are classified based on material composition, number of propagation modes, and refractive index profile. There are two

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Handbook Optical fibres, cables and systems

A PON can be deployed in a FTTH (fibre to the home) architecture or in a FTTB (fibre to the building), a FTTC (fibre to the curb) or a

Aug 10, 2025

Classification of optical fibers and Modes of Optical Fiber

The document presents a classification of optical fibers based on materials, modes of propagation, and refractive index profiles. It

Oct 14, 2025

Major Recommendations: Optical

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

Apr 08, 2026

Handbook Optical fibres, cables and systems

The simultaneous availability of compact sources and of low-loss optical fibres led to a worldwide effort for developing optical fibre

Oct 08, 2025

Types of Fiber Optic Cables: Complete Classification

In today's digital era, a reliable fiber optic cable network forms the backbone of

May 10, 2026

Fiber-optic communication

Two main types of optical fiber used in optical communications include multi-mode optical fibers and single-mode optical fibers. A

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