

Detailed Classification Chart of Fiber Optic Connectors

Ordering information

NO.	1	2	3	4	5	6
Model	SP12H1	SP12H2	SP12H4	SP12H5	SP12H2	SP12H4
Product name	Patch Panel	Patch Panel	Patch Panel	Patch Panel	Patch Panel	Patch Panel
Illustration						
HU	1	2	4	1	2	4
Maximum number of cores	144	288	576	144	288	576
Product size (including modules and adapters)	482.0*100*144 mm	482.0*100*144 mm	482.0*100*177 mm	482.0*100*144 mm	482.0*100*177 mm	482.0*100*177 mm
Standard color code	RAL9005	RAL9005	RAL9005	RAL9005	RAL9005	RAL9005
Inventory	4	4	4	4	4	4

Overview

Fiber Connector Types: A Comprehensive Guide 2025Among these components, fiber connector types are essential to network performance, reliability, and scala.

Key Takeaways

Fiber optic connectors are classified by mechanical format, ferrule size, coupling mechanism, polish type, and typical applications, providing a structured guide for network design and deployment.

Fiber Optic Connector Classification

Connector Type

Ferrule SizeCoupling MechanismFiber TypePolish TypeTypical ApplicationsSC (Subscriber Connector)2. 5 mmPush-pullSingle-mode / MultimodeUPC / APCFTTH, data centers, PON networksLC (Lucent Connector)1. 25 mmLatch (RJ45-style)Single-mode / MultimodeUPC / APCHigh-density data centers, duplex/simplex connectionsST (Straight Tip)2. 5 mmBayonet twist-lockMultimode / Single-modeUPCLegacy networks, industrial, military-grade systemsFC (Ferrule Connector)2. 5 mmThreaded screwSingle-modeUPC / APCHigh-vibration environments, precision instruments, OTDRsMPO / MTP (Multi-Fiber Push-On / Multi-Fiber Termination Push-On)2. 0 mm (multi-fiber)Push-pullSingle-mode / MultimodeUPC / APCHigh-density backbone, data center trunks, parallel opticsE20001.

25 mm Push-pull with shutter Single-mode APC Telecom, high-safety environments MU (Miniature Unit) 1. 25 mm Push-pull Single-mode UPC Backplane applications, duplex connections CS / SN / MDC (VSFF Connectors) 1. 25 mm or smaller Push-pull / duplex Single-mode / Multimode UPC High-density transceivers (QSFP-DD, OSFP, SFP-DD), data centers Key Classification Notes Ferrule Size: Determines alignment precision; smaller ferrules (1.

25 mm) allow higher port density (LC, MU, CS) while larger ferrules (2. 5 mm) are more robust (SC, ST, FC). Coupling Mechanism: Push-pull (SC, LC, MPO) allows quick connections; bayonet (ST) and threaded (FC) provide secure mechanical stability in harsh environments.

Polish Type: UPC (Ultra Physical Contact) offers low insertion loss; APC (Angled Physical Contact) reduces back reflection, critical for RF video and GPON networks. Fiber Type Compatibility: Single-mode connectors are used for long-distance, high-bandwidth applications; multimode connectors are common in short-distance, high-density networks. Specialized Connectors: VSFF connectors (CS, SN, MDC) are designed for extreme port density in modern transceivers, while E2000 and MU connectors provide safety and backplane integration.

This classification chart provides a comprehensive reference for selecting the appropriate fiber optic connector based on network requirements, density, and environmental conditions. It is suitable for engineers, designers, and technicians working on optical cable assemblies, patch panels, and high-performance data center deployments.

Article Content

Fiber Connector Types: A Comprehensive Guide 2025

Among these components, fiber connector types are essential to network performance, reliability, and scalability. This guide will walk you through

Fiber Optic Connector Types Chart for Cable Assembly Buyers

Compare LC, SC, ST, FC, MPO/MTP, and ruggedized fiber optic connector types for custom cable assemblies, RFQs, polarity control, and test evidence.

Fiber Optic Connector Types Fully Explained | FiberMania OEM

Explore detailed fiber optic connector types. Learn their features, appearances, capabilities, with images to help you understand each one.

Fiber Connector Types: A Complete Guide (2024)

A fiber connector is a precise coupling device to join fiber cables quickly. This guide introduces LC, SC, FC, ST, MPO, CS and many others.

Fiber Optic Connector Types

A number of fiber connector types have been evolved and withstood the test of time to become industry standards. Then how many fiber connector types do you know or use? What are the differences

Fiber Optic Connectors: Detailed Guide to Types and Uses

In this guide, you'll explore various types of fiber optic cable connectors, each with unique features and best uses. Knowing what each connector does is essential, but it's also important to match them with

Fiber Optic Connector Types

This article includes the latest fiber optic connector types chart, covering important parameters and characteristics related to them.

Optical Fiber Termination Types Chart: SC, LC, FC, ST Comparison

Compare optical fiber termination types, including SC, LC, FC, and ST. View our chart and learn how to choose the right connector for your network.

Fiber Optic Connector Types: A Beginners Guide

Fiber optic connectors can be categorized according to different standards such as utilization, fiber count, fiber mode, and transmission method. They are also divided into single-mode

Classification of fiber optic connectors

The MC optical fiber active connector has a high density, which can be up to twice that of the LC connector in the same space, making it the smallest

Fiber Connector Types Guide: Comparison & Selection

Guide comparing fiber connector types, their features, applications and selection tips for reliable, high-performance fiber optic networks.

Fiber Optic Connector Chart

Fiber optic connectors transmit pulses of light instead of electrical signals. Instead of allowing pins to make metal-to-metal contact, connectors must align microscopic glass fibers perfectly. There are

Fiber Connector Types: A Complete Guide (2024)

What is a Fiber Connector? The fiber connector is called a fiber optic or optical fiber connector. It is a precise coupling device that joins fiber optic

Fiber Optic Connector Reference Guide

The document is an optical fiber connector reference sheet that provides pictures and notes on several common fiber connection types including LC, ST/BFOC, FC, SC, MT-RJ, MIC, and SMA 906. It lists

Fiber Optic Cable Types – Multimode and Single Mode

Application Fiber Optic connectors and cables are present in nearly every communications project that we might sell into, be it a DAS installation or a Base Station with wireless backhaul, you can be

Optical fiber connector

An optical fiber connector is a device used to link optical fibers, facilitating the efficient transmission of light signals. An optical fiber connector enables quicker connection and disconnection than splicing.

Classification of Optical Fiber (The Complete Guide 2020)

For example: the connection of the optical fiber requires flanges, fast connectors, and the fusion of optical fibers requires the use of fusion splicers, protective sleeve, and fiber connections. The joint

Related Video Reference

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

Contact Us

Continue your research online:

Website: <https://ensaa.es>

Technical inquiry: <https://ensaa.es/contact.html>

This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

