

Fiber Optic Cable Connector Size Table



AI Overview

Fiber optic connectors vary in size and ferrule diameter, with LC connectors at 1.25mm, SC and FC at 2.5mm, and MTP/MPO supporting multi-fiber configurations for high-density applications.

Common Connector Types and Sizes

LC (Lucent Connector): Features a 1.25mm ferrule, making it half the size of SC connectors. Its compact design allows high-density port arrangements and is ideal for modern data centers and high-speed networks.

SC (Subscriber Connector): Uses a 2.5mm ferrule and a push-pull locking mechanism. SC connectors are widely used in general-purpose networking and are compatible with both single-mode and multimode fibers.

FC (Ferrule Connector): Also has a 2.5mm ferrule but features a threaded design for secure connections, suitable for high-vibration or precision environments.

ST (Straight Tip): Employs a 2.5mm ferrule with a bayonet-style twist-lock, commonly used in legacy multimode networks.

MTP/MPO (Multi-Fiber Push On/Pull Off): Designed for multi-fiber applications, supporting 2, 4, 8, 12, 24, or up to 72 fibers per connector. These connectors are ideal for high-density racks and backbone cabling.

Structural Components

All fiber optic connectors share key components that influence size and performance:

Ferrule: A cylindrical component that holds the fiber in precise alignment. Materials include ceramic, stainless steel, plastic, or tungsten carbide. Ferrule diameter is critical for connector type and optical performance.

Connector Body (Housing): Protects the ferrule and fiber, made from metal or plastic, and includes mechanisms for latching, push-pull, or threaded locking.

Coupling Device/Adapter: Aligns and joins connectors, ensuring minimal signal loss and precise fiber alignment.

Key Considerations

Single-mode vs Multimode: Single-mode connectors typically have smaller cores and are used for long-distance, high-speed transmission, while multimode connectors are used for shorter distances.

High-Density Applications: LC and MTP/MPO connectors are preferred due to smaller ferr...

Article Content

Fiber Optic Connector Types Chart

The fiber optic connector types chart offers details on fiber patch cable types. Fiber optic patch cables provide transfer speeds in high bandwidth applications using a light signal to transmit with no outside

Types of Fiber Optic Connectors: LC, SC, ST, FC Explained

Learn about the main types of fiber optic connectors — LC, SC, ST, and FC — their specs, applications, and how to choose the right fiber connector type for your network.

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 Selection Guide

It's important to note that due to differences in core size, OM1 fibers cannot be connected to OM2, OM3, or OM4 fibers. Check the optical specifications for each product for more details.

Optical fiber connector

Field-mountable optical fiber connectors are used to join optical fiber jumper cables that contain one single-mode fiber. Field-mountable optical fiber connectors are

Fiber Optic Connector Guide | Fiber Optic Connector

Fiber optic connectors are engineered to provide perfect alignment of the microscopic glass fibers used in fiber cables to transmit data. These sort of

Corning | Materials Science Technology and Innovation

Amazon announced a multibillion-dollar agreement with Corning Incorporated, a leading manufacturer of advanced glass and fiber optic technology, to supply the

DTS0079 Standard Table

The following pages list the standard fibers, cables, connectors, lenses, and laser head adaptors available from OZ Optics. Accompanying each table are technical notes to help you make the most

100 Gigabit Ethernet

The 100 m laser-optimized multi-mode fiber (OM3) objective was met by parallel ribbon cable with 850 nm wavelength 10GBASE-SR like optics (40GBASE-SR4 and 100GBASE-SR10). The backplane

Fiber Optic Connector Types: LC, SC, ST Comparison –

Compare LC, SC, and ST fiber connectors by size, latching, and use case. Find the best fiber connectors for data centers, telecom, or legacy networks.

Fiber Connector Types: A Comprehensive Guide 2025

Discover the common fiber connector types. Learn the differences, uses, and best practices for SC, LC, ST, FC, MPO/MTP connectors.

Fibre Optic Cable & Connector Guide

Choices must be made in selecting fibre optic cables and connectors for high-reliability applications. This white paper provides the knowledge for how to make appropriate selections of fibre optic cable and

Fiber Optic Cable Buying Guide | Eaton

Fiber Optic Cable Buying Guide Choosing single-mode or multimode fiber for high-performance data networking and telecommunications Fast data transmission,

Fiber Optic Cable Size Chart: Complete Guide

Fiber optic cable size chart with complete guide to core, cladding, and jacket dimensions, types, and specifications for networking and installation use.

Fiber Optic Connector Types Explained

Make sure you're choosing the correct fiber optic connector for peak performance. Learn more about fiber connector types in our guide.

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 Connector Types: A Comprehensive Guide 2025

A fiber optic connector is a mechanical device used to align and join optical fibers, enabling light to pass through with minimal loss. Unlike fiber

Fiber Connector Types: A Complete Guide (2024)

SC Connector The SC (Standard Connector, Subscriber Connector) is a fiber optic connector released by NTT in the mid-1980s. It is a snap-on

LC vs SC vs FC vs ST: A Complete Fiber Optic Connector Guide

Compare LC, SC, FC & ST fiber-optic connectors — size, coupling, and ideal use cases — to help you choose the best fit for your network setup.

Fiber Optic Connector Types: A Beginners Guide

The fiber connector types, sometimes referred to as terminations, link fiber optic cables together through terminals, switches, adapters, and patch

Fiber Optic Connectors Information

The ferrule end is polished after insertion of the embedded fiber to provide the smooth interface required for coupling. Parts of the fiber optic connectors include

Fiber Optic Connectors Figure 1

Fiber-to-fiber interconnection can consist of a splice, a permanent connection, or a connector, which differs from the splice in its ability to be disconnected and reconnected. Fiber optic connector types

Fibre Optic Cable & Connector Guide

This white paper is designed to help you select the right kind of fibre optic cable. It should also help you in understanding the various fibre optic connectors in the market and get you up and running in no

FibreFab-Fibre-Optic-Cable-Catalogue

The Optronics fibre optic cable range includes simplex, duplex and flat ribbon patchcords, tight buffered, single loose tube and multi-loose tube distribution cables for internal and external applications as

The Ultimate Fiber Optic Cable Size Reference Chart

Match fiber size with connector type, splicing tools, and application environment. Use visual and tabular charts to quickly compare fiber specs and

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