

What kind of fiber optic cable does the optical connector use



Article Overview

Optical connectors are used with both single-mode and multimode fiber optic cables, with connector type and ferrule size determining compatibility.

Types of Fiber Optic Cables

Fiber optic cables are primarily categorized into single-mode and multimode types. Single-mode fibers (OS1/OS2) have a narrow core, typically around 8–10 μm , allowing light to travel long distances with minimal dispersion, making them ideal for telecommunications and long-haul networks. Multimode fibers (OM3, OM4, OM5) have a larger core, usually 50 μm , supporting multiple light paths and are commonly used in data centers and short-distance applications .

Connector Compatibility

Optical connectors are designed to terminate fiber optic cables and ensure precise alignment for efficient light transmission. Common connector types include:

- LC (Lucent Connector): Uses a 1.25 mm ferrule, suitable for single-mode and multimode fibers, often used in high-density patch panels and SFP/SFP+ transceivers .
- SC (Subscriber Connector): Features a 2.5 mm ferrule, compatible with both single-mode and multimode fibers, widely used in enterprise networks, FTTH, and CATV .
- ST (Straight Tip): Uses a bayonet-style coupling, compatible with multimode and s...

Article Content

Sep 02, 2025

How does fiber optics work?

An easy-to-understand introduction to fiber optics (fibre optics), the different kinds of fiber

Oct 12, 2025

Comprehensive Guide to Fiber Connector Types: LC, SC, ST, FC,

Discover the comprehensive guide on fiber connector types including LC, SC, ST, FC, MTP/MPO, and more. Learn

Jan 14, 2026

Anatomy of a Cable – Optical Fiber

While fiber optic cable itself is cheaper than an equivalent length of copper cable, fiber optic cable connectors and the

Oct 18, 2025

Fiber Connector Types

However, the widely used types are about a dozen of fiber optic connectors, which can be

Apr 25, 2026

Understanding Fiber Optic Cables and Connectors

This whitepaper takes a deeper look into the various fiber optic cable and connector types used in modern networks, their

Jul 16, 2026

The Ultimate Guide to Fiber Optic Cable: Understanding

What is Fiber Optic Cable, and How Does it Work? Introduction to Fiber Optic Cable A fiber

Mar 15, 2026

Fiber Optic Connectors Explained: Design, Types & Applications

Fiber optic cables, used to transmit data using light over large distances, have been traditionally known in the

Feb 03, 2026

Fiber Optic Cables | Corning

With 2 billion kilometers of fiber optic cables installed around the globe, Corning continues to lead the industry in product quality and

Nov 25, 2025

Types of Fiber Connectors | LC, ST, SC | ShowMeCables

Find out the difference among fiber optic connector types LC, ST, SC including which is push-pull, which uses a

Sep 02, 2025

A Breakdown of Fiber Optic Patch Connectors and Their Applications

During the installation at the point where the fiber cable has to be plugged and/or unplugged you need to switch up

Jan 07, 2026

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

Dec 06, 2025

Different Types of Optical Connectors | Inneos

Optical connectors are the physical interface that links an optical device to a fiber optic cable. Fiber optics are used in

Jan 27, 2026

Fiber Optics and Types

Fiber optic cables are used for long-distance and high-performance data networking. They are capable of transmitting

Jan 26, 2026

An Ultimate Guide for Selection of Fiber Optic Cables and Connectors

Since cables and connectors are essential elements of a fiber-optic network, it is important to select the right types of cables and

Feb 26, 2026

The FOA Reference For Fiber Optics

Topic: Fiber Optic Cable Table of Contents: The FOA Reference Guide To Fiber Optics
Fiber Optic Cable

Mar 16, 2026

Fiber Optic Cable Types Explained: Choosing the Right Fiber Cable

With so many types available, choosing the right one for your application can feel overwhelming. This guide breaks

Jul 21, 2026

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

Jun 30, 2026

Fiber Optic Patch Cables: FC, SC, ST & LC Connector Guide 2026

Not sure which fiber optic patch cable to buy? This practical guide breaks down FC, SC, ST, and LC connectors—with

Jun 14, 2026

Understanding Fiber Optic Cable Connectors: Types, Features

Discover the essential fiber optic cable connectors for efficient data transfer. Contact Bulgin for high-quality connectors and custom

Apr 20, 2026

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

Jan 27, 2026

Fiber Optic Connector Types: A Beginners Guide

In many procurement specifications, "OFC connector type" is shorthand for the required

Mar 06, 2026

Fiber optics | Definition, Inventors, & Facts | Britannica

Fiber optics, the science of transmitting data, voice, and images by the passage of light through thin, transparent fibers.

May 21, 2026

Fiber Optic Cable Types: A Complete Guide

Fiber optic cables are, like their name suggests, a cable that uses light, rather than electricity

Nov 24, 2025

Fiber Optic Cable Types | Omnitron Systems Guide

Fiber optic technology has transformed the way we transmit data, enabling faster, more reliable

Dec 09, 2025

Fiber Optic Connectors Types & Fiber Cable Connector Guide for

Discover all major fiber optic connector types, including SC, LC, FC, ST, MPO, and hardened connectors. Learn

Aug 11, 2025

Fiber Optic Cable Buying Guide

Fiber Optic Cable Buying Guide Understand how to choose fiber optic cable by comparing single-mode vs.

May 05, 2026

Fiber-optic cable

A fiber-optic cable, also known as an optical-fiber cable, is an assembly similar to an electrical cable but containing one or more

Nov 24, 2025

Fiber Optic Cable Types – Multimode and Single Mode

Fiber Optic Cable Types – Multimode and Single Mode Application Fiber Optic connectors

May 24, 2026

7 Types of Fiber Optic Connectors in 2025 & Which Is Best?

For top-quality fiber optic cables and connectors, trust Delco Cables —where innovation meets excellence. FAQs

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://www.chromadecksigns-eastrand.co.za>

Email: sales@chromadecksigns-eastrand.co.za

Phone: +32 2 318 5792

Address: Avenue Louise 500, 1050 Brussels, Belgium

This document is for informational purposes only. Specifications subject to change without notice.

