

What are the different types of fiber optic cable connectors and their prices



Overview

Types Of Fiber Optic Connectors: LC, SC, ST, FC, MPO, MTP This ultimate guide will answer exactly how to identify each connector type visually, analyze their.

Key Takeaways

Fiber optic connectors come in several types—SC, LC, ST, FC, MPO/MTP—each suited for specific applications, with prices ranging from \$1 to \$50 per connector depending on type, polish, and quality.

1. SC (Subscriber Connector)

- Square-shaped, push-pull coupling.
- Widely used in FTTH, data centers, and GPON networks.
- Available in SC/UPC and SC/APC polish types for low return loss.
- Larger ferrule (2.5mm) makes it less suitable for high-density applications.
- Price: Typically \$1-\$5 per connector for standard SC connectors.

2. LC (Lucent Connector)

- Miniaturized version of SC with a 1.25mm ferrule.
- Latch mechanism similar to RJ45, ideal for high-density patch panels.

- Common in data centers and telecom networks.
 - Price: Around \$2-\$6 per connector, higher for APC or premium ceramic ferrules . 3. ST (Straight Tip Connector)
 - Round, bayonet-style twist-on connector.
 - Often used in legacy networks and multimode fiber applications.
 - Price: Approximately \$1-\$4 per connector . 4. FC (Ferrule Connector)
 - Screw-on type, providing secure connections for high-vibration environments.
 - Common in test equipment and single-mode fiber networks.
 - Price: Around \$3-\$10 per connector . 5. MPO/MTP (Multi-Fiber Push-On / Multi-Fiber Termination Push-On)
 - High-density connectors capable of connecting multiple fibers (up to 24) simultaneously.
 - Used in data centers and high-bandwidth applications.
 - Price: Typically \$20-\$50 per connector, depending on fiber count and quality .
- Connector Polish Types
- UPC (Ultra Physical Contact): Standard polish, low insertion loss.
 - APC (Angled Physical Contact): Angled ferrule for very low return loss, ideal for RF video and GPON networks.
 - APC connectors are generally slightly more expensive than UPC due to precision polishing .

Factors Affecting Price

- Single-mode vs multimode: Single-mode connectors often cost more due to tighter tolerances.
- Material quality: Ceramic ferrules are more expensive than metal or plastic.
- Field-installable vs pre-terminated: Pre-terminated connectors are convenient but cost more.
- High-density or ruggedized versions: MPO/MTP or MIL-SPEC connectors for harsh environments are priced higher .

Summary

Choosing the right fiber optic connector depends on network type, density, and performance requirements. Standard SC and LC connectors are cost-effective for most applications, while MPO/MTP connectors are preferred for high-bandwidth, high-density environments. Prices generally range from \$1 for basic connectors to \$50 for multi-fiber or specialized connectors, with polish type and material quality influencing the final cost .

Article Content

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Discover the common fiber connector types. Learn the differences, uses, and best practices

Fiber Optic Connector Types Guide | LC, SC, MPO, ST & More

In this guide, you'll explore various types of fiber optic cable connectors, each with unique features and best uses. Knowing what

Fiber Connectors

Fiber Optic Connectors are used to connect two runs of fiber optic cable and consist of an adapter assembly along with two plugs.

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Fiber optic connectors may look small, but they play a decisive role in the performance of today's high-speed networks.

Different types of fiber optic cable connectors

This article will give you an exact idea about different types of fiber optic cable connectors and various features of

Optical fiber connector

Optical fiber connectors are categorized into single-mode and multimode types based on their distinct characteristics. Industry

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This guide explains the most common types of fiber optic connectors, their features, advantages, and how to select

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Guide comparing fiber connector types, their features, applications and selection tips for

A Breakdown of Fiber Optic Patch Connectors and Their Applications

Simplex vs Duplex In order to make some sense of the various types of connectors out there, first we should talk

Understanding Fiber Optic Cables & Connectors

This fundamental difference allows fiber optics to achieve higher speeds and greater distances, making them the preferred choice for

Fiber Optic Connectors Explained: Design, Types & Applications

Fiber cable connector types are differentiated by fiber counts, boot lengths, polishing methods, termination types and

The Ultimate Guide to Fiber Optic Connector Types (2026 Edition)

In this comprehensive guide, we will break down the most common fiber optic connector types, their unique advantages, and how to

Fiber Optic Connector Types Fully Explained | FiberMania OEM

This article explores the wide range of fiber optic connector types, from legacy SC and ST to modern MPO/MTP and

Fiber Optic Cable Connector Types Explained: LC, SC, ST, FC

The most common types of fiber-optic connectors differ in ferrule size, coupling style, density, and suitability for

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