Complete List of Home Fiber Optic Connector Models



Overview

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

Key Takeaways

Home fiber optic networks commonly use SC, LC, ST, FC, and MPO/MTP connectors, with variations in ferrule size, coupling type, and polishing for single-mode or multimode fibers. Common Home Fiber Optic ConnectorsSC (Subscriber Connector)Square-shaped, push-pull coupling. Ferrule size: 2.

5 mm.

Common in FTT

H deployments and residential telecom wiring. Variants: SC/UPC (Ultra Physical Contact), SC/APC (Angled Physical Contact) for low return loss applications.

L

C (Lucent Connector)Miniaturized version of SC, latch mechanism similar to RJ45. Ferrule size: 1. 25 mm.

Ideal for high-density home patch panels or small enclosures. Variants: LC/UPC, LC/APC for single-mode or multimode fibers.

S

T (Straight Tip)Bayonet-style twist-lock mechanism. Ferrule size: 2. 5 mm.

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Often used in legacy home networks or industrial-grade installations. Compatible with multimode fibers.

F

C (Ferrule Connector)Threaded coupling for secure connections. Ferrule size: 2. 5 mm.

Less common in home networks, more for high-vibration or precision setups. Variants: FC/PC, FC/APC. MPO/MTP (Multi-Fiber Push-On)High-density multi-fiber connectors.

Can connect 12–24 fibers in a single ferrule. Used in advanced home setups with high-bandwidth requirements or fiber aggregation. Other Specialized ConnectorsE2000: Push-pull with protective shutter, used in premium home or small office networks.

M

U: Miniature unit for high-density applications.

DI

N, SMA, FDDI/MIC: Rare in home setups, mostly legacy or industrial. Key Considerations for Home UseSingle-mode vs Multimode: Single-mode (SM) for long-distance FTTH; multimode (MM) for short-distance home networks. Polishing Type: UPC for general use, APC for low back-reflection in sensitive applications like GPON.

Form Factor: LC for compact spaces, SC for easier handling, ST for legacy compatibility. Duplex vs Simplex: Duplex connectors allow simultaneous send/receive in one cable, common in home routers and ONTs. Manufacturer ExamplesTE Connectivity: Offers standard and ruggedized connectors, cable mount or panel mount options.

Amphenol LT

W: Provides SC, LC, ST, and MPO connectors suitable for home and small office networks. This list covers the most widely used home fiber optic connector models, including their variations and typical applications, ensuring compatibility with residential FTTH, home data centers, and small office fiber networks.

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Fiber connectors come in different types according to polishing methods, booth length, and transmission media. Learn the most common types in this post.

Fiber Optic Connectors

Whether you are installing a brand new fiber optic network or you are repairing a legacy system, using this fiber optic connector guide will help you determine

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Different optical fiber connector designs exist to address various technical needs. The table below summarizes the coupling mechanism, ferrule size, and typical uses of the most common

How Many Fiber Connector Types Do You Know?

There are different fiber optic connectors types, including LC/SC/ST/FC/MU/DIN fiber connectors, Rosenberger Q-RMC/NEX10 connectors and more. Simplex vs duplex fiber connectors,

The Most Complete Summary Of Fiber Optic Connector

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The basic principle of a fiber optic connector is to accurately align the ends of two optical fibers by means of a precision-designed ferrule and

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Fiber Optic Connector Types Explained | FiberCablesDirect

Fiber optic connectors are an essential component of any fiber optic network, allowing for the connection and transmission of optical signals between devices. But with so many different types of fiber optic

Fiber Optic Connectors Information

Fiber optic connectors are used to align and join two or more fibers together to provide a means for attaching to, or decoupling from, a transmitter, receiver, or any other fiber optic equipment.

A Complete Guide to Fiber Optic Connectors

There are a bunch of different fiber optic connector types to suit all sorts of applications. Picking the right connector for the job is key to getting the best performance from your fiber optic

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 about optical fiber termination types, fiber optic cable connectors, and

Fiber Optic Cable Types: A Complete Guide

The plethora of fiber optic cable types can seem overwhelming, but choosing the right cable for the job is important. Read on to learn what fiber optic cables are and which cables you need.

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