

Single-mode two-core SC connector fiber optic cable



AI Overview

A single-mode dual-core SC connector is a fiber optic connector with two single-mode fibers in one cable, using SC-type connectors for reliable long-distance data transmission.

Overview A single-mode dual-core SC connector consists of two single-mode fibers bundled together, each capable of propagating a single light mode, which makes it ideal for long-distance communication and high-speed data transmission. The SC (Subscriber Connector) type features a ceramic ferrule and a push-pull coupling mechanism, ensuring precise alignment, low insertion loss, and high return loss.

Key Features

- Dual-Core Design:** Contains two single-mode fibers, allowing simultaneous bidirectional data transmission or redundancy in networks.
- Connector Type:** SC-type connectors with ceramic ferrules provide high repeatability, interchangeability, and durability.
- Performance:** Low insertion loss, typically around 0.12 dB for single-mode fibers, and high return loss (>50 dB), ensuring minimal signal degradation.
- Durability:** Protective shells and strong tensile resistance make these connectors suitable for long-term installations and repeated handling.
- Cable Diameter:** Commonly 3 mm for dual-core jumpers, providing mechanical protection while maintaining flexibility.

Applications Single-mode dual-core SC connectors are widely used in:

- Optical fiber communication systems
- Optical fiber access networks (FTTx)
- Data centers and LAN environments
- Telecommunications networks
- High-speed long-distance data transmission

Advantages

- High precision and reliability due to ceramic ferrules and SC connector design
- Supports long-distance transmission with minimal signal loss
- Easy installation with field-terminable options available
- Compatibility with standard single-mode fiber systems and SC ports

Summary A single-mode dual-core SC connector is an efficient solution for high-perf...

Article Content

Singlemode SC Connectors Fiber Optic Connectors – Mouser

Mouser offers inventory, pricing, & datasheets for Singlemode SC Connectors Fiber Optic Connectors.

Fiber Optic Pigtail OM4 MultiMode SC | Fiber4u Technologies |

Operating Temperature: -20°C to +60°C (IEC 61300-2-22) for reliable performance in various environments. Material: Made from high-quality fiber optic cable with robust connectors, offering long

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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.

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Fiber Optic Pigtail: The Complete Guide to Types,

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Everything you need to know about fiber optic termination

Different connectors and splice termination procedures are used for singlemode and multimode connectors, so make sure you know what the fiber will be before you

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OS2 LC to SC 9/125 Single-mode Duplex Fiber Optic Patch Cable, manufactured with the highest quality Corning optical fiber glass and terminated with 1.25mm

Fiber Optic Cable Assemblies | Fiber Patch Cords and

Corning offers the most complete line of connectors and factory-terminated cables, from single-fiber patch cords to high-fiber-count assemblies.

Optical fiber connector

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

How Fibre Optic Communication Works – Wray Castle

Fibre optic communication is the process of sending data as pulses of light through thin strands of glass or plastic fibers. At its core, the technology converts electrical signals into light

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