

Single-mode fiber optic patch cord models and specifications



Article Overview

Single-mode fiber optic patch cords are available in various connector types, lengths, and performance grades, with low insertion loss and high return loss for reliable optical transmission.

Specifications Table

Parameter	Typical Values / Options	Notes	Fiber Type	OS2 (9/125 μm)
Standard single-mode fiber for long-distance and high-speed applications	Connector Types	LC, SC, ST, FC, E2000, MU, MTRJ	Duplex or simplex; hybrid connectors available for FC/PC or FC/APC Polish Type	UPC (Ultra Physical Contact), APC (Angled Physical Contact)
APC reduces back reflection; UPC common for general telecom	Insertion Loss	≤ 0.3 dB typical	Verified for each patch cord; low-loss connectors ensure minimal signal degradation	Return Loss
≥ 50 dB (UPC), ≥ 60 dB (APC)	High return loss ensures minimal reflection and signal interference	Cable Jacket	PVC, LSZH, OFNR	Flame-retardant, rugged, and durable; suitable for riser or indoor applications
Cable Diameter	2.0 – 3.0 mm	Bend-insensitive fiber available; supports tight bend radius (7.5 mm) without signal loss	Tensile Strength	100 – 200 N typical
Ensures durability during installation and handling	Operating Temperature	-20°C to +70°C	Suitable for indoor and controlled environments	Standard Lengths
1 m, 2 m, 3 m, 5 m, custom	Custom lengths available for specific deployment needs	Compliance	TIA 604 (FOCIS), IEC 61754, YD/T	Industry standards for connector and fiber performance
Applications	Data centers, LAN/WAN, FTTx, CATV, telecom, microscopy, beam delivery	Supports high-speed Ethernet, Fiber Channel, and laser applications...		

Article Content

Single Mode Patch Cords

Techlogiks Single Mode fiber patch cords provide connections from active components to patch panels and

Single Mode Optical Fibers | Ocean Optics

Single-mode optical fiber assemblies are durable, high-quality patch cords that deliver uniform results with

Single Mode Fiber Optic Patch Cables

Thorlabs offers single mode fiber optic patch cables with a variety of connector options, including FC/PC, FC/APC, and hybrid FC/PC

Single Mode Fiber Optic Cables

Buy 1m Amphenol FO-DLSCDLLC00-001 Cables Direct from the Factory at Cables on Demand. 100% optically tested duplex single

Single Mode Fiber Optic Cable, Patch Cords cables

The fiber optic connector interfaces come complete with your choice of Angled Physical Contact (APC) or Ultra Physical Contact

Standard Fiber Patch Cables Datasheet | FS

Standard Fiber Patch Cables Fiber optic patch cables are ideal for supporting high speed telecommunication network fiber

Single Mode Fiber Optic Patch Cord

Fiber optic patch cord comprises two tight buffer fibers housed within a common outer jacket in OS2 Single Mode variants. Both ends

MPO Single-Mode Fiber Patch Cords: OS1 and OS2 Solutions

MPO single-mode fiber patch cords with OS1 or OS2 fibers provide scalable, high-performance connectivity solutions.

Single-mode Patch Cables

FIBERTRONICS Single-mode Patch Cables feature a core with a very small diameter that only allows one mode of light through. As

Fiber Optic Cable Types Explained: Choosing the Right Fiber Cable

Explore different types of fiber optic cables, from single mode to armored and LC uniboot options. Learn how to choose the right fiber

Fiber Patch Cable Guide

GT-SCSCDS2Y-xM fiber optic patch cords are ideal for short distance patching applications. These fiber optic cables have been built

Single-Fiber Patch Cords

Jumper in a Box offers the most complete line of connectors and factory-terminated cables, from single-fiber patch

Singlemode Patch Cords

Description Linxcom offers a wide range of Singlemode Patch Cords, designed and manufactured for demanding LAN and telecom

Single Mode Fiber Optic Patchcords

Designed for use with lasers from 450 – 1650nm in 1m, 2m and 5m standard lengths, these Single Mode Fiber Optic Patchcords are

OPTIC FIBER PATCH CORD DATA SHEET

Pixel offers simplex and duplex patch cords in a variety of connectors and cables configurations with low insertion loss. Pixel gives a

LCFiberOpticPatchCordCables LC F

Description Fiber Optic Patch Cable also known as fiber patch cord cable,optical cable or fiber optic jumper. As an important

Single-Mode Fiber Cable Guide: Types, Specs & Selection

Introduction Fiber optic cables are the backbone of modern telecommunications infrastructure, enabling high-speed

1m Single Mode Fiber Patch Cable LC-SC | LC Fiber Cables

The SMFIBLCSC1 1m LC to SC Single-Mode Duplex Fiber Cable features 9/125 micron fiber for high-speed, high bandwidth data

Single-Mode Fiber Patch Cords | Customizable | FIBERONE

FIBERONE® manufactures simplex and duplex single-mode fiber optic patch cords to standard or custom lengths, colors, connector

Fiber Optic Cable Assemblies | Fiber Patch Cords and Fiber Jumpers ...

Fiber Optic Cable Assemblies Corning offers the most complete line of connectors and factory-terminated cables, from single-fiber

The complete guide to OM1, OM2, OM3 and OM4 patch cord

Beyondtech Blog What you need to know about OM1, OM2, OM3 and OM4 fiber There are two different kinds of

3M Fiber Optic Patch Cords and Pigtails

3MTM Fiber Optic Patch Cords and Pigtails 3MTM Patch Cords provide the interface between distribution cables and active optical

Types And Applications of Single-Mode Fiber Optic Patch Cords

Single-mode fiber optic patch cords can be divided into two types: OS1 single-mode and OS2 single-mode. OS1

Fiber Optic Cable Types Explained

Our comprehensive guide to types of fiber optic cables. Learn all about the differences between single mode and multimode cables,

Corning Single Mode Fiber Optic Patch Cables

The Corning single mode fiber patch cables with 8.2-micron cores provide the highest quality solution for applications where low

Standard Singlemode Patch Cables | Single Mode Optical Fibers

Our standard patch cables are available in several different lengths and connector types. These fibers have a 900 µm jacket

SINGLE-MODE FIBER OPTIC PATCH CABLES

Non-conductive, noise immune and affordable connections Get the best price-to-performance ration with these high quality, duplex,

Fiber Optic Patch Cords

APPLICATION Fiber Optic Patch Cords are designed to interconnect or cross connect fiber networks within structured cabling

Single Mode Fiber Optic Patch Cables

Singlemode fiber optic patch cables come with a 9 micron diameter glass core. With the cladding layer, they are 125 micron, and with

Single-mode Patch Cables

This simple guide should help you in understanding the various fiber optic connectors on the market and get you up and running in

Singlemode Fiber Optic Patch Cord Cable Assembly Specifications

Singlemode Fiber Optic Patch Cord Cable Assembly Specifications Introduction: Fiberdyne Labs, Inc. offers a complete line of

Standard Fiber Patch Cables Datasheet

According to different transmission distances and bandwidth requirements, the products are divided into two

FIBER PATCH CABLES DATASHEET

E2000 FIBER OPTIC PATCH CORDS Designed for data center, enterprise, FTTx, LAN and WAN, CATV network, telecom network

What Is Fiber Patch Cord? Singlemode/Multimode,LC SC FC,UPC Vs

This article systematically introduces fiber patch cord basics, optical specifications and full-range industry applications

Contact Us

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