ZITHA TECH SPECIALTY CABLES (Pty) Ltd

10 Gigabit Fiber Optic Cable lc-lc Single Mode



Overview

The Cisco SFP-10G-LR10-I supports a link length of 10 kilometers on standard Single-Mode Fiber (SMF, G.652).

Key Takeaways

A 10 Gigabit LC-LC single-mode fiber optic cable (OS2/OS1, 9/125µm) supports high-speed data transmission up to 10 km at 1310nm and 30–40 km at 1550nm, ideal for long-distance 10GbE networks.Key Specifications

• Fiber Type: Single-mode (OS2 or OS1), 9 µm core / 125 µm cladding

• Connector Type: LC duplex, 1.25 mm ceramic ferrule

• Transmission Speed: Supports 10 Gigabit Ethernet (10GbE) networks

• Wavelengths: Typically 1310 nm and 1550 nm for long-distance transmission

• Maximum Distance: 5–10 km at 1310 nm, 30–40 km at 1550 nm

• Jacket Type: PVC, OFNR (riser rated), or LSZH (low-smoke, zero halogen) for safety and flexibility

• Outer Diameter: Standard 2.0 mm, zip-cord reinforced for durability

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• Bend Radius: Flexible design allows tight bends (e.g., 7.5 mm radius) without signal loss

Features and Benefits

• High-Quality Fiber: Often manufactured with Corning optical fiber for low-loss, high-bandwidth performance

• Durable Connectors: LC connectors with ceramic ferrules ensure precise alignment and minimal insertion loss

• Compatibility: Works with SFP+ transceivers such as Cisco SFP-10G-LR, Ubiquiti, Meraki, D-Link, Netgear, TP-Link, and other 10G SFP+ devices

• Hot-Swappable: Compatible with plug-and-play SFP+ modules for easy installation without network downtime

• Color Coding: Yellow jacket is standard for single-mode fiber, aiding in network organization

Applications

• Data Centers: High-speed backbone connections between switches and servers

• Enterprise Networks: Long-distance 10GbE links across buildings or campuses

• Telecommunications: Fiber optic links requiring low attenuation and high signal fidelity

• Industrial Networks: Ruggedized installations with LSZH or OFNR jackets

Purchasing Options

• Available in various lengths (1 m to 10 m or longer) and often sold in packs with compatible SFP+ modules

• Lifetime warranties are common, ensuring replacement if the cable fails under normal use This type of cable is ideal for high-bandwidth, long-distance networking where maintaining signal integrity and low latency is critical. It is widely used in modern 10GbE networks and is compatible with most standard LC duplex SFP+ transceivers.

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Article Content

10 Pack 10Gb Singlemode Module with 10m OS2 LC to LC Fiber

What You Get: 10GBase-LR Module x10, 10m OS2 LC Cable x1; Provides 24/7 Customer Service, 30 Days Free-returned, 3 Year

H!Fiber 10G Single Mode SFP+ LC Module, 10GBase

H!Fiber offers one-stop Datacenter solution and products,

Cisco 10GBASE SFP+ Modules Data Sheet

The Cisco SFP-10G-LR10-I supports a link length of 10 kilometers on standard Single-Mode Fiber (SMF, G.652). The

Bare Fiber Optic Cable 10 km Simplex Single-mode LC-LC

Single-mode (OS2) Simplex Bare Fiber Optic Cable. 10 km / 10000 meters (Approx. 32808ft) LC-LC 9/125

Monoprice Fiber Optic Cable, LC/LC, Single Mode, Duplex

About this item Yellow single-mode cable with a 9m core and 125m cladding diameter. Color-coded dual LC connectors on each end.

10Gtek Fiber Patch Cable

10Gtek LC-LC Fiber Patch Cord, OM3 Multi-mode Duplex, LSZH, 1-meter 10 Gigabit Performance for

Threlaco 1 M/ 3.28 ft 10 Pack Lc to Lc Single Mode

Phenomenal Transmission Distance: the OS2 single mode lc to lc patch cable can transmit data up to

10 Meter Singlemode Duplex Fiber Optic Cable (9/125)

Our Fiber Optic Cables are engineered for universal compatibility with a wide range of networking devices. Perfectly suited for

Duplex Singlemode 9/125 Fiber Optic Cable LC-LC, 10M 33-ft | Eaton

Singlemode duplex fiber optic LC/LC Ethernet cable is manufactured from 9/125 zipcord fiber. The cable has LC connectors on one

U®Fiber Modules and FiberCable Datasheet

The 10G multi-mode fiber patch cables are ideal for indoor telecommunications and data networks using our routing and switching

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10Gtek Fiber Patch Cable

10Gtek Fiber Patch Cable - LC to LC OS2 10Gb/Gigabit Singlemode Jumper Duplex 9/125 LSZH Fiber Optic Cord for SMF SFP

10 meter LC/LC Singlemode Duplex Fiber Optic Cable, 9/125

Product Description This 10 meter (~33 feet) fiber optic cable is terminated with LC (Lucent Connector) connectors on both ends. It is

Single Mode LC Gigabit Fiber to Ethernet Media Converter, LC SFP ...

Single Mode LC Gigabit Fiber to Ethernet Media Converter, LC SFP Included | SFP 1310nm 20 km/12.43 miles, Cat6 cable in set -

10Gtek Fiber Patch Cable

10Gtek Fiber Patch Cable - LC to LC OS2 10Gb/Gigabit Singlemode Jumper Duplex 9/125 LSZH Fiber

FLYPROFiber

About this item □□3M (10ft) OS2 SC-LC Fiber Optic Patch Cable Single Mode 1G/10G is designed for high density applications in

Bare Fiber Optic Cable 10 km Simplex Single-mode LC-LC

Single-mode (OS2) Simplex Bare Fiber Optic Cable. 10 km / 10000 meters (Approx. 32808ft) LC-LC 9/125

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10Gtek Fiber Patch Cable

10Gtek LC-LC Fiber Patch Cord, OM3 Multi-mode Duplex, LSZH, 0.2-meter 10 Gigabit Performance for Critical Connections These

Cisco LC-LC 10 Meter Multimode Fiber Optic Cable 10Gbps LC/LC

How does the LC-LC-10-Meter-Multimode-Fiber-Optic-Cable compare to similar products? It offers reliable performance for 10Gb

ipolex OS2 SC to LC Fiber Patch Cable Single Mode Duplex

About this item Premium Performance for Advanced Networks: Engineered for high-speed connectivity, Ipolex''s 10m (33ft) LC to SC

StarTech 10m OS1 Fiber Cable, LC to SC, 9/125 Duplex, LSZH

The SMFIBLCSC10 10m LC to SC Single-Mode Duplex Fiber Cable features 9/125 micron fiber for high-speed, high bandwidth data

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10Gtek Fiber Patch Cable - LC to LC OS2 10Gb/Gigabit Singlemode Jumper Duplex 9/125 LSZH Fiber Optic Cord for SMF SFP

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Bare Fiber Optic Cable 10 km Simplex Single-mode LC-LC

Single mode Bare Fiber Optic Cable featuring 10 km / 10000 meters LC-LC

SFP 10 Gigabit Fiber Module

Find great prices on our 10GBase-LR LC singlemode 1310nm SFP ethernet fiber modules.

Intellinet 10 Gigabit Fiber SFP + (LC) Single-Mode

The Intellinet 10 Gigabit Fiber SFP Optical Transceiver Module (model 507479) is fully hot

10 Gigabit Ethernet connectivity over single-mode fiber,

This SFP+ transceiver allows you to connect an 9/125 singlemode fiber optic cable to a 10 Gbps network

10 Gbps | Single Mode Fiber | LC | 10 km (6.2 mi)

THE IT PRO''S CHOICE: Designed and built for IT Professionals, this SFP module is backed for life

10G SFP

Looking for a cost-effective SFP+ solution that enables higher port densities and greater bandwidth?

10 m LC/LC Duplex 9/125 Single Mode Fiber Optic Cable

With LC to LC termination, this high-quality fiber optic patch cable is specifically

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