

Interface type dual lc



1075KWHH ESS

AI Overview

A Dual LC Interface, also known as a Duplex LC connector, is a compact fiber optic connector that supports full-duplex communication using two fibers—one for transmitting and one for receiving signals.

Overview

A Dual LC Interface combines two LC (Lucent Connector) connectors into a single paired interface using a duplex clip, enabling simultaneous bidirectional data transmission. This configuration is widely used in SFP, SFP+, and SFP28 optical transceivers for Ethernet and telecom networks, supporting speeds from 1G to 25G and beyond . The LC connector's small 1.25 mm ferrule allows high-density port layouts, making it ideal for data centers and backbone infrastructure .

Design and Components

A duplex LC connector includes:

- Ferrules: Two 1.25 mm zirconia ceramic ferrules for precise fiber alignment .
- Body/Housing: Plastic shell securing ferrules and internal springs.
- Latch: Push-pull clip for easy connection and disconnection.
- Boot: Protects the cable at the exit and reduces strain.
- Duplex Clip: Holds two simplex LC connectors together in a duplex pair.
- Polish Types: UPC (Ultra Physical Contact) for flat polish and APC (Angled Physical Contact) for angled polish, with APC preferred in DWDM and CATV applications to minimize reflections

Article Content

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This article explains the function of dual LC fiber optic modules, highlighting their role in full-duplex communication, compatibility

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Optical fiber connector

A multiple-jointed connector assembly is a connector assembly where there is more than one closely

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LC Connector | FO Connector LC-Simplex, LC-Duplex

The LC is a small-form-factor connector system for fibre optic cabling in telecommunications systems, data centres and LANs. LC

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Connector types

Dual LC connectors (Duplex) are typically used in normal optical types. Fiber connectors used for insertion

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A guide to LC fiber optics. Learn LC connector geometry, UPC/APC polish types, ULL

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What Is an SFP Duplex LC Connector in Fiber Networks

A duplex LC connector is a fiber optic connector configuration that combines two LC connectors in a single paired

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LC Connectors and Cable Assemblies

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LC Connector Types: A Comprehensive Guide

LC Simplex Connector The LC simplex connector is one of the most common LC connector

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What is a Duplex LC Connector? Definition of a Duplex LC Connector A duplex LC

Contact Us

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