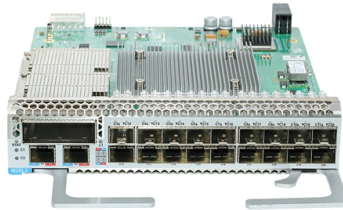


Dual LC interface AB interchange



Summary of Content

A dual LC interface (duplex LC) allows bidirectional fiber communication, with A/B polarity determining transmit and receive paths, and polarity-reversible designs enable easy interchange without re-termination.

Overview of Duplex LC Connectors

A duplex LC connector houses two fibers side-by-side—one for transmit (Tx) and one for receive (Rx)—enabling simultaneous bidirectional communication. Each fiber is aligned using a 1.25 mm ceramic ferrule, smaller than the 2.5 mm ferrule used in SC connectors, which allows for higher port density in data centers and telecom environments. Duplex LC connectors are commonly used in Ethernet, telecom, and high-speed networking applications where two-way communication is required.

A/B Polarity in Duplex LC

The A/B designation refers to the fiber orientation within the duplex connector:

- A fiber: Typically connected to the transmitter (Tx) of one device and the receiver (Rx) of the other.
- B fiber: Typically connected to the receiver (Rx) of the first device and the transmitter (Tx) of the other. Maintaining correct A/B polarity is critical to ensure proper signal flow. Misalignment can result in communication failure or signal loss.

Polarity Interchange and Management

Article Content

LC EZ-Way Handout 2025

SENKO has engineered dual LC connectors designed to match the precise QSFP-DD footprint with a “belly to belly” configuration.

OCC RLRD121LC02B L-JACK® Industrial Dual LC Solution

Compliant with IEC 61540-20, Telecordia GR-326, and TIA-604-10-A standards, the L-JACK connector accommodates standard LC

LC Connectors and Adapters | OEM Optical Communication Solutions

These products are fully intermateable with standard LC licensed products and deliver long-term stability under a broad range of

Single vs Dual Fiber Media Converters (2025): A/B Pairing and WDM

Short answer: Usually yes, you use them in pairs, but the “pair” can be a media converter on one end and a fiber switch

Dual LC – GIGALIGHT

GIGALIGHT provides a series of high-density MPO/MTP multi-fiber cables and LC/VSFF duplex fiber cables for data center cabling

Fiber Optic Couplers-LC Dual (Square Port),Adapter coupler

In short, with its high performance and wide applicability, LC Dual Function Coupler (Square Port) has become an indispensable key

Duplex LC Connector: Design, Fiber Types, and Best Practices 2025

Learn everything about Duplex LC connectors: design, UPC vs APC, single-mode vs multimode, polarity, plenum vs

Duplex LC Connectors Fibre Optic Connectors – Mouser Europe

Mouser offers inventory, pricing, & datasheets for Duplex LC Connectors Fibre Optic Connectors.

Dual LC Connectors | Products & Suppliers | GlobalSpec

Description: This coupler provides a simple and easy way to link together two fiber optic cables with LC connectors. Can be used

LC Connectors and Cable Assemblies

LC Adapters and Cable Assemblies meet the growing demand for small form factor, high-density fiber optic connectivity with simplex,

Contact Us

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