



## LC-LC (UPC) OS2 SINGLE MODE DUPLEX FIBRE OPTIC CABLE

**PART NO.:** KB-LCLC-SM0xx

**DESCRIPTION:** OS2 LC-LC Duplex Single-Mode Fibre Patch Cord, LSZH

The KAYBE OS2 LC-LC Single Mode Duplex Fibre Optic Patch Cable delivers reliable high-speed connectivity for 100G networks, supporting CWDM across a wide 1260–1625 nm wavelength range for strong signal performance over long distances. Constructed with 9/125 µm single-mode fibre, it is laser-optimized for data centers and remains backward compatible with OS1 networks. Precision ceramic ferrules ensure accurate alignment with insertion loss below 0.3 dB, while UPC-polished LC connectors provide superior return loss. Its bend-insensitive design minimizes signal loss and exceeds ITU-T G652.D/G657.A1 and IEC standards. The LSZH flame-retardant jacket emits minimal smoke and toxic fumes, making it ideal for safe installations in data centers, industrial, transport, and residential environments.



### KEY FEATURES

- 1. Superior Build Quality:** LC-LC connectors with UPC polishing deliver improved return loss compared to traditional PC polish.
- 2. Safe & Reliable Performance:** Individually tested for consistent performance; LSZH jacket minimizes toxic fumes in case of fire.
- 3. Broad Network Compatibility:** Single-mode fibre patch cord supports 100G networks, is backward compatible with OS1, and offers high micro-bend resistance for tight routing in complex data center installations.
- 4. Enhanced Fire Safety:** Low Smoke Zero Halogen (LSZH) fire-retardant cable jacket.

## CONSTRUCTION DATA SHEET

<b>ADAPTERS SUPPORTED</b>		Connector A1 - Fibre Optic LC Duplex Connector B1 - Fibre Optic LC Duplex
<b>PRODUCT SPECIFICATIONS</b>		
1-PLUG		Blue
2-BOOT		White
3-CABLE		OS2 Yellow
Insertion Loss(dB)		≤0.3dB
Cable diameter		3mm
Cable type		LSZH
Ferrule Interface type		PC
Mode		9/125

## ENVIRONMENTAL CHARACTERISTICS

Operating Temperature	-20°C to 70°C
Storage Temperature	-20°C to 70°C

## ORDERING INFORMATION AS PER FOLLOWS

PART NO	PRODUCT DESCRIPTION	LENGTH
KB-LCLC-SM010	LC-LC (UPC) OS2 Single Mode Duplex Fibre Optic Cable	1.0m
KB-LCLC-SM020	LC-LC (UPC) OS2 Single Mode Duplex Fibre Optic Cable	2m
KB-LCLC-SM030	LC-LC (UPC) OS2 Single Mode Duplex Fibre Optic Cable	3m
KB-LCLC-SM050	LC-LC (UPC) OS2 Single Mode Duplex Fibre Optic Cable	5m
KB-LCLC-SM100	LC-LC (UPC) OS2 Single Mode Duplex Fibre Optic Cable	10m
KB-LCLC-SM200	LC-LC (UPC) OS2 Single Mode Duplex Fibre Optic Cable	20m
KB-LCLC-SM300	LC-LC (UPC) OS2 Single Mode Duplex Fibre Optic Cable	30m
KB-LCLC-SM500	LC-LC (UPC) OS2 Single Mode Duplex Fibre Optic Cable	50m

## OTHER PRODUCTS INCLUDE

<b>LC-SC (UPC) OS2 SINGLE MODE DUPLEX FIBRE OPTIC CABLE</b>	<b>SC-SC (UPC) OS2 SINGLE MODE DUPLEX FIBRE OPTIC CABLE</b>	<b>LC-LC (UPC) OM4 MULTI MODE DUPLEX FIBRE OPTIC CABLE</b>	<b>LC-SC (UPC) OM4 MULTI MODE DUPLEX FIBRE OPTIC CABLE</b>
<b>SC-SC (UPC) OM4 MULTI MODE DUPLEX FIBRE OPTIC CABLE</b>	<b>LC-LC (UPC) OM5 MULTI MODE DUPLEX FIBRE OPTIC CABLE</b>	<b>LC-SC (UPC) OM5 MULTI MODE DUPLEX FIBRE OPTIC CABLE</b>	