

LC UPC TO LC UPC DUPLEX OS2 SINGLE MODE PATCH CABLE

PRODUCT SPECIFICATION SHEET | DUPLEX FIBER OPTIC PATCH CORD

PRODUCT OVERVIEW

The **LC UPC to LC UPC Duplex OS2 Single Mode Fiber Patch Cable** features high-precision LC connectors on both ends with UPC polish, designed for high-speed optical network connectivity in telecommunications and data center environments. Constructed with bend-insensitive G.657.A1 fiber (fully compatible with G. 652.D), it offers low insertion loss, high return loss, and excellent long-term durability.

KEY FEATURES

- Low Insertion Loss:** Ceramic ferrule ensures insertion loss $\leq 0.3\text{dB}$.
- Bend-Insensitive Fiber:** G.657.A1 fiber enables tight bend radii for neat management.
- Flame-Retardant Jacket:** Riser (OFNR) jacket rating for safe indoor deployment.
- High Reliability:** Standardized durability exceeding 1000 mating cycles.



TECHNICAL SPECIFICATIONS

Connector A	LC UPC Duplex	Connector B	LC UPC Duplex
Fiber Count	2 Cores (Duplex)	Fiber Grade	G.657.A1 (Compatible with G.652.D)
Fiber Type	OS2 9/125 μm	Wavelength	1310 / 1550 nm
Flame Rating	Riser (OFNR)	Cable Outer Dia. (OD)	2.0 mm / 3.0 mm
Polarity	A(Tx) to B(Rx)	Cable Type	Tight-Buffered
Min. Bend Radius (Fiber)	10 mm	Min. Bend Radius (Cable)	10 / 5D (Dynamic / Static)
Connector Durability	1000 Cycles	Tensile Strength	90 / 150 N (Long / Short Term)
Insertion Loss	$\leq 0.3\text{ dB}$	Return Loss	$> 50\text{ dB}$
1310nm Attenuation	$\leq 0.4\text{ dB/km}$	1550nm Attenuation	$\leq 0.3\text{ dB/km}$
Operating Temp.	-10 to 70°C (14 to 158°F)	Storage Temp.	-20 to 70°C (-4 to 158°F)

* Note: The above data is for reference only.