

DESCRIPTION

Bellcom LC/UPC-to-LC/UPC duplex fiber optic patch cords are high-speed 10 Gigabit OS2 single-mode assemblies built with 9/125 µm fiber and a low-smoke zero-halogen jacket. Small-form-factor LC connectors provide compact, snap-in connectivity for high-density fiber panels, SFP modules, and XFP transceivers.

KEY FEATURES

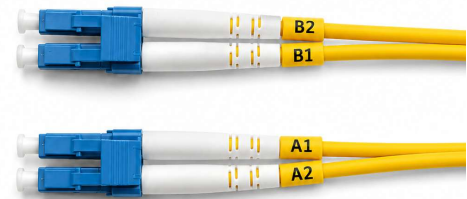
- OS2 9/125 µm single-mode fiber for high-speed 10 Gigabit networks
- Duplex LC/UPC connectors factory terminated at both ends
- Typical insertion loss of ≤ 0.20 dB and maximum insertion loss of ≤ 0.30 dB
- Low-smoke zero-halogen (LSZH) jacket material
- Snap-in LC connectors support quick, reliable installation
- Small-form-factor connectors suit high-density fiber environments
- Available in various lengths

APPLICATIONS

- Data centers and enterprise fiber networks
- SFP and XFP transceiver interconnections
- High-density fiber patch panels and distribution units
- LAN / WAN backbone and equipment patching
- 10 Gigabit Ethernet single-mode links

PRODUCT SUMMARY

Property	Specification
Product Type	Fiber Optic Duplex Patch Cord
Fiber Mode	OS2 Single-mode
Core / Cladding	9/125 µm
Connector A	LC/UPC Duplex
Connector B	LC/UPC Duplex
Jacket	LSZH
Network Rating	10 Gigabit
SKU	BL-LULU-OS2N

**CONSTRUCTION & CHARACTERISTICS**

Component	Property	Specification
Fiber	Classification	OS2 Single-mode
Fiber	Core / Cladding	9/125 µm
Fiber	Configuration	Duplex
Cable	Network Application	High-speed 10 Gigabit single-mode links
Connector	End A	LC duplex
Connector	End B	LC duplex
Connector	Polish	UPC
Connector	Format	Small form factor, snap-in
Jacket	Material	LSZH
Availability	Length	Various
Testing	Geometry	Interferometer inspection
Testing	Optical	Automated insertion loss and reflection testing
Performance	Typical Insertion Loss	≤ 0.20 dB
Performance	Maximum Insertion Loss	≤ 0.30 dB
Compatibility	Interfaces	SFP modules and XFP transceivers
Compliance	Listings	UL Listed (Canada and US); RoHS compliant

CONNECTOR & CABLE CONFIGURATION

Parameter	Configuration
Connector End A	LC/UPC Duplex
Connector End B	LC/UPC Duplex
Fiber	OS2 9/125 µm Single-mode
Cable	Duplex
Jacket	LSZH
Availability	Various lengths

Both ends are factory terminated with duplex LC/UPC connectors. The compact snap-in format supports high-density patching and plug-and-play interconnection to LC adapter panels, SFP modules, and XFP transceivers.

OPTICAL / TECHNICAL PERFORMANCE

Property	Specification
Fiber Classification	OS2 single-mode
Core / Cladding Size	9/125 μm
Connector Configuration	LC/UPC duplex to LC/UPC duplex
Network Capability	10 Gigabit single-mode
Typical Insertion Loss	≤ 0.20 dB
Maximum Insertion Loss	≤ 0.30 dB
Jacket Material	LSZH
Quality Control	Interferometer inspection and automated optical testing

INSTALLATION & COMPATIBILITY

Application / System	Configuration	Compatibility	Notes
Data Center Switching	SFP transceiver	Supported	Equipment interconnection
XFP Transceiver Links	LC duplex	Supported	Plug-and-play connection
High-Density Patch Panels	LC adapter ports	Supported	Small-form-factor connectivity
10 Gigabit Ethernet	OS2 9/125 μm	Supported	Single-mode network links
LAN / WAN Backbones	Duplex fiber	Supported	Network backbone patching
Telecommunications	LC-to-LC	Supported	Equipment patching
Server & Storage Networks	OS2 duplex	Supported	High-speed optical links
Fiber Distribution Units	LC adapter	Supported	Rack-mounted distribution
Premise Networks	LSZH jacket	Supported	Indoor installations where required
Custom Assemblies	Various lengths	Available	Confirm at time of order

Insertion-loss values are based on the source product specification. Final installed-link performance depends on the complete channel, adapters, and connected equipment.

STANDARDS & APPROVALS

- UL Listed in Canada and the United States
- RoHS compliant
- OS2 9/125 μm single-mode fiber
- LC/UPC duplex connectors
- Low-smoke zero-halogen (LSZH) jacket
- Interferometer geometry inspection
- Automated insertion loss and reflection testing

ORDERING INFORMATION

SKU	Product Description
BL-LULU-OS2N	LC/UPC-to-LC/UPC OS2 Duplex Fiber Optic Patch Cord, 9/125 μm , LSZH

Available in various lengths. Confirm the required length at time of order.