

## LC – SC G.657.A1 LSZH 2.0mm Simplex Single Mode Fiber Patch Cord



### Description

The BlueOptics© SFP2122BUXMY Fiber Patch Cord is a high performance, cost effective cable for interconnection between two single mode fiber devices, like patch fields and switches.

All BlueOptics© Fiber Patch Cords come with high return loss and low insertion loss.

BlueOptics© single mode Fiber Patch Cords are compliant to Telcordia GR-326-Core.

BlueOptics© Fiber Patch cords are available in many different variants to fit your needs:

- Multi Mode or Single Mode
- LC, SC, ST or E2000© Connector
- Different Connectors on each side
- PC or APC Polish
- Simplex or Duplex

### Applications

- ✓ Backbone Systems
- ✓ In House Cabling
- ✓ Fiber to the Desk

### Features

- ✓ 1x Simplex LC Connector
- ✓ 1x Simplex SC Connector
- ✓ PC or APC Polish
- ✓ High Quality Ceramic Zirconia Ferrule
- ✓ Brand-name Fiber
- ✓ Fiber 9/125µm SM OS2 G.652.D Round Cable
- ✓ Yellow LSZH Coating
- ✓ Insertion Loss:  $\leq 0.2\text{dB}$
- ✓ Return Loss:  $\geq 30\text{dB}$
- ✓ Brand-name Connector
- ✓ Highest Connector Quality: Up 1500 mating cycles
- ✓ Interferometer Tested
- ✓ Single Packed
- ✓ Test Report

## Warnings

**Laser Safety:** Even small radiation emitted by laser devices can be dangerous to human eyes and lead to permanent eye injuries. Be sure to avoid eye contact with direct or indirect radiation.

## Warranty

Every BlueOptics® fiber patch cord comes with a 25 year replacement warranty and lifetime support. For a warranty inquiry, please contact your CBO sales representative.

This warranty only covers the first user of the equipment.

## Important Notice

Performance figures, data and any illustrative material provided in this data sheet are typical and must be specifically confirmed in writing by CBO before they become applicable to any particular order or contract. In accordance with the CBO policy of continuous improvement specifications may change without notice.

The publication of information in this data sheet does not imply freedom from patent or other protective rights of CBO or others.

Further details are available from any CBO sales representative.

## Installation

Before installation attach an ESD-preventive wrist to ensure not to damage your hardware.

Remove the dust caps of the connector.

Put the LC connector into the LC socket of your hardware until you hear a “click” sound.

Put the SC connector into the SC socket of your hardware until you reach the end of the socket.

You can now use your connection.

### If you got problems with the connection:

- Please make sure the connector is clean. If not, use a tissue and anhydrous alcohol to clean it accurately.

## Order Information

Part No.	Length	Polish
SFP2122BU0.5MK	0.5 Meter	PC
SFP2122BU1MK	1 Meter	PC
SFP2122BU2MK	2 Meter	PC
SFP2122BU3MK	3 Meter	PC
SFP2122BU5MK	5 Meter	PC
SFP2122BU7.5MK	7.5 Meter	PC
SFP2122BU10MK	10 Meter	PC
SFP2122BU15MK	15 Meter	PC
SFP2122BU20MK	20 Meter	PC
SFP2122BU30MK	30 Meter	PC
SFP2122BU50MK	50 Meter	PC
SFP2122BU0.5MM	0.5 Meter	APC
SFP2122BU1MM	1 Meter	APC
SFP2122BU2MM	2 Meter	APC
SFP2122BU3MM	3 Meter	APC
SFP2122BU5MM	5 Meter	APC
SFP2122BU7.5MM	7.5 Meter	APC
SFP2122BU10MM	10 Meter	APC
SFP2122BU15MM	15 Meter	APC
SFP2122BU20MM	20 Meter	APC
SFP2122BU30MM	30 Meter	APC
SFP2122BU50MM	50 Meter	APC

## Regulatory Compliance

Feature	Standard	Co.
Smoke Density Purpose	IEC-61034	✓
Halogen Acid Content	IEC-754-1	✓
Flame Resistance	IEC 60332-1, IEC 60332-3	✓
Component Recognition	IEC/EN 60950, UL	✓
RoHS	2002/95/EC	✓
WEEE	2002/96/EG	✓

## 1. LC/UPC and SC/UPC Geometrical Parameter

Parameter	Standard	
	Minimum	Maximum
Radius(mm) – LC	7	25
Radius(mm) – SC	10	25
Apex offset (um)	0	50
Fiber Height(nm)	-0.02*R3 +1.3R2 -31R+325	100

## 2. LC/APC and SC/APC Geometrical Parameter

Parameter	Standard		
	Minimum	Standard	Maximum
Angel(°)	7.5	8	8.5
Radius(mm)	5		12
Apex offset (um)	0		50
Fiber Height(nm)	-100		100

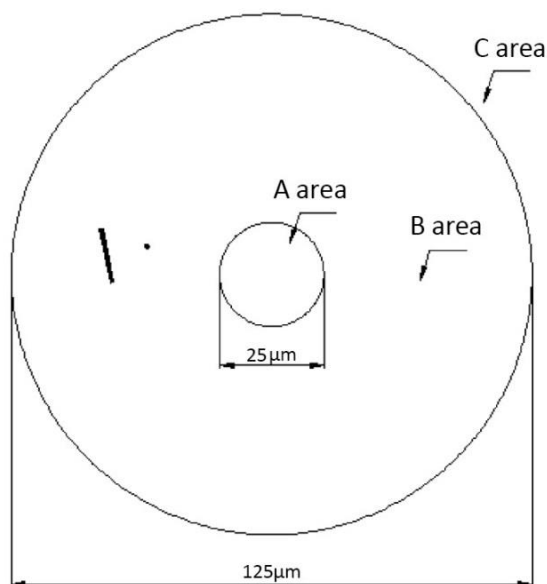
## 3. Mechanical Specifications

Parameter	Standard
Maximum Tensile Load (N)	200
Minimum Bend Radius(mm)	30
	Storage
	Installation
	Operating

## 4. Reliability Performance

Item	Content	Standard Clause	Conclusion
1	New Device Performance	GR-326-Core 4.4.1	OK
2	High Temperature Aging	GR-326-Core 4.4.2.1	OK
3	Temperature Cycle	GR-326-Core 4.4.2.2	OK
4	Damp-heat Aging	GR-326-Core 4.4.2.3	OK
5	Damp & Hot/ Condensation Cycle	GR-326-Core 4.4.2.4	OK
6	Drying (Not test Item)	GR-326-Core 4.4.2.5	N/A
7	Temperature Cycle after Condensation	GR-326-Core 4.4.2.6	OK
8	Vibration	GR-326-Core 4.4.3.1	OK
9	Buckling	GR-326-Core 4.4.3.2	OK
10	Twist	GR-326-Core 4.4.3.3	OK
11	Tensile	GR-326-Core 4.4.3.4	OK
12	Transmission Performance with Loading	GR-326-Core 4.4.3.5	OK
13	Impact	GR-326-Core 4.4.3.7	OK
14	Durability	GR-326-Core 4.4.3.8	OK
15	Device test after environmental and mechanical test	GR-326-Core 4.4.3.9	OK
16	Salt Spray	GR-326-Core 4.4.4.4	OK
17	85°C water soak	GR-326-Core 4.4.4.5	OK

5. Quality assurance



Area A (0~25µm):	Area B (25~125µm):	Area C (125~250µm):
<ul style="list-style-type: none"> <li>- No any scratch, chips / black dot</li> <li>- No cleanable dust</li> </ul>	<ul style="list-style-type: none"> <li>- White slight scratch width = 1µm, no limit of length, Acceptable Quantity=2</li> <li>- No black scratches</li> <li>- Chips /black dot diameter ≤2µm, Acceptable Quantity≤2</li> <li>- No cleanable dust</li> </ul>	<ul style="list-style-type: none"> <li>- White slight scratch width ≤2µm, no limit of length, Acceptable Quantity≤3</li> <li>- No black scratch</li> <li>- Chips /black dot diameter ≤5µm, Acceptable Quantity≤3</li> <li>- No cleanable dust</li> <li>- No flaw for ceramic ferrule</li> </ul>