

## LC – E2000 OM1 LSZH 2.0mm Duplex Multi Mode Fiber Patch Cord



### Description

The BlueOptics© SFP3138CUXMY Fiber Patch Cord is a high performance, cost effective cable for interconnection between two single mode fiber devices, like SFP modules.

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 Duplex LC Connector
- ✓ 2x Simplex E2000 Connector
- ✓ PC Polish
- ✓ High Quality Ceramic Zirconia Ferrule
- ✓ Brand-name Fiber
- ✓ Fiber 62.5/125µm OM1 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.

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
SFP3138CU0.5MK	0.5 Meter	PC
SFP3138CU1MK	1 Meter	PC
SFP3138CU2MK	2 Meter	PC
SFP3138CU3MK	3 Meter	PC
SFP3138CU5MK	5 Meter	PC
SFP3138CU7.5MK	7.5 Meter	PC
SFP3138CU10MK	10 Meter	PC
SFP3138CU15MK	15 Meter	PC
SFP3138CU20MK	20 Meter	PC
SFP3138CU30MK	30 Meter	PC
SFP3138CU50MK	50 Meter	PC

## 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 Geometrical Parameter

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

### 2. LC/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

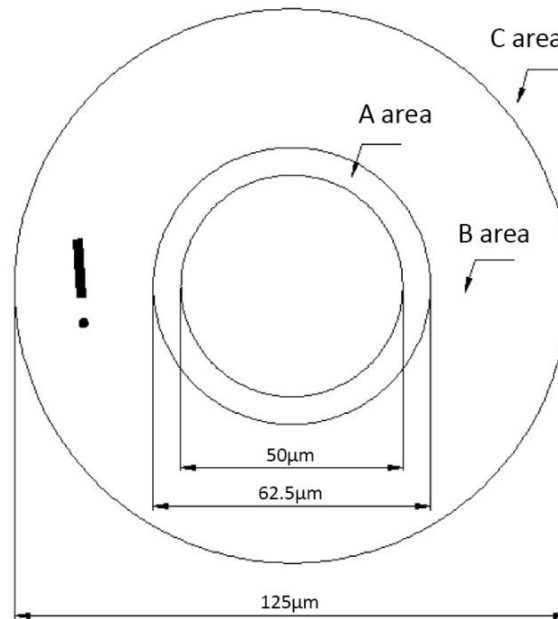
### 3. Mechanical Specifications

Parameter	Standard
Maximum Tensile Load (N)	200
Minimum Bend Radius(mm)	30
Temperature (°C)	Storage
	Installation
	Operating
	-5 to +65

### 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	Draying (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 (0~62,5µm):	Area B (62,5~125µm):	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 <math>\leq 2\mu\text{m}</math>, no limit of length, Acceptable Quantity <math>\leq 3</math></li> <li>- No black scratches</li> <li>- Chips /black dot diameter <math>\leq 2\mu\text{m}</math>, Acceptable Quantity <math>\leq 3</math></li> <li>- No cleanable dust</li> </ul>	<ul style="list-style-type: none"> <li>- White slight scratch width <math>\leq 2\mu\text{m}</math>, no limit of length, Acceptable Quantity <math>\leq 5</math></li> <li>- No black scratch</li> <li>- Chips /black dot diameter <math>\leq 5\mu\text{m}</math>, Acceptable Quantity <math>\leq 5</math></li> <li>- No cleanable dust</li> <li>- No flaw for ceramic ferrule</li> </ul>

**6. Revision History**

Revision	Initiated	Review	Approved	History	Release Date
V 1.0	Michael	Olaf	Christian	Released	01 / 2015

**7. Further Information**

For further information, please contact [info@cbo-it.de](mailto:info@cbo-it.de) or [www.cbo-it.de](http://www.cbo-it.de)