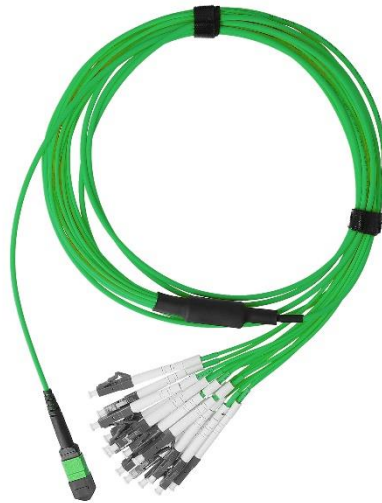


MPO to 16x LC Duplex Breakout Cable for BlueOptics© QSFP-DD



Description

The BlueOptics© SFP5541XUKX MPO Breakout Cable is a high density, high performance, cost effective cable solution to connect BlueOptics© QSFP-DD Modules with other Transceivers.

All BlueOptics© MPO Breakout Cable come with high return loss and low insertion loss.

BlueOptics© high density MPO Breakout Cables can combine up to 144 Cores in only one Cable.

BlueOptics© MPO Cables are available in many different variants to fit your needs:

- Multi Mode or Single Mode
- Up to 144x Cores in one Cable
- MPO or MTP Connector
- LC, SC and ST Connector
- Breakout
- Trunk

Features

- ✓ 1x MPO Connector with 16 Cores
- ✓ 8x LC Duplex Connector
- ✓ For QSFP-DD Usage
- ✓ PC or APC Polish
- ✓ High Quality Ceramic Zirconia Ferrule
- ✓ Brand-name Fiber
- ✓ Multi mode or Single mode
- ✓ Insertion Loss: $\leq 0.4\text{dB}$
- ✓ Nissin Kasei MPO Components
- ✓ Highest Connector Quality: Up 1500 mating cycles
- ✓ Interferometer tested
- ✓ Single Packed
- ✓ Test Report

Applications

- ✓ Data Center
- ✓ Modular Networks
- ✓ Fiber Networks

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© MPO Breakout Cable 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

Remove the dust caps of the MPO Connector.

Remove the dust caps of the LC Connectors.

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

Connect the MPO Connector to BlueOptics© QSFP-DD Module.

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 accurate.

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/UPC Mechanical Specifications

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

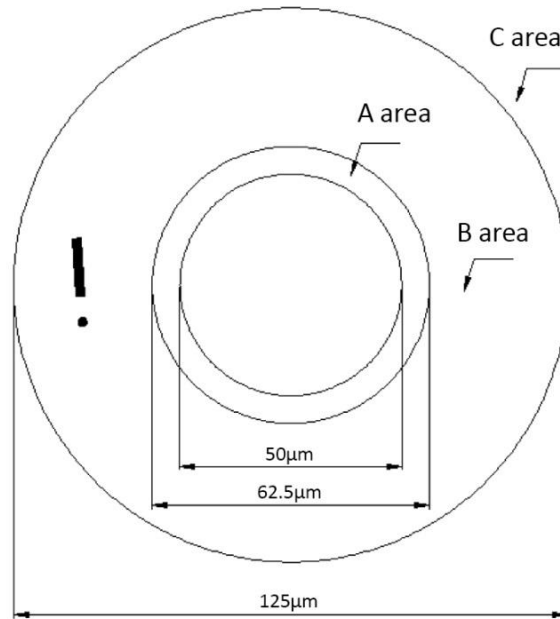
3. MPO/PC Geometrical Parameter

Parameter	Standard	
	Minimum	Maximum
Insertion Loss (dB)	0.4	0.7
Apex offset (um)	0	50
Fiber Height(nm)	-0.02*R3 +1.3R2 -31R+325	100

4. Reliability Performance

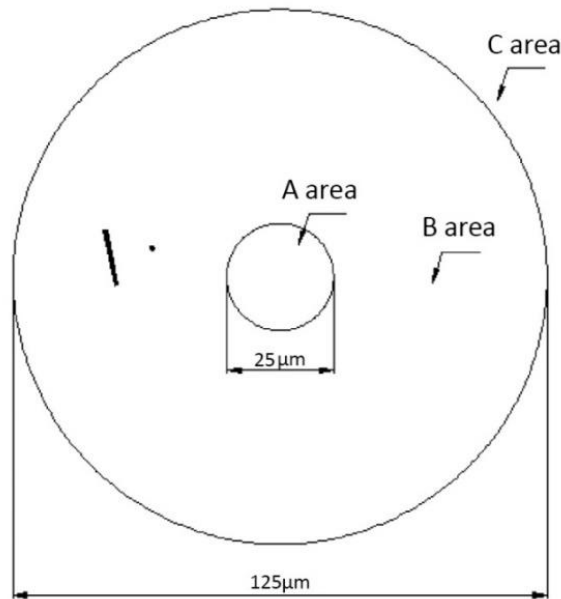
Item	Content	Standard Clause	Conclusion
1	New Device Performance	GR-326-Core 4.4.1	OK
2	High Temperature Aging	GR-326-Core 4.4.2.1	OK
3	Temperature Cycle	GR-326-Core 4.4.2.2	OK
4	Damp-heat Aging	GR-326-Core 4.4.2.3	OK
5	Damp & Hot/ Condensation Cycle	GR-326-Core 4.4.2.4	OK
6	Draying (Not test Item)	GR-326-Core 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 – Multi Mode



Area A (0~50µm):	Area B (50~125µm):	Area C (125~250µm):
<ul style="list-style-type: none"> - No any scratch, chips / black dot - No cleanable dust 	<ul style="list-style-type: none"> - White slight scratch width $\leq 2\mu\text{m}$, no limit of length, Acceptable Quantity ≤ 3 - No black scratches - Chips /black dot diameter $\leq 2\mu\text{m}$, Acceptable Quantity ≤ 3 - No cleanable dust 	<ul style="list-style-type: none"> - White slight scratch width $\leq 2\mu\text{m}$, no limit of length, Acceptable Quantity ≤ 5 - No black scratch - Chips /black dot diameter $\leq 5\mu\text{m}$, Acceptable Quantity ≤ 5 - No cleanable dust - No flaw for ceramic ferrule

6. Quality assurance – Single Mode



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