DATA SHEET

Polarity Switchable Uniboot LC-LC Duplex with Push-Pull Tab patch cable V1

Designed for high-density fiber patching in data centers, LAN, WAN etc. which need space saving.







Omc (first Polarity Switchable Uni-boot LC-LC Duplex with Push/Pull Tab patch cable V1

Description

The Polarity Switchable uniboot LC connector With Push/Pull Tab is a Chinese independent intellectual property rights connector. It has a unique design that allows to switch polarity without using any tooling. The Push/Pull Tab is very easy to grab to Insert and pull out from LC adapter. One more Great design is that the tap can be removed after insertion. Makes the installation Job become easy and high efficient.

The Uni-boot LC patch cable utilizes a special "round duplex" cable that allows duplex transmission within a single 2mm cable ,cable materials including LSZH, Plenum and Riser.

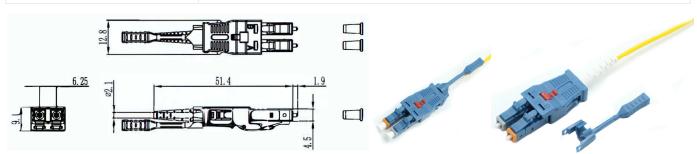
Our Polarity Switchable uniboot LC fiber patch cable reduces cable management space by up to 68% compared to standard patch cables. It reduces cable management space comparing to standard patch cables. As a result of these features our uniboot patch cable offers improved airflow and visibility of equipment within a high density network environment.

OMC's LC Uniboot cable assemblies offer the best solution for high-density applications, data centers, interconnect and cross connector, private networks and premise installations.

Products Materials



Polarity Switchable uniboot LC connector with **Chinese independent intellectual property rights.** Meet and Compatible with many International Standard LC: TIA/EIA, FOCIS10, GR-326 EIA/TIA-604-10, IEC61754-20 and JIS C5973.





Perfect match with Standard LC ferrule, No need to develop special LC ferrule flange, Save cost

High quality SM Ceramic ferrule, Good concentricity<0.5um High quality MM Ceramic ferrule, Good concentricity<4.0um



G652D,G657A1,G657A2/B2,G657B3,OM1,OM2, OM3, OM4, OM5 Fibers 1.6-2.0mm OD cable:

PVC (Riser/OFNR), LSZH, Plenum (OFNP) Jacket materials

Standard Compliance

- TIA 604 (FOCIS)
- TIA/EIA 492AAAE
- IEC 61754
- IEC 60793-2-10
- IEC61300-3-35
- YD/T1272.1-2003
- RoHS, ISO9001 Compliant

Features

- High quality zirconia ferrules.
- Good repeatability and interchange.
- Flame-retardant, rugged and durable jacket.
- 100% optically tested for insertion loss to ensure high quality

Application

- Data Center
- Enterprise
- Fiber to the X (FTTX)
- LAN and WAN
- CATV Network
- Telecommunications Network



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Optical specification:

Fiber Connector	Push/Pull Tab Uniboot to LC Push/Pull Tab LC Uniboot	Fiber Type	SM:Yellow/Blue/White; OM1&OM2: Orange; OM3:Aqua; OM4:Aqua/Violet/ Magenta
Cable OD&Jacket	1.6mm/1.7mm,/1.8mm/2.0 mm PVC/LSZH	Fiber Counts	2 Fibers
Insertion Loss	≤0.3dB(IEC Grade C) ≤0.12dB(IEC Grade B)	Return Loss	SM UPC ≥ 50dB(min) SM APC ≥ 60dB(min) MM PC ≥ 35dB(min)
Pull-out Force	100N	Durability	500 Cycles
AB Polarity Switchable	Available	Operating Temperature	-40 to + 85°C

Geometric Specification(if Customer requested)

Items		Parameter		
Polishing		PC	APC	
ROC	ROC LC		5 ~ 12	
Apex Offset		≤ 50		
Fiber Spherical	Height	±100		
Angle		± 0.5 8 ± 0.5		

Polishing Method





End-face Quality (SM)

Zone	Range (µm)	Scratches	Defects	Reference
A: Core	0 to 25	None	None	
B: Cladding	25 to 115	None	None	150.04000.0
C: Adhesive	115 to 135	None	None	IEC 61300-3
D: Contact	135 to 250		None	-35:2015
E: Rest of ferrule		None	None	





SM APC

End-face Quality (MM)

Zone	Range (µm)	Scratches	Defects	Reference
A: Core	0 to 65	None	None	
B: Cladding	65 to 115	None	None	.==
C: Adhesive	115 to 135	None	None	IEC 61300-3
D: Contact	ntact 135 to 250		None	-35:2015
E: Rest of ferrule	None	None		



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Length Tolerance

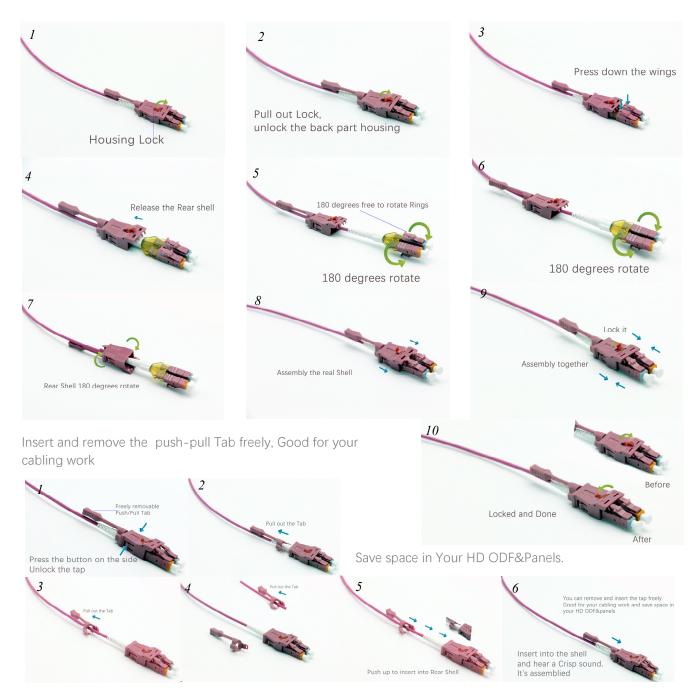


Overall Length(L)(m)	length of tolerance(cm)
0 <l<1< td=""><td>+5/-0</td></l<1<>	+5/-0
1 <l<10< td=""><td>+10/-0</td></l<10<>	+10/-0
10 <l<40< td=""><td>+15/-0</td></l<40<>	+15/-0
40 <l< td=""><td>+0.5% × L/-0</td></l<>	+0.5% × L/-0

Product Highlights

Switchable + Uniboot LC Push-Pull tab patch Cable

The duplex LC connector for 2.0mm round cable, which allows the polarity to be switched from A-B to A-A





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Packaging

This easily taken and well-protected fiber patch cable package has been labelled and marked by OMC as default .Standard carton size: 34*22*15 cm; 44*34*24 cm; 54*39*34 cm. Which carton to be used depends on goods Qty. Packing can be customized.









1,Self-seal PE Bag

2 Bubble Bag

3, Paper Carton

4,fumig-free Pallet

OME service

- 1. Cable color, printing word, material of cable jacket, connector's color
- 2. OEM Label, Identify ring, cable's label, box, shipping marks
- 3. Different quality Level.

How to Choose The Right Fiber Optic Cable Type?

Designation	Fiber Dia. (µm)	Туре	Fast Ethernet 100BASE-FX	1 Gigabit Ethernet 1000BASE-SX	1 Gigabit Ethernet 1000BASE-LX	10Gbps Ethernet 10GBASE	40Gbps Ethernet 40GBASE SR4	100Gbps Ethernet 100GBASE SR4
OM1	62.5/125	Multi- mode	2000 Meters	275 Meters	550 Meters	33 Meters	Not sup-	Not sup-
OM2	50/125	Multi- mode	2000 Meters	550 Meters	550 Meters	82 Meters	Not sup-	Not sup-
OM3(Laser Optimized)	50/125	Multi- mode	2000 Meters	550 Meters	550 Meters	300 Meters	100 Meters (SR4)	100 Meters (SR4)
OM4(Laser Optimized)	50/125	Multi- mode	2000 Meters	550 Meters	550 Meters	400 Meters	150 Meters (SR4)	150 Meters (SR4)
Singlemode	9/125	Single-	2000 Meters	5km at	5km at	10km at	N/A	N/A

PS:The difference of OM4 and OM3 fiber mode as the following

- 1. OM4 was developed specifically for VSCEL laser transmission and allows 10 Gig / second link distances of up to 550 Meters (compared to 300M with OM3).
- 2. The effective modal bandwidth for OM4 is more than double that of OM3.
- 3. For OM4 patch cable it is 4700 MHz.km while for OM3 it is 2000 MHz.km.



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Transmission Distance Comparison

Data Rate	Interface Type	Fiber Mode	Wavelength	Maximum Distance
		OM5	850nm	550m
		OM4	1300nm	550m
	1000BASE-LX	OM3	1300nm	550m
4.0		OM2	1300nm	550m
1G		OM1	1300nm	550m
		SMF	1310nm	10km
		OM4	850nm	550m
	1000BASE-SX	OM3	850nm	550m
		OM2	850nm	550m
		OM1	850nm	275m
		OM4	850nm	400m
	10GBASE-SR	OM3	850nm	300m
		OM2	850nm	82m
		OM1	850nm	33m
10G		OM5	850nm	220m
	10GBASE-LRM	OM3	1300nm	220m
		OM2	1300nm	220m
		OM1	1300nm	220m
	10GBASE-LR	SMF	1310nm	10km
	10GBASE-ER	SMF	1550nm	30-40km
	10GBASE-ZR	SMF	1550nm	80-100km
	40G-BIDI	OM5	850nm	200m
	400-6101	OM4	850nm	150m
		OM3	850nm	100m
40G	40GBASE-SR4	OM5	850nm	150m
	40GDA3L-3R4	OM4	850nm	150m
		OM3	850nm	100m
	40G-SWDM4	OM5	850nm	440m
	700 30001014	OM4	850nm	350m
		OM3	850nm	240m
	40GBASE-LR4	SMF	1310nm	10km



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Transmission Distance Comparison

Data Rate	Interface Type	Fiber Mode	Wavelength	Maximum Distance
	100000405 004	OM5	850nm	100m
	100GBASE-SR4	OM4	850nm	100m
		OM3	850nm	70m
100G	1000 CWDM4	OM5	850nm	150m
	100G-SWDM4	OM4	850nm	100m
		OM3	850nm	75m
	100000000000000000000000000000000000000	OM4	850nm	125m
	100GBASE-SR10	OM3	850nm	100m
	100GBASE-LR4	SMF	1310nm	10km
	100GBASE-ER4	SMF	1310nm	40km

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Order Instruction

Patch cord	- Quality level	- Fiber Mode	- Connector A	- Connector B	- Cable Size	- Out jacket	- Cable color	- Length
А	R1-Standard Quality,	1-G652D	A-Uniboot LC UPC V1 Connector	A-Uniboot LC UPC V1 Connector	0- 1.7/18mm	H-LSZH	A - Blue	1=1m
	No Geometric request	2-G657A1	B-Uniboot LCUPC V2 Connector	B-Uniboot LCUPC V2 Connector	1- 2.0mm	C-PVC	B- Or- ange	2=2m
		3-G657A2/B2	C-Polarity Switchable Uniboot LC UPC Push- Pull Tab Connector V1	C-Polarity Switchable Uniboot LC UPC Push-Pull Tab Connector V1	2- 3.0mm	R-OFNR	C- Green	
	R2-Standard Qual- ity,,Geometric passed request	4-G657B3	D-Uniboot LC UPC Pull Tab Connector V1	D-Uniboot LC UPC Pull Tab Connect- or V1	3 - 3.5mm	P-OFNP	D- Brown	
		5-BIF OM1	E-Polarity Switchable Uniboot LC UPC Pull Tab Connector V2	E-Polarity Switcha- ble Uniboot LC UPC Pull Tab Connector V2			E– Grey	
	R3 -IEC Grade B Quality No Geo- metric request	6-BIF OM2	F-Polarity Switchable uniboot LC UPC with flat Clip Connector	F-Polairty Switcha- ble uniboot LC UPC with flat Clip Connector			F-White	
		7-BIF OM3	1-Uniboot LC APC V1 Connector	1-Uniboot LC APC V1 Connector			G-Red	
		8-BIF OM4	2-Uniboot LCAPC V2 Connector	2-Uniboot LCAPC V2 Connector			H-Black	
	R4 -IEC Grade B,Geometric passed request	9-BIF OM5	3-Uniboot LC APC Push-Pull Tab Con- nector V1	3-Uniboot LC APC Push-Pull Tab Connector V1			I-Yellow	
		1-Coring G652D	4-Polarity Switchable Uniboot LC APC Pull Tab Connector V1	4-Polarity Switcha- ble Uniboot LC APC Pull Tab Connector V1			J-Purple	
		2-Coring G657A1	5-Polarity Switchable Uniboot LC APC Pull Tab Connector V2	5-Polarity Switcha- ble Uniboot LC APC Pull Tab Connector V2			K-Pink	
		3- Coring G657A2/B2	6-Polairty Switchable uniboot LC APC with flat Clip Connector	6-Polairty Switcha- ble uniboot LC APC with flat Clip Connector			L-Aqua	
		4-Coring G657B3					M- Magenta	
		5-Coring OM1						
		6-Coring OM2						
		7-Coring OM3						
		8-Coring OM4						
		9-Coring OM5						