

# PRODUCT SPECIFICATION

## OPTICAL FIBER CABLE ASSEMBLY

### INTRODUCTION

LUX's high performance fiber patch cord offers interconnect and cross-connect over installations in entrance facilities, telecommunications rooms, data centers and at the desk. Patch cords support network applications in main, horizontal and equipment distribution areas with low smoke zero halogen (LSZH) rated jacket materials.

Pre-terminated fiber optic patch cords are available in OS1/OS2, OM1, OM2, OM3, OM4 & OM5, fiber types to meet the demands of Gigabit Ethernet, 10 Gigabit Ethernet and high-speed Fiber Channel.



### CONSTRUCTION

<b>Fiber count</b>	Simplex (1-fiber) & Duplex (2-fibers)	
<b>Cable Jacket ratings</b>	Low Smoke Zero Halogen (LSZH) per: IEC 60332-1-2, IEC 60332-3-24, IEC60754-1, IEC 60754-2, IEC 61034-2	
<b>Fiber type</b>	Singlemode:	OS1/OS2 9/125µm
	Multimode:	OM1 62.5/125µm
		OM2 50/125µm
		OM3 50/125µm
		OM4 50/125µm
		OM5 50/125µm
<b>Connector Type:</b>	E2000, FC, LC, SC, ST	
<b>Jacket Color</b>	OS1/OS2:	Yellow
	OM1:	Orange
	OM2:	Orange
	OM3:	Aqua
	OM4:	Aqua/Violet
	OM5:	Lime Green

### OPTICAL PROPERTIES

<b>Connector Insertion loss:</b>	Typical: 0.2dB (SM) & 0.1dB (MM) Max: 0.3dB (SM) & 0.2dB (MM)
<b>Connector return loss:</b>	20dB min. (OM1/OM2) 26dB min. (OM3/OM4/OM5) 50dB min. (OS1/OS2) 60dB min. (OS1/OS2 APC)

### PHYSICAL PROPERTIES

<b>Cable diameter (OD):</b>	1.8/2.0/2.8/3.0 (mm)
<b>Connector cable retention:</b>	50N @ 0°C 19.4N @ 90°C
<b>Connector durability:</b>	500 cycles
<b>Bend radius, minimum (long term):</b>	IEC 60794-2-10

### ENVIRONMENTAL PROPERTIES

<b>Storage and shipment temperature:</b>	-25°C to 70°C
<b>Operating and Installation temperature:</b>	-20°C to 60°C

### STANDARDS

	Meets or exceeds ISO/IEC 11801, TIA/EIA-568-D.3, TIA-604-3 (FOCIS-3), TIA-604-10 (FOCIS-10)
<b>Restriction of Hazardous Substances (RoHS) Compliance:</b>	All patch cord components meet the requirements of Directive 2002/95/EC.

The information and specification in this document are subjected to change without notice





# COMMUNICATIONS

Let's Get Connected

## ORDERING PART NUMBER

Example: M3DLCPLCP003-XL = LC – LC OM3 Duplex Patch cord 3m (Standard Boot, 2.0mm cable)

Character	A	B	C	D	E	F	G	H	I	J	K	L	-	M	N
Example	S	M	S	F	C	U	F	C	U	0	0	1	-	X	L

### AB – FIBER TYPE

SM = Singlemode (9/125µm)  
M1 = OM1 (62.5/125µm)  
M2 = OM2 (50/125µm)  
M3 = OM3 (50/125µm)  
M4 = OM4 (50/125µm)  
M5 = OM5 (50/125µm)

### C – Fibre Structure

S = Simplex  
D = Duplex

### DE – CONNECTOR TYPE

E2 = E2000  
FC = FC  
LC = LC  
LU = LC Uniboot (Switchable)  
SC = SC  
ST = ST

### F – POLISH TYPE

A = APC  
P = PC  
U = UPC

### GH – CONNECTOR TYPE

E2 = E2000  
FC = FC  
LC = LC  
LU = LC Uniboot (Switchable)  
SC = SC  
ST = ST

### I – POLISH TYPE

A = APC  
P = PC  
U = UPC

### JKL – LENGTH (M)

001 = 1 METER  
002 = 2 METER  
003 = 3 METER  
005 = 5 METER  
010 = 10 METER  
015 = 15 METER  
020 = 20 METER  
025 = 25 METER

### M – BOOT TYPE

X = N/A (Standard)  
F = FLEXIBOOT  
S = SHORT BOOT  
P = PULL TAB (LC Only)  
H = PUSH & PULL TAB (LC Only)  
U = Uniboot (LC Only)

### N – CABLE O.D

K = 1.8mm  
L = 2.0mm  
M = 2.8mm  
N = 3.0mm



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