

# PRODUCT SPECIFICATION

## MPO TRUNK CABLE

### INTRODUCTION

LUX's MPO Trunk Cable is designed for data center solutions supporting topologies such as 10/40/100 Gigabit Ethernet, Fiber channel or InfiniBand. It supports Base-8 / Base-12 for SR4 & Based-24 for SR10 Transceivers.

MPO Trunk Cable is for making interconnections between transceiver with MPO/MTP Interface. Fiber count option is available from 8-fiber to 144-fiber with various type of connectors.



### CONSTRUCTION

<b>Fiber count</b>	From 8 to 144 fibers	
<b>Cable Jacket ratings:</b>	Low Smoke Zero Halogen (LSZH) per: IEC 60332-1-2, IEC 60332-3-24, IEC 60754-1, IEC 60754-2, IEC 61034-2	
<b>Fiber type</b>	Singlemode:	SM (9/125μm)
	Multimode:	OM3 (50/125μm) OM4 (50/125μm) OM5 (50/125μm)
<b>A Connector Type</b>	12F MTP/MPO (Standard / Low Loss) 24F MTP/MPO (Standard / Low Loss)	
<b>Jacket Color</b>	SM:	Yellow
	OM3:	Aqua
	OM4:	Aqua/ Violet
	OM5:	Lime Green
<b>B Connector Type</b>	12F MTP/MPO (Standard / Low Loss) 24F MTP/MPO (Standard / Low Loss)	

### OPTICAL PROPERTIES

<b>Connector Insertion loss</b>	Standard: 0.75dB max. (SM MTP/MPO) Standard: 0.60dB max. (MM MTP/MPO) Low Loss: 0.35dB max. (SM&MM MTP/MPO)	
<b>Connector return loss</b>	30dB min. (OM3, OM4 & OM5) 60dB min. (SM APC)	

### PHYSICAL PROPERTIES

<b>Breakout diameter (OD)</b>	2mm Simplex / Duplex 3mm Simplex / Duplex
<b>Bend radius minimum</b>	2mm: 40mm 3mm: 60mm
<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>	2mm: 40mm 3mm: 60mm

### ENVIRONMENTAL PROPERTIES

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

### REFERENCE STANDARDS

IEC 61754-4, 20, IEC 61754-7, IEC 61300-3-35 & EN 50377-15-1

<b>Restriction of Hazardous Substances (RoHS) Compliance</b>	All patch cord components meet the requirements of Directive 2002/95/EC.
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# COMMUNICATIONS

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## ORDERING PART NUMBER

Example: MTC-48M3MFMFLAE090 = 4 x 12F MPO Female – 4 x 12F MPO Female Low Loss Type A 90m (Breakout length: 0.5m)

Character	M	T	C	-	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
Example	M	T	C	-	4	8	M	3	M	F	M	F	L	L	A	E	0	9	0

### AB – FIBER COUNT

08 = 8 Fibers  
12 = 12Fibers  
24 = 24 Fibers  
36 = 36 Fibers  
48 = 40 Fibers  
60 = 60 Fibers  
72 = 72 Fibers  
96 = 96 Fibers  
H4 = 144 Fibers

### CD – FIBER TYPE

M3 = OM3 50/125µm  
M4 = OM4 50/125µm  
M5 = OM5 50/125µm  
SM = OS1/OS2 9/125µm

### EF – CONNECTOR TYPE (A END)

MM = 12F MTP Male  
MF = 12F MTP Female  
TM = 24F MTP Male  
TF = 24F MTP Female

### GH – CONNECTOR TYPE (B TYPE)

MM = 12F MTP Male  
MF = 12F MTP Female  
TM = 24F MTP Male  
TF = 24F MTP Female

### I J– OPTICAL PERFORMANCE

SD = Standard  
LL = Low Loss

### K - POLARITY

A = Type A  
(key up – key down)  
B = Type B (key up – key up)  
C = Type C  
(pairwise flipped,  
key up – key down)

### M – BREAKOUT LENGTH

E = Equal Length (0.5m)  
S = Staggered length (0.5m +  
80mm stag/2 connectors)

### MNO – OVERALL LENGTH

005 = 5 meters  
010 = 10 meters  
015 = 15 meters  
020 = 20 meters  
025 = 25 meters  
030 = 30 meters

\*length not listed is available as  
customized length\*



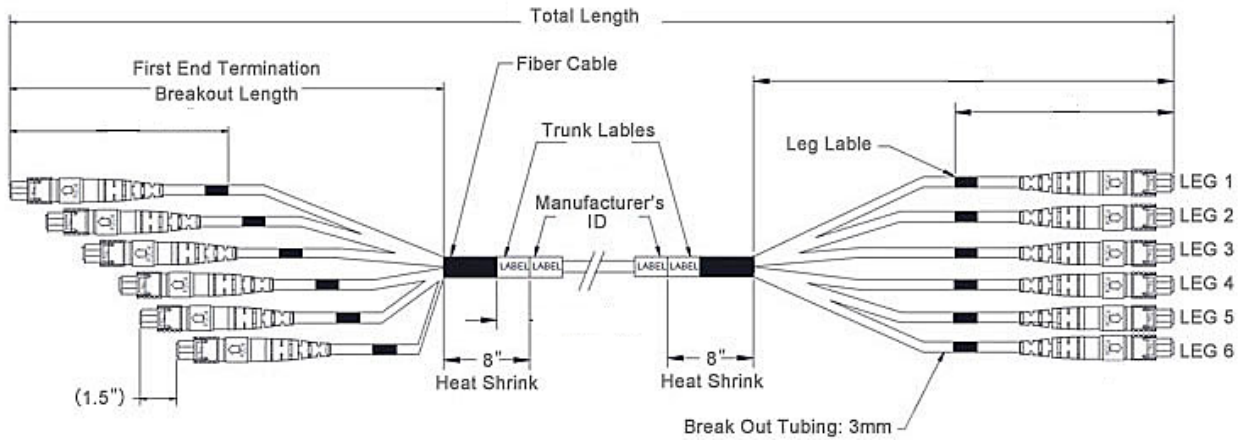
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\*Below diagram is for illustration only\*



## Notes

- (1) MPO Trunk Cable is available up to 144 fiber, for higher density MPO Trunk, please contact our sales team for details
- (2) Polarity option: Type A / Type B / Type C. Customized polarity is available upon request. Please contact our sales for more details
- (3) Cable length denotes the overall length from end to end
- (4) APC is available for Singlemode, PC for Multimode

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