LUX COMMUNICATIONS
Let's Get Connected

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

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

OPTICAL PROPERTIES

Connector Insertion loss	Standard: 0.75dB max. (SM MTP/MPO) Standard: 0.60dB max. (MM MTP/MPO) Low Loss: 0.35dB max. (SM&MM MTP/MPO) LC/SC: 0.3dB max. (Standard & Low Loss)
Connector return loss	30dB min. (OM3, OM4 & OM5) 60dB min. (SM APC)

PHYSICAL PROPERTIES

Breakout diameter (OD)	2mm Simplex / Duplex 3mm Simplex / Duplex
Bend radius minimum	2mm: 40mm 3mm: 60mm
Connector cable retention	50N @ 0°C 19.4N @ 90°C
Connector durability	500 cycles
Bend radius, minimum (long term)	2mm: 40mm 3mm: 60mm

ENVIRONMENTAL PROPERTIES

Storage and shipment temperature:	- 20°C to 70°C
Operating and Installation temperature:	- 20°C to 70°C

REFERENCE STANDARDS

IEC 61754-4. 20, IEC 61754-7, IEC 61300-3-35 & EN 50377-15-1	
Restriction of Hazardous Substances (RoHS) Compliance	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

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ORDERING PART NUMBER

Example: MTC–48M3MFMFLLAE090 = 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
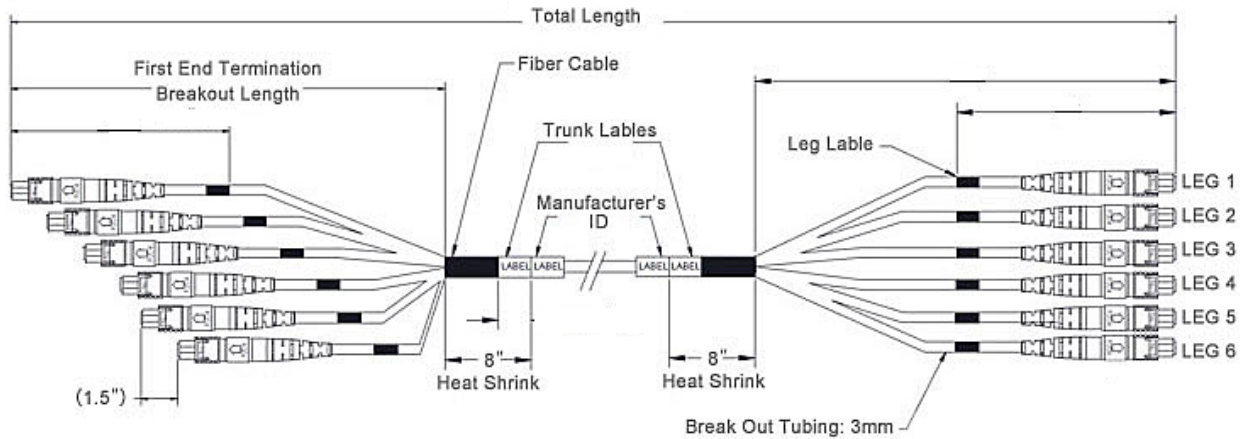
SD = Standard
LL = Low Loss

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

Total Length

First End Termination
Breakout Length

Fiber Cable

Trunk Lables

Manufacturer's ID

Leg Lable

LEG 1
LEG 2
LEG 3
LEG 4
LEG 5
LEG 6

(1.5")

LABEL LABEL   LABEL LABEL

8"   8"

Heat Shrink   Heat Shrink

Break Out Tubing: 3mm

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