

PRODUCT SPECIFICATION

MPO HYBRID BREAKOUT CABLE

INTRODUCTION

LUX's MPO hybrid Breakout Cable is designed for data center solutions supporting topologies such as 10/40 Gigabit Ethernet, Fiber channel or InfiniBand. It supports Base12 or Base 8 for SR4 (QSFP+/QSFP28) Transceivers.

MPO Breakout 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. Customized wire map configuration is also available upon request.



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	LC & SC	

OPTICAL PROPERTIES

Connector Insertion loss	Standard: 0.75dB max. (SM MTP/MPO) Standard: 0.6dB max. (MM MTP/MPO) Low Loss: 0.35dB max. (SM&MM MTP/MPO)
	LC/SC: 0.25/0.15dB max. (SM&MM)
Connector return loss	25dB min. (OM3/OM4/OM5 PC) 50dB min. (SM UPC) 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:	- 25°C to 70°C
Operating and Installation temperature:	- 20°C to 60°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
--	--

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



COMMUNICATIONS

Let's Get Connected

ORDERING PART NUMBER

Example: MBC-12M3MMLL2LDE010 = 12F OM3 MPO Male Low Loss – LC Duplex 2.0mm 10m (Breakout length: 0.5m)

Character	M	B	C	-	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
Example	M	B	C	-	1	2	M	3	M	M	L	L	2	L	D	E	0	1	0

AB – FIBER COUNT

08 = 8 Fibers
12 = 12 Fibers
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 – OPTICAL PERFORMANCE

SD = Standard
LL = Low Loss

I – BREAKOUT OD

2 = 2.0mm
3 = 3.0mm

JK - CONNECTOR TYPE (B END)

LC = LC Simplex
LD = LC Duplex
LP = LC Duplex (Push & Pull)
LU = LC Uniboot (Switchable)
SC = SC Simplex
SD = SC Duplex

L – BREAKOUT LENGTH

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

MNO – OVERALL LENGTH

005 = 5 meters
010 = 10 meters
015 = 15 meters
020 = 20 meters
300 = 300 meters



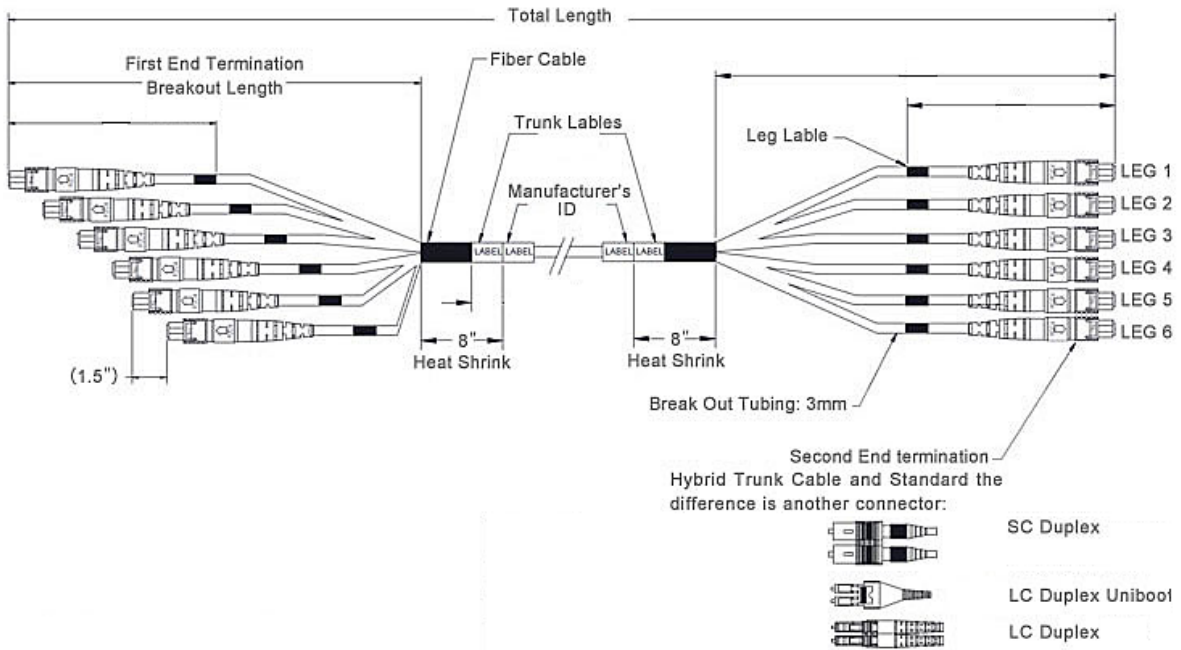
The information and specification in this document are subjected to change without notice



COMMUNICATIONS

Let's Get Connected

Below diagram is for illustration only



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

