



# MPO to LC Breakout Cable



## Applications

- Data Centre Infrastructure
- Storage Area Network – Fiber Channel
- Parallel Optics
- 10Gbps, 25Gbps and emerging 40Gbps, 100Gbps Protocol

## Features

- 0.35dB for all MM, SM Low Loss 0.35dB & Standard Loss 0.60dB
- 100% Interferometer Test
- IEC 61754-7 and TIA/EIA 604-5 Compliant for MPO interfaces

## Standard Compliance

- EIA/TIA-455-21A
- TIA 604-5 (FOCIS 5)
- Telcordia GR-326-CORE
- IEC61754-7

MPO to 4 duplex LC breakout cable fan out a single 40Gbps connection from a 40GBase-SR4 QSFP+ optical transceiver module to four 10Gbps LC SFP+ optical transceiver modules, while 12 fiber type is used in 10G networks. The MPO to LC breakout cable is also an economical solution for a smaller network environment in which you don't need complicated equipment, because the MPO cable allows redistribution of various fibers into one round cable for short distance transmission, it offers 12, 24 and up to 144 fibers for these applications. To protect the cable in the harsh environment, armored cable is available.

OM3 & OM4 types MPO-LC breakout cable are very popular in markets. You might see both aqua and magenta colors are used for OM4 cable, it's just choice by different markets. MPO breakout cable offers up to 144 fibers, but most common versions are 12 and 24.

## Optical Properties

Fiber Mode	Single Mode	Multi Mode
Attenuation (dB/km)	$\leq 0.32$ at 1310nm, $\leq 0.18$ at 1550nm	$\leq 2.3$ at 850nm, $\leq 0.6$ at 1300nm
Insertion Loss (dB)	Elite: $\leq 0.35$ , Standard: $\leq 0.75$	Elite: $\leq 0.35$ , Standard: $\leq 0.6$
Return Loss (dB)	UPC: $\geq 50$	UPC: $\geq 20$
Connector Type	LC	
Fiber Mode	Single Mode	Multi Mode
Insertion Loss (dB)	UPC: $\leq 0.25$	UPC: $\leq 0.25$
Return Loss (dB)	UPC: $\geq 50$	UPC: $\geq 30$

Specifications

Fiber Mode	Single Mode: OS2 9/125µm Multimode: OM4, OM3, OM2 50/125µm, OM1 62.5/125µm	
Connector A	MPO Female, Male	
Connector B	LC	
Polish Type	Single Mode: UPC    Muliti Mode: UPC	
Cable Jacket	LSZH, PVC	
Cable Type	Round, Ribbon	
Cable Diameter	3.0mm	
Breakout	0.9/2.0mm	
Breakout Length	0.5M	
Transmission Distance	OM4: 150m @40/100G, 400m @10G	OM3: 100m @40/100G, 300m @10G

Ordering Information

Example:  
SV-CORD-12MPF4LCU-SM1MD3  
Starview Breakout Fiber Optic cable, MPO-12 (female) to 4 x duplex LC/UPC (male) Singlemode 9/125um 1 meter Duplex with type 3mm

Manufacturer:	Starview	
Type:	Breakout Fiber Optic cable	
Connector type #1:	12MP: MPO-12	24MP: MPO-24
Connector type #1 :	Female, Male;	
Fiber Number #:	4;10;24	
Connector Type #2:	Female, Male;	
Polishing Grade #2:	LCU:UPC;	
Fiber Type:	SM: Singlemode	MM: Multimode
Length:	(m) 1-99 M	
Cord Type:	S: Simplex Type	D: Duplex Type
Cord Diameter:	(mm) 3;	
Fiber Mode	3: OM3	4: OM4    5: OM5

