

MPO-MPO MULTIMODE CABLE WITH PULLING EYE KIT DATASHEET

Brief Introduction

The Cables have 8x12-fibers MPO female connectors at each end. The Pulling eye kit and protective sock are at one end cable. Cable is 96-fibers breakout 8x12fibers, indoor/outdoor, LSZH OFNR riser-rated designed for high density cabling system in data center. The Pulling Eye will protect connectors while providing a pulling point with properly distributed tensions on cable assemblies. Available installed by us on your custom cable assembly. The Pulling eye kits protect MPO connectors properly when cable being towed.

Features

1. High quality ferrule and accurate alignment PIN and PIN hole.
2. Standard Loss ($IL \leq 0.7\text{dB}$) and Low loss ($IL \leq 0.35\text{dB}$) are available.
3. The Connector end-face meets the interference index.
4. Connector compliant with IEC 61754-7(Type MPO connector family).

Applications

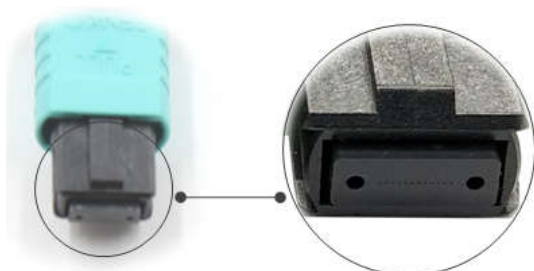
1. High density cabling data center.
2. Cabling in communication base station and distribution case.
3. QSFP module connection.
4. 40G and 100G optics system.
5. Optical fiber communication system, CATV, LANs and WANs, FTTx

Specifications

Connector A	MPO Male or Female	Connector B	MPO Male or Female
I.L. (Standard Loss)	$\leq 0.70\text{dB}(0.40\text{dB Typ.})$	Return Loss	$\geq 25\text{dB}$
I.L. (Low Loss)	$\leq 0.35\text{dB}(0.20\text{dB Typ.})$	Return Loss	$\geq 25\text{dB}$
Polish Type	PC to PC	Minimum Bend Radius	10mm
Repeatability	$\leq 0.10\text{dB}$	Interchangeability	$\leq 0.20\text{dB}$
Durability	$\leq 0.20\text{dB}$ typical change, 500 mating		
Core number	4, 6, 8, 10, 12, 24cores, customized		
Fiber Mode	OM3/OM4/OM5	Test Wavelength	850/1300nm
Attenuation at 850nm	$\leq 2.3\text{dB/km}$	Attenuation at 1300nm	$\leq 0.6\text{dB/km}$
Cable Jacket	LSZH	Cable Jacket O.D	3.0mm
Installation Tensile Load	120N	Long-Term Tensile Load	50N
Operating Temperature	-20°C to +70°C	Storage Temperature	-40°C to +85°C

Note: MTP Connector is available.

It is necessary to confirm whether MPO connector is male or female before production.



MPO Connector: Female (Without Guide Pin)



MPO Connector: Male (With Guide Pin)

According to ANSI-TIA-568-C.3-2008 specifications, there are three types about polarity: type-A, type-B and type-C, **12Core connector** show as the figure. This should be confirm before production.

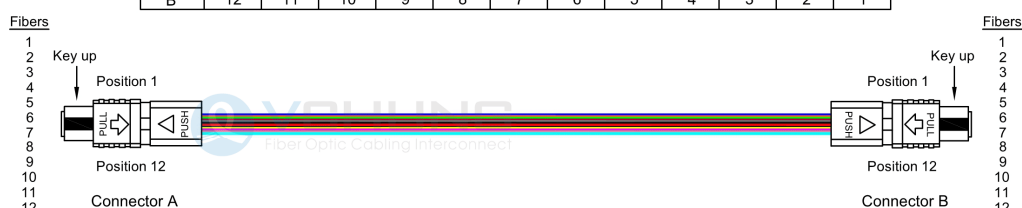
Type-A array patch cord fiber sequence

End	Fiber Sequence (Viewing the end face of the connector with key up)											
A	1	2	3	4	5	6	7	8	9	10	11	12
B	1	2	3	4	5	6	7	8	9	10	11	12



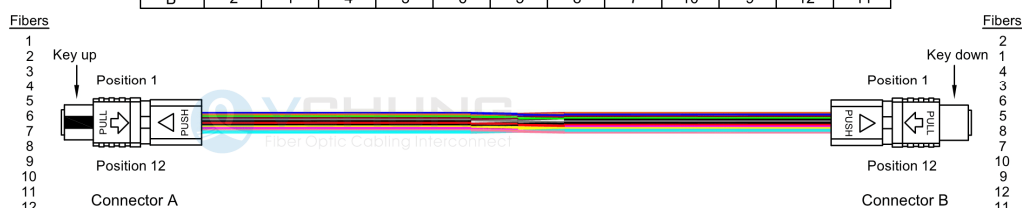
Type-B array patch cord fiber sequence

End	Fiber Sequence (Viewing the end face of the connector with key up)											
A	1	2	3	4	5	6	7	8	9	10	11	12
B	12	11	10	9	8	7	6	5	4	3	2	1

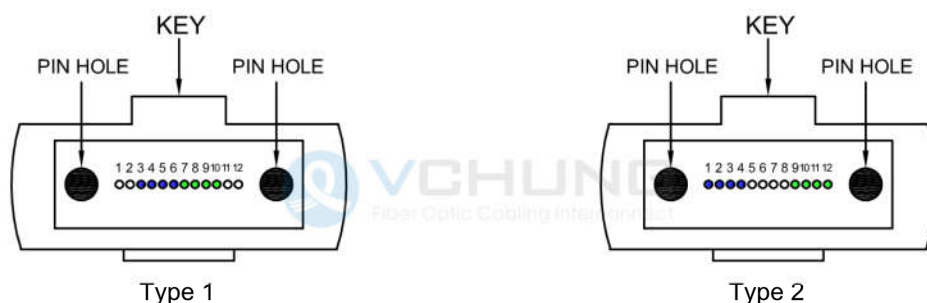


Type-C array patch cord fiber sequence

End	Fiber Sequence (Viewing the end face of the connector with key up)											
A	1	2	3	4	5	6	7	8	9	10	11	12
B	2	1	4	3	6	5	8	7	10	9	12	11



The 8 fiber cable is generally produced by 12 channels MT ferrule. So there are four channels of MT ferrule are unused, the location of the fiber and MT ferrule channels must be confirmed. Generally speaking, Type 2 is used for QSFP-40G-SR4 optic modules.



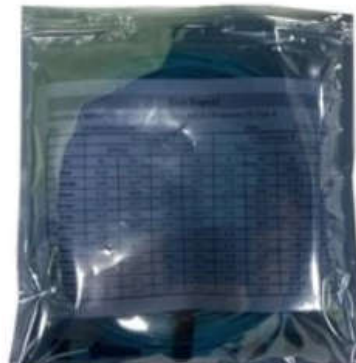
Type 1	Fiber#	1	2	3	4	5	6	7	8	9	10	11	12
	Channel#	Tx1	Tx2	Tx3	Tx4	Unused	Unused	Unused	Unused	Rx4	Rx3	Rx2	Rx1
Type 2	Fiber#	1	2	3	4	5	6	7	8	9	10	11	12
	Channel#	Unused	Unused	Tx1	Tx2	Tx3	Tx4	Rx4	Rx3	Rx2	Rx1	Unused	Unused

Our Packing

NOTE: The following images are for reference only in their packaging style.



Black Velcro Tape twine cable



Anti-static ziplock bag



Put ziplock bag neatly in cartons



Good cartons for transport

Order information

connector1	Male or Female	connector2	Male or Female	Cores	Fiber Type	Core/Cladding	Module	Cable Type	Type A,B,C	I.L. Grade	Cable Material	Color	Length
MPO	Male	MPO	Male	4	OS2	9/125	Single Mode	trunk	Type A	I.L.<0.70dB	PVC	Purple	1m(3ft)
MTP	Female	MTP	Female	6	OM5	50/125	Multimode	ribbon	Type B	I.L.<0.35dB	LSZH	Aqua	2m(7ft)
				8	OM4	62.5/125		breakout	Type C		OFNP(Plenum)	Orange	3m(10ft)
				12	OM3							Blue	4m(13ft)
				24	OM2							Yellow	5m(16ft)
				48	OM1							Lime Green	6m(20ft)
				72	G.657A2								7m(23ft)
				96	G.657A1								8m(26ft)
					G.652D								9m(30ft)
													10m(33ft)
													others