

MT-MT AOC MULTIMODE 12C DATASHEET

Brief Introduction

MPO 12cores-Ferrule Male to MPO 12-cores-Ferrule Female 8 fibers (4 fibers in each side) Pre-Terminated cable OM3 fiber 40G AOC (Active Optical Cables) patch-cords. It is a semi-finished jumper for MT-MT specially made for optical module from customer's request, which can be directly packaged in the optical module to make a complete AOC product. AOC is designed for network switch direct connection and high density data center.

Features

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

Applications

For 40G AOC (Active Optical Cables) package.

Specifications

Connector A	MPO Male or Female	Connector B	MPO Male or Female					
I.L. (Standard Loss)	≤0.70dB(0.40dB Typ.)	Return Loss	≥25dB					
I.L. (Low Loss)	≤0.35dB(0.20dB Typ.)	Return Loss	≥25dB					
Polish Type	PC to PC	Minimum Bend Radius	10mm					
Repeatability	≤0.10dB	Interchangeability	≤0.20dB					
Durability	≤0.20dB 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	≤2.3dB/km	Attenuation at 1300nm	≤0.6dB/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.

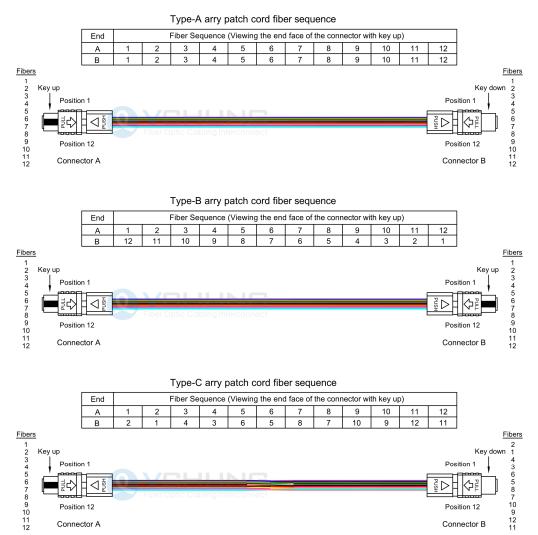






MPO Connector: Male (With Guide Pin)

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.



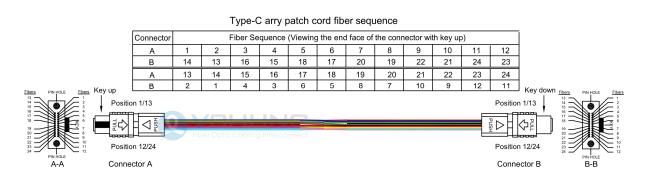
According to ANSI-TIA-568-D specifications, there are three types about polarity: type-A, type-B and



type-C, **24Core connector** show as the figure. This should be confirm before production.

Type-A arry patch cord fiber sequence Fiber Sequence (Viewing the end face of the connector with key up) Connector В Α Position 1/13 Position 1/13 Position 12/24 Connector A Connector B

Type-B arry patch cord fiber sequence Fiber Sequence (Viewing the end face of the connector with key up) Connector В Position 1/13 Position 12/24 Position 12/24 Position 1/13 Connector A Connector B





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
Type i	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

Our Packing



Black Velcro Tape twine cable



Anti-static ziplock bag



Put ziplock bag neartly 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	Туре В	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