

## 8 / 12 CORE MPO-MPO SINGLE-MODE CABLE DATASHEET

### Brief Introduction

MPO loopback, also called MPO jumper looper, is to pass both ends of a section of optical fiber into an MPO connector, and the optical path enters from several channels and exits from the other channels. The optical path is transmitted inner one connector, that is, the loop function is realized.

This MPO loopback provides an effective and simple solution for the performance test of optical modules (optical transceiver), testing the transmission capability and receiving sensitivity of network equipment, especially the data center link test. The product is a high-density compact type, including 8-core QSFP, 12-core or 24-core, SM or MM MPO male or female. The streamlined and rugged housing design provides greater stability and reliability.

### Features

1. SM or MM available ; PC(plane) or APC(8 degree) available
2. High quality ferrule and accurate alignment PIN and PIN hole.
3. Standard Insertion Loss and Low Insertion loss are available.
4. Connector compliant with IEC 61754-7(Type MPO connector family) and RoHS standard

### Applications

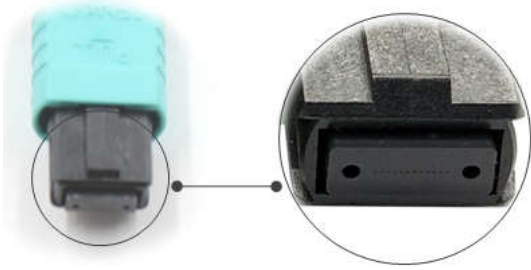
1. Aging test for MPO / MTP network component system
- 2.MPO / MTP cabling system test
3. MPO / MTP system loop test
4. MPO / MTP optical cable loop detection
5. 40G /100G QSFP optical transceiver test.

### Specifications

Connector A	MPO Male or Female	Connector cores	8/12/16/24
I.L. (Standard Loss)	≤1.20dB (0.80dB Typ.)	Return Loss	≥25dB
I.L. (Low Loss)	≤0.85dB (0.60dB Typ.)	Return Loss	≥25dB
Polish Type	PC OR APC	Minimum Bend Radius	32mm
Repeatability	≤0.10dB	Interchangeability	≤0.20dB
Durability	≤0.20dB typical change, 500 mating		
Fiber Mode	OM1/OM2/OM3/OM4/OM5	Test Wavelength	850/1300nm
Attenuation at 850nm	≤2.3dB/km	Attenuation at 1330nm	≤0.60dB/km
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.



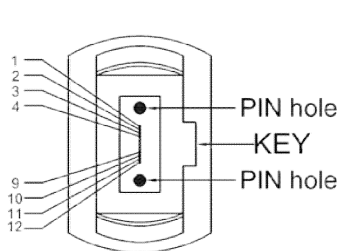
MPO Connector: Female ( Without Guide Pin )



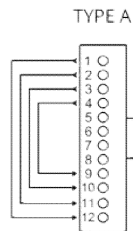
MPO Connector: Male ( With Guide Pin )

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

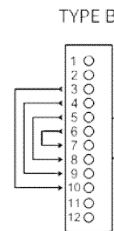
8Fiber channel:



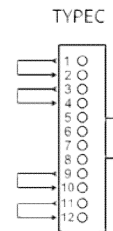
8Fiber MPO/MTP Loopback



Channel:  
1-12,2-11,3-10,4-9,  
5/6/7/8 Unused

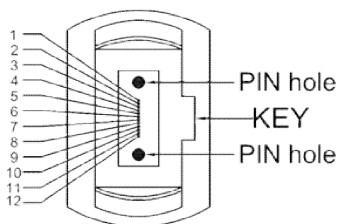


Channel:  
3-10,4-9,5-8,6-7,  
1/2/11/12 Unused

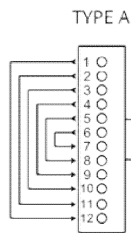


Channel:  
1-2,3-4,9-10,11-12,  
5/6/7/8 Unused

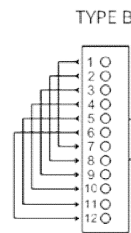
12Fiber channel:



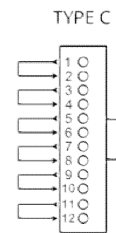
12Fiber MPO/MTP Loopback



Channel:  
1-12,2-11,3-10,4-9,5-8,6-7



Channel:  
1-7,2-8,3-9,4-10,5-11,6-12



Channel:  
1-2,3-4,5-6,7-8,9-10,11-12

Our Packing

One ziplock bag for one MPO/MTP loopback

Order information

connector	Male or Female	Cores	Fiber Type	Core/Cladding	Module	Type A,B,C	I.L. Grade	Color
MPO	Male	4	OM5	9/125	Single Mode	Type A	SL=Standard Loss	Purple
MTP	Female	6	OM4	50/125	Multimode	Type B	LL=Low Loss	Aqua
		8	OM3	62.5/125		Type C		Orange
		12	OM2					Yellow
		16	OM1					Green
		24	G.657A2					
			G.657A1					
			G.652D					

Products pictures and size:

