

MPO Series Optical Connector & Adapter

Product brief introduction

- Standard plastic body, good interchangeability
- Push-pull mechanism for quick connection and remove
- Axial locking devices for reliable connection
- Connect 12-core fiber simultaneously for high density installation
- Optical cable: ribbon optic fiber and ribbon optic cable
- Branch cable: φ0.9, φ2
- Standard: IEC61754-7, TIA/EIA-604-5-A

Applications

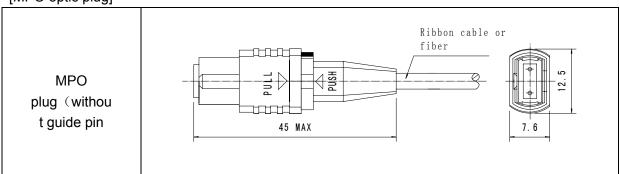
- Data and communication system
- Optical CATV, Video and Multimedia
- Parallel optical interconnect
- Optic-Electric module connection

Performances

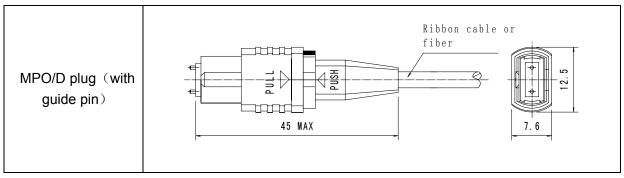
Parameters	SM	ММ	Adapter
Insertion Loss (dB)	≤0.6 (typical) ≤1.0 (Max.)	≤0.4 (typical) ≤0.75 (Max.)	1
Return Loss (dB)	≥35	≥25	/
Repeatability (dB)	≤0	/	
Durability (cycles)	≥5	≥500	
Operating Temp. (°C)	-25~	-25 ~ +70	
Tensile strength (N)	≥50 (this is not requ	1	

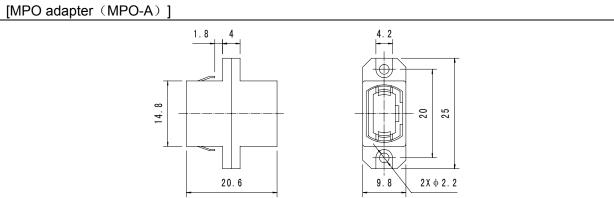
Outline dimensions

[MPO optic plug]

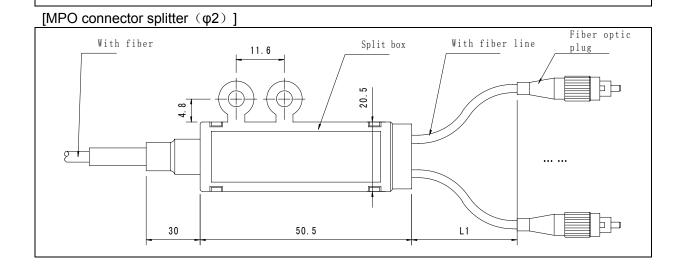








[MPO connector splitter (φ0.9)] With fiber Fiber optic plug 11.6 Split box line plug 30 45.5

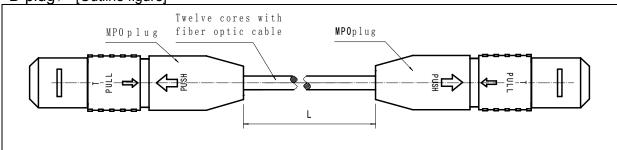




Ribbon/ Bundle Cable Fan-out Connectors

Standard MPO Optic cable connector (Both ends are MPO or MPO/

D plug) [Outline figure]



Note: L is the cable length required by users.

Features: Both ends are MPO or MPO/D plug. Cable is 12-core ribbon

cable. [Designation]

Basic series		RC	-MPO	-MPO	-M	5
Plug at end 1	MPO —without guide pin MPO/D—with guide pin					
Plug at end 2	MPO —without guide pin MPO/D—with guide pin					
Transmission mode	S-SM9/125 M-MM62. 5/125 MI-MM50/125 MIV-MM50/125 (OM3)					
Optic cable length	Number (Unit m)					

[P/N example]

Example 1: RC-MPO-M2

Explanation: Both ends are MPO plugs. Use MM62.5/125 cable for connection. Optic cable

length is 2m.

Example 2: RC-MPO/D-MPO-S1

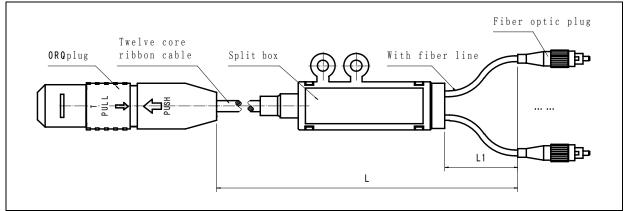
Explanation: End 1 is MPO/D plug and the other end is MPO plug, use SM9/125 cable

for connection. Optic cable length is 1m.



Standard MPO Optic cable connector (End 1 is MPO or MPO/D plug, End 2 is a plug)

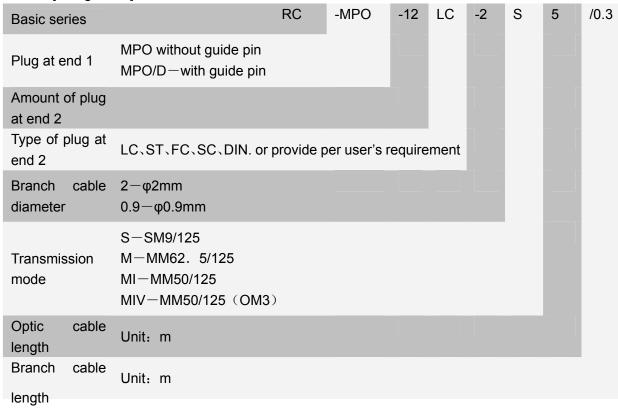
[Outline figure]



Note: L and L1 are the cable length/Branch cable length required by users.

Features: End 1 of cable is MPO plug and end 2 is optical plug. Cable is 12-core ribbon

cable. [Designation]



[P/N example]

Example 1: TE-MPO-12LC-2S2/0.5

Explanation: End 1 is MPO plug and end 2 is 12 LC plugs. SM 12-core ribbon cable. Optic

cable length 2m, Branch cable length 0.5m, Branch cable diameterφ2mm.

Example 2: TE-MPO-12FC-0.9M1/0.3

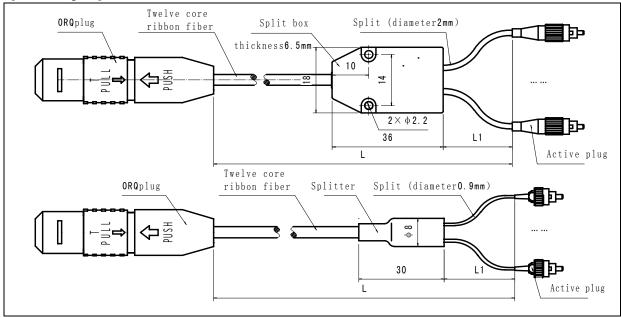
Explanation: End 1 is MPO plug and end 2 is 12 FC plugs. MM62.5/125 12-core ribbon cable.

Optic cable length 1m, Branch cable length 0.3m, Branch cable diameterφ0.9mm.



MPOE (Not fully loaded) Optic cable connector

[Outline figure]



Note: L and L1 are the cable length/Branch cable length required by users.

Features: End 1 of cable is MPO plug (generally not fully loaded) and end 2 is optical plug. Cable is 12-core ribbon cable. When MPO plug is not fully loaded, keep the cores near two sides and cut off the cores in the center. See the P/N example.

[Designation]

[Designation]									
		RC	-MPOE	-6	FC	-2	S	1	/0.3
Basic series	TE-ribbon cable TH- ribbon fiber								
Plug at end 1	MPO —without guide pin MPO/D—with guide pin								
Amount of plug at end 2	1 to 12 (generally even number	ers)							
Plug type at end 2	LC/ST/FC/SC/DIN, or provide per user's requirement								
Branch cable diameter	2-φ2mm 0.9-φ0.9mm								
	S-SM9/125								
Transmission mode	M-MM62. 5/125 MI-MM50/125 MIV-MM50/125 (OM3)								
Optic cable length	Unit: m								
Branch cable length	Unit: m								
[P/N example]									

[P/N example]

Example 1: TE-MPOE-6LC-2S2/0.5

Explanation: End 1 is MPOE plug and end 2 has 6 LC plugs. Use SM9/125 cable for connection.



Optic cable length is $2m_7$ Branch cable length is $0.5m_7$ Branch cable diameter $\phi 2mm$. Plug at splitter end corresponds to the number 1, 2, 3, 10, 11 and 12 core in MPO plug. Other cores are cut off.

Example 2: TH-MPOE-4FC-0.9M1/0.3

Explanation: End 1 is MPOE plug and end 2 has 4 LC plugs. Use MM62.5/125 fiber for connection. Optic cable length is 1m, Branch cable length is 0.3m, Branch cable diameterφ0.9mm. Plug at splitter end corresponds to the number 1, 2, 11 and 12 core in MPO plug. Other cores are cut off.