



The MPO is a high-density multi-fiber connector system built around precision molded MT ferrule. Ferrule alignment is achieved through high precision guide pins. The MPO trunk cable assemblies facilitate rapid deployment of high density backbone cabling in data centers and other high fiber environment, reducing network installation or reconfiguration time and cost.

PDR supply 4, 8, 12 and 24 fiber core configuration MPO with SM and MM fiber mode. Cable type are available for Jacket Ribbon Cable, Bare Ribbon Cable and Round Cable. End face are available for PC and APC polishing. MPO Connector housing are available in Green, Yellow, Beige and Aqua. Connectors are available for male and female.

## FEATURES

- Varieties of cable assemblies
- Fiber option: OS2, OM3, OM4, OM5
- Precision multifiber MT ferrule
- Push-pull latching
- Allow easy migration from 10GbE to 40GbE or 100GbE
- Supports up to 12F, 24F, 48F, 72F, 96F, 144F, customized products are available
- 100% factory terminated and tested

## APPLICATIONS

- Telecom, datacom
- Data communications system
- Optical fiber access networks
- High density architectures

## CABLE CHARACTERISTICS

CABLE CHARACTERISTICS	UNIT	VALUE
Cable Material	--	LSZH/ PVC
Cable Diameter	mm	Single jacket 12F – 3.0 Double jacket 12F – 4.5 Double jacket 24F – 4.5
Tensile Strength	N	Single jacket 12F– 200/100 Double jacket 12F – 400/150 Double jacket 24F – 400/150
Crush	N/100mm	Single jacket 12F– 500 Double jacket 12F– 1000

Operating Temperature	°C	-20 to 70
Minimum Bending Radius	mm	10D (installed) / 20D (loaded)

## SPECIFICATION

PARAMETERS		UNIT	VALUE			
MPO Connector		--	SM Standard	SM Low Loss	MM Standard	MM Low Loss
Insertion Loss	Typical	dB	0.35	0.20	0.35	0.20
	Maximun	dB	0.75	0.35	0.60	0.35
Return Loss		dB	≥55 for APC		≥20 for PC	
		dB	≥50 for UPC		--	
Durability		dB	<0.2 for 200 times insertion			
Operating Temperature		°C	-40 ~75°C			
Ferrule Type Available		--	4,8,12,24			

## ORDER INFORMATION

ORDER CODE example: **MPO-F-P-4-F-P-OS1-3-1-RC**

MPO with female connector1, pc end face1, female connector2, pc end face2. Fiber count is 4. Fiber mode is OS1. Cable diameter is 3.0mm and length 1mm. Cable type is Round Cable.

MPO	X	X	X	X	X	X	X	X	X
Code	Connector Type 1#	End Face 1#	Fiber Count	Connector Type 2#	End Face 2#	Fiber Mode	Cable Diameter	Cable Length	Cable Type
	F=MPO-Female M=MPO-Male	P=PC A=APC	4,8,12,24...	F=MPO-Female M=MPO-Male F=FC S=SC T=ST L=LC	P=PC A=APC	SM: OS1, OS2 MM: OM1, OM2, OM3, OM4	9=0.9mm 2=2mm 3=3mm 4=4.5mm	1=1m 2=2m 3=3m ...	RJ:Jacket Ribbon Cable RB:Bare Ribbon Cable RC:Round Cable

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