

8F & 12F MPO(MTP®) Patchcord Specifications



Parameters		Specifications		Units	Notes
Fiber Count		8~12			1. Comply with RoHS requirement 2. Endface comply with IEC 61300-3-35
Fiber Type		OS2/OM1/OM2/OM3/OM4/OM5			
Insertion Loss		Standard loss: ≤0.75 & Low loss: ≤0.35		dB	
Test Wavelength		Multimode	850	nm	
		Single Mode	1310 & 1550		
Return Loss		Multimode	≥20(PC)	dB	
		Single Mode	≥60 (APC)		
		Single Mode	≥40 (PC)		
Jacket	OD	3.0 (±0.2)		mm	
	Material	LSZH/PVC/OFNR/OFNP			
	Color	Multimode	Orange (OM1&OM2)		
		Multimode	AQUA (OM3&OM4&OM5)		
		Single Mode	Yellow (OS2)		
Strength Member		Aramid yarn			
Connector	Type	MPO Female & MPO Male(SENKO or Other Brand) MTP® Female & MTP® Male (USCONEC Brand)			
	Color	See Page 2 Connector color			
Polarity		See Page 3 Polarity (Type A/ Type B/ Type C)			
Packaging		R&H Neutral packing			
Operating Temperature		-10 ~ +60		℃	
Installation Temperature		-20 ~ +60		℃	

Storage Temperature	-25 ~ +70	°C	
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Notes:

- 1) Multimode Cable attenuation 3.0dB/km@850nm and 1.0dB/km@1300nm;
- 2) Single-mode Cable attenuation 0.4dB/km@1310nm and 0.3dB/km@1550nm;
- 3) Singlemode Test @1310nm&1550nm, Laser Optimized Multimode Test @850nm;
- 4) OS2 fiber(9/125um): G.652D, G.657A1,G.657A2, G.657B2,G.657B3; OM1 fiber (62.5/125um), OM2/OM3/ OM 4/OM5 fiber (50/125um);
- 5) Test Method is IEC 61300-3-4 METHOD B;
- 6) For other requirements, please consult the relevant staff.

4 Connector Color

Connector type		Housing Color	Boot Color	Cap Color	Remark
MPO/MTP®	MM(PC)	Aqua	Black	Black	
	SM STD LOSS(APC)	Green	Black	Black	apply to Standard LOSS
	SM STD LOSS(PC)	Blue	Black	Black	apply to Standard LOSS
	SM LOW LOSS(APC)	Yellow	Black	Black	apply to LOW LOSS

Notes:

- 7) Above is the R&H standard, if you have any other requirements, please order remarks (such as color, length, Connector brand);
- 8) Connector conforms to IEC 61754 and YD/T 1272 standard;
- 9) MM: Multimode, SM: Single Mode.

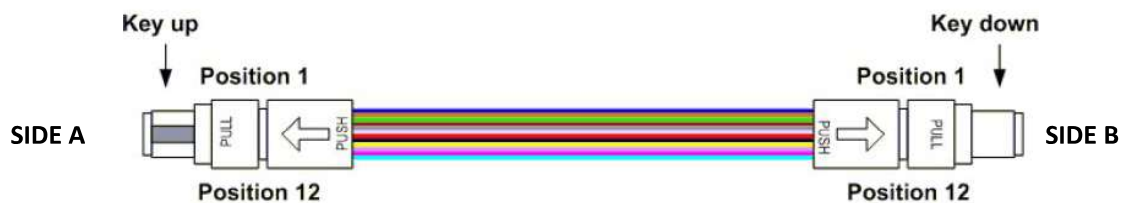
5 3D Geometric Parameters

Measured parameters			Min	Max	Remark
ROC	X-ROC		2000mm	N/A	
	Y-ROC		5mm	N/A	
Angle	X-Axis		-0.15°	+0.15°	
	Y-Axis	APC	7.8°	8.2°	
		Flat	-0.2°	+0.2°	
Fiber Height			1000nm	3500nm	
Diff. Height			N/A	500nm	
Adj. Height			N/A	300nm	
Core Dip			-200nm	+200nm	apply to multimode

6 Polarity (Conform to ANSI/TIA-568.3-D Standard)

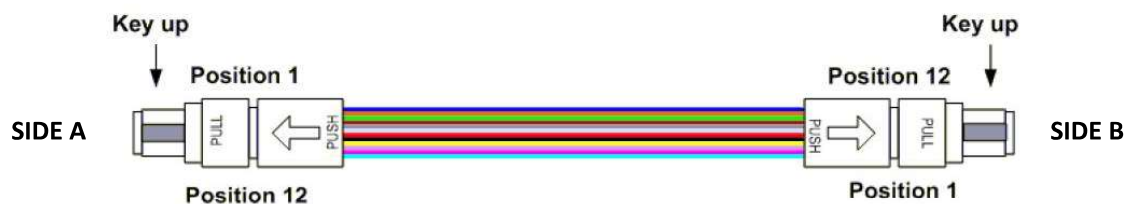
6.1 Type A Polarity

8F	Type A	SIDE A MT Hole Position	1	2	3	4	NA	NA	NA	NA	9	10	11	12
		SIDE B MT Hole Position	1	2	3	4	NA	NA	NA	NA	9	10	11	12
12F	Type A	SIDE A MT Hole Position	1	2	3	4	5	6	7	8	9	10	11	12
		SIDE B MT Hole Position	1	2	3	4	5	6	7	8	9	10	11	12



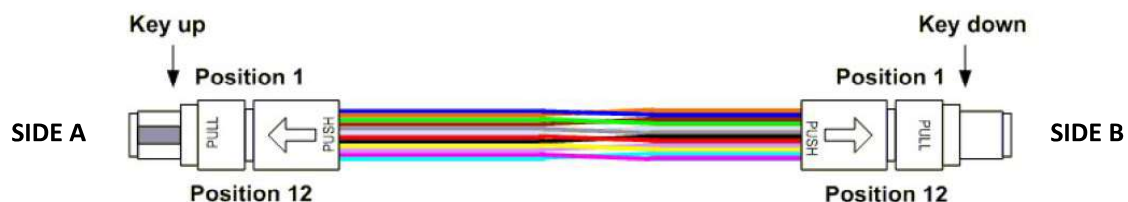
6.2 Type B Polarity

8F	Type B	SIDE A MT Hole Position	1	2	3	4	NA	NA	NA	NA	9	10	11	12
		SIDE B MT Hole Position	12	11	10	9	NA	NA	NA	NA	4	3	2	1
12F	Type B	SIDE A MT Hole Position	1	2	3	4	5	6	7	8	9	10	11	12
		SIDE B MT Hole Position	12	11	10	9	8	7	6	5	4	3	2	1



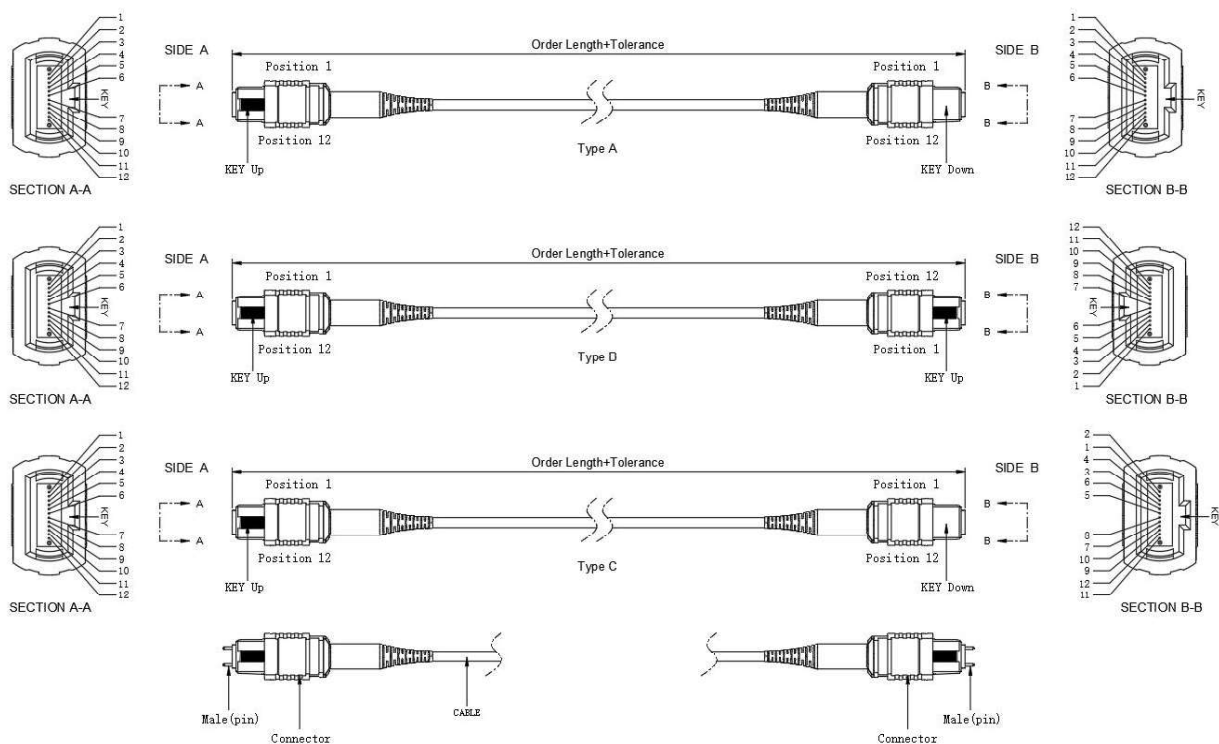
6.3 Type C Polarity

8F	Type C	SIDE A MT Hole Position	1	2	3	4	NA	NA	NA	NA	9	10	11	12
		SIDE B MT Hole Position	2	1	4	3	NA	NA	NA	NA	10	9	12	11
12F	Type C	SIDE A MT Hole Position	1	2	3	4	5	6	7	8	9	10	11	12
		SIDE B MT Hole Position	2	1	4	3	6	5	8	7	10	9	12	11



10) 8-core product uses only 1, 2, 3, 4, 9, 10, 11, and 12 holes.

7 Product diagram



Notes:

11) Connector figure in the drawing is for reference only, please refer to the actual object.

Order Length	Tolerance
$L \leq 1M$	+50mm/-0
$1 < L \leq 20M$	+200mm/-0
$L > 20M$	+1%*L/-0

End

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