

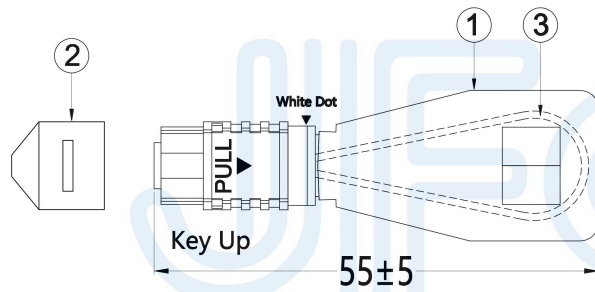


PRODUCT SPECIFICATION

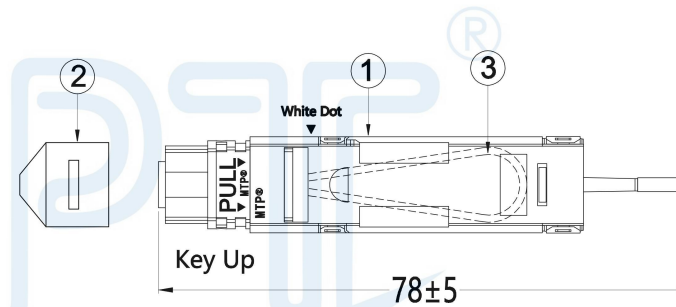
MPO/MTP LOOPBACK ASSEMBLY

Author	Auditor	Approver

MPO Loopback assembly



MTP Loopback assembly



POS.	Description	Specification	Q.ty
1	Loopback assembly	MPO/MTP Loopback assembly	1
2	Dust cover	MPO/MTP dust cover	1
3	Fibre cable	G652D/G657A2/OM3/OM4	1

* Different types of loopback assembly will have different components.
Please consult our company for details.

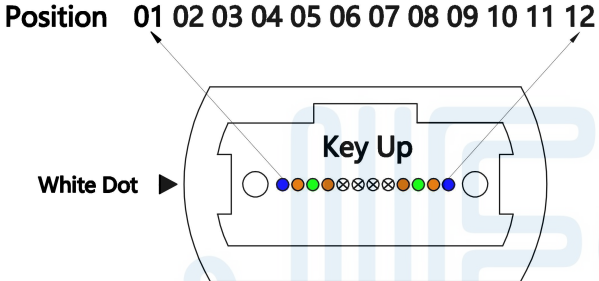
JFOPT JFOPT CO.,LTD.

Product Name	MPO/MTP Loopback assembly	Product Coding	
Design		Material	Date
Review		Unit	mm
Approval		Scale	Visual



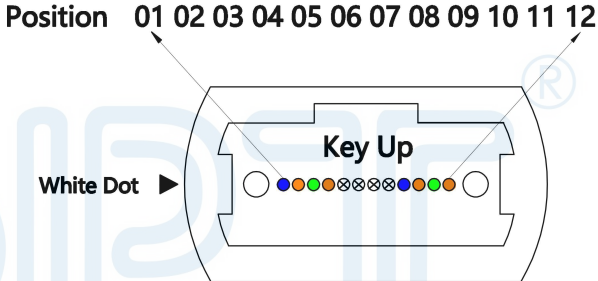
8 Core MPO/MTP Loopback End Face Channel Diagram

8 Core MPO/MTP Loopback Type A



Channel	Position	01	02	03	04	05	06
	/	↑ ↓	↑ ↓	↑ ↓	↑ ↓	Not used	Not used
	Position	12	11	10	09	08	07
Color		Blue	Orange	Green	Brown	/	/

8 Core MPO/MTP Loopback Type B



Channel	Position	01	02	03	04	05	06
	/	↑ ↓	↑ ↓	↑ ↓	↑ ↓	Not used	Not used
	Position	09	10	11	12	08	07
Color		Blue	Orange	Green	Brown	/	/

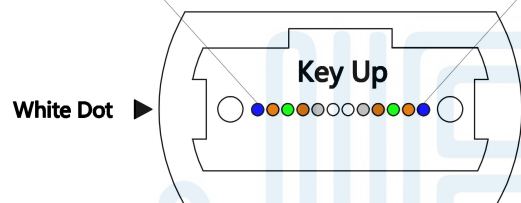
JFOPT JFOPT CO.,LTD.

Product Name	8 Core MPO/MTP Loopback	Product Coding		
Design		Material	Date	
Review		Unit	mm	Edition A
Approval		Scale	Visual	

12 Core MPO/MTP Loopback End Face Channel Diagram

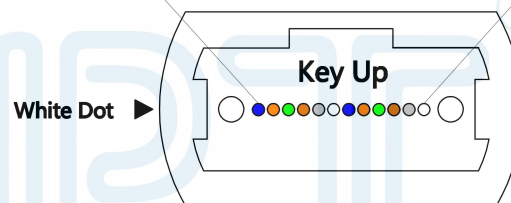
12 Core MPO/MTP Loopback Type A

Position 01 02 03 04 05 06 07 08 09 10 11 12



12 Core MPO/MTP Loopback Type B

Position 01 02 03 04 05 06 07 08 09 10 11 12



Channel	Position	01	02	03	04	05	06
	/	↕	↕	↕	↕	↕	↕
	Position	12	11	10	09	08	07
Color							

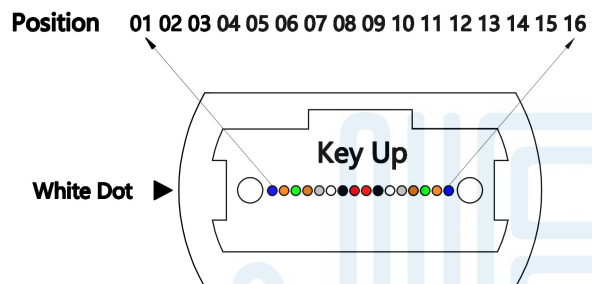
Channel	Position	01	02	03	04	05	06
	/	↕	↕	↕	↕	↕	↕
	Position	07	08	09	10	11	12
Color							

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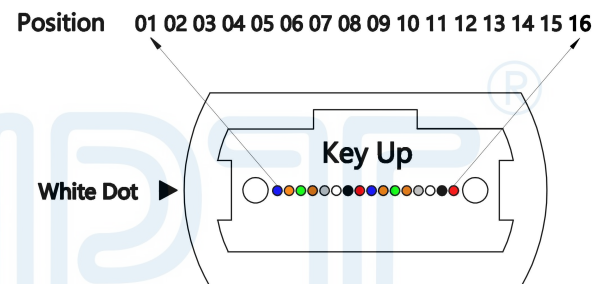
Product Name	12 Core MPO/MTP Loopback	Product Coding			
Design		Material		Date	
Review		Unit	mm	Edition	A
Approval		Scale		Visual	

16 Core MPO/MTP Loopback End Face Channel Diagram

16 Core MPO/MTP Loopback Type A



16 Core MPO/MTP Loopback Type B



Channel	Position	01	02	03	04	05	06	07	08
	/	↕	↕	↕	↕	↕	↕	↕	↕
	Position	16	15	14	13	12	11	10	09
Color		Blue	Orange	Green	Brown	Gray	White	Red	Black

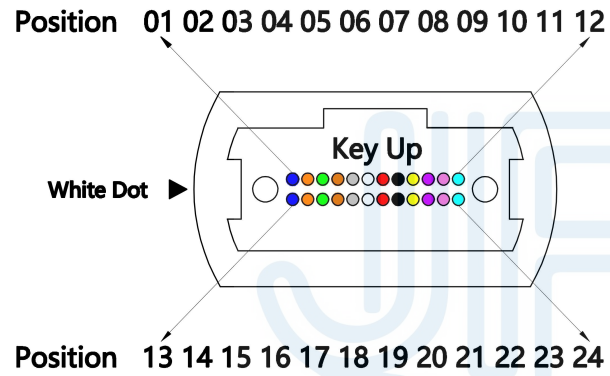
Channel	Position	01	02	03	04	05	06	07	08
	/	↕	↕	↕	↕	↕	↕	↕	↕
	Position	09	10	11	12	13	14	15	16
Color		Blue	Orange	Green	Brown	Gray	White	Red	Black

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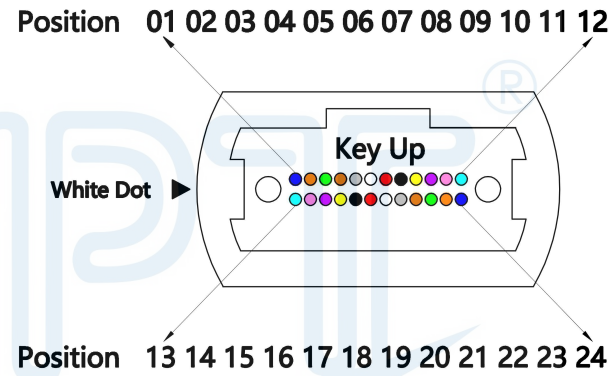
Product Name	16 Core MPO/MTP Loopback	Product Coding		
Design		Material	Date	
Review		Unit	mm	Edition A
Approval		Scale	Visual	

24 Core MPO/MTP Loopback End Face Channel Diagram

24 Core MPO/MTP Loopback Type A



24 Core MPO/MTP Loopback Type B



Channel	Position	01	02	03	04	05	06	07	08	09	10	11	12
	/	↑↓	↑↓	↑↓	↑↓	↑↓	↑↓	↑↓	↑↓	↑↓	↑↓	↑↓	↑↓
	Position	13	14	15	16	17	18	19	20	21	22	23	24
Color		Blue	Orange	Green	Brown	Gray	White	Red	Black	Yellow	Purple	Pink	Aqua

Channel	Position	01	02	03	04	05	06	07	08	09	10	11	12
	/	↑↓	↑↓	↑↓	↑↓	↑↓	↑↓	↑↓	↑↓	↑↓	↑↓	↑↓	↑↓
	Position	24	23	22	21	20	19	18	17	16	15	14	13
Color		Blue	Orange	Green	Brown	Gray	White	Red	Black	Yellow	Purple	Pink	Aqua

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Product Name	24 Core MPO/MTP Loopback	Product Coding		
Design		Material	Date	
Review		Unit	mm	Edition
Approval		Scale	Visual	A

End Face Requirement(Single-Mode)

Region	Scratch	Speckle	Other
Region A (0-25μm)	None	None	None
Region B (25-115μm)	No black scratches allowed, Allow two white scratches and the width≤2μm.	Allow three speckle and the diameters≤5μm.	No breakage and crack

End Face Requirement(Multi-Mode)

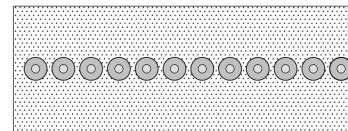
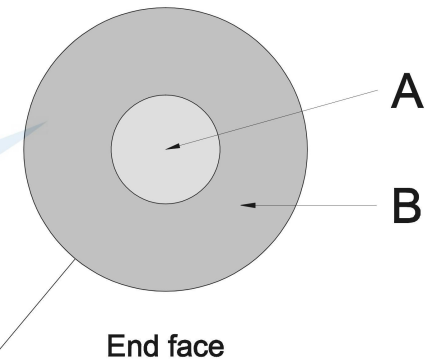
Region	Scratch	Speckle	Other
Region A (0-65μm)	None	None	None
Region B (65-115μm)	No black scratches allowed, Allow two white scratches and the width≤2μm.	Allow three speckle and the diameters≤5μm.	No breakage and crack

1. Inspection equipment requirements: Optical fiber end face detector more than 400 times.
2. For scratches (linear), it refers to the width; for speckles, fragments and particles (non linear), it refers to the maximum diameter; there shall be no cracks in the optical fiber area.
3. There shall be no massive piece stains, fragments, grinding residues, etc outside the contact area.
4. The removable dirt and loose particles on the end face of the insert core must be removed as far as possible. All the allowed defect connectors shall not exceed 15% of the total number.

Geometric Dimensions Requirement

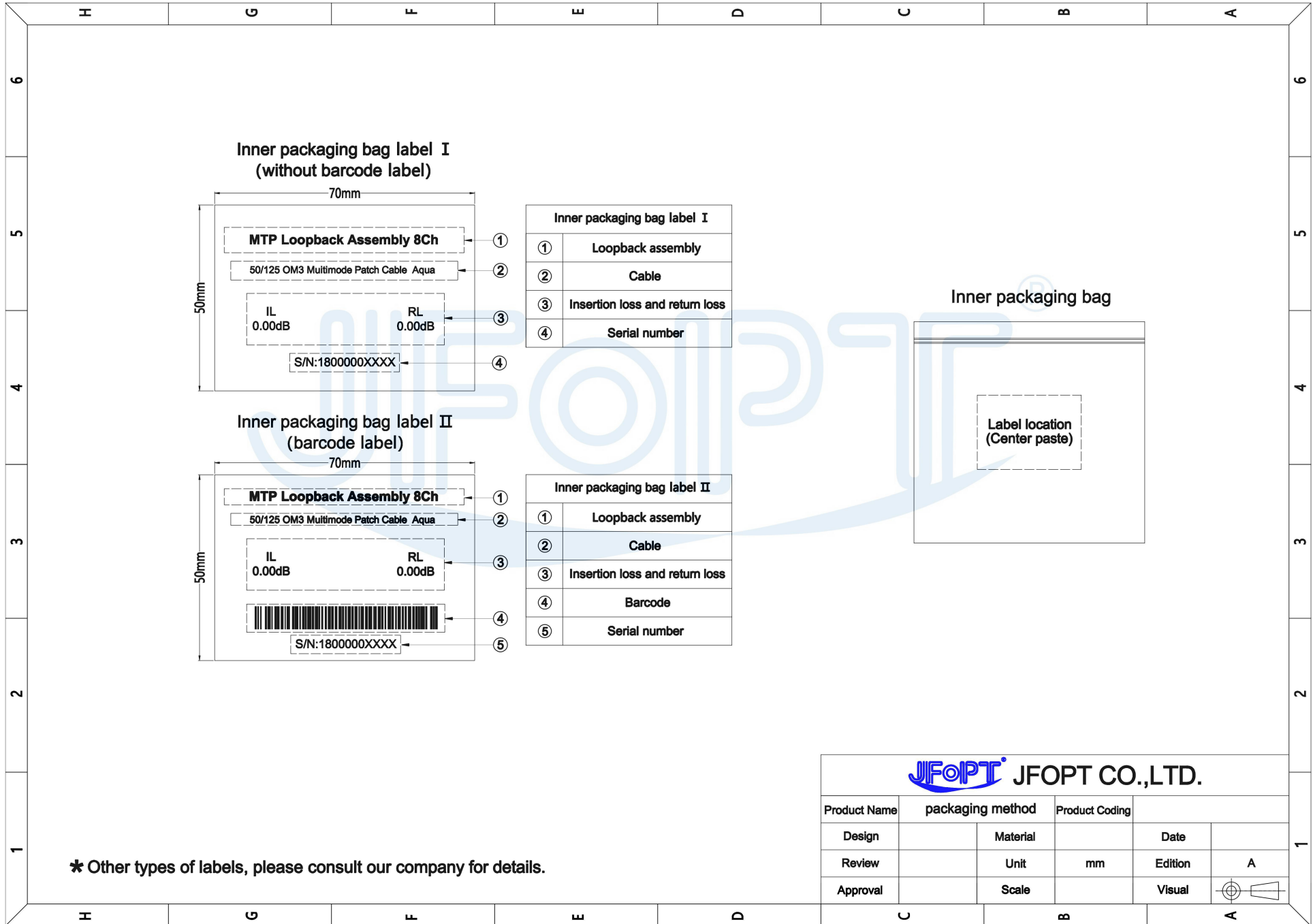
Items		Max	Min
Radius of curvature (mm)	X	2000	-10000
	Y	-	5
Angle (°)	X	0.15	-0.15
	Y (APC)	8.2	7.8
	Y (PC)	0.2	-0.2
Radius of curvature of optical core (mm)		-	1
Fiber height (nm)		3500	1000
Height difference of adjacent fiber (nm)		500	N/A
Maximum negative coplanar (nm)		300	N/A

* This item is optional.
Please consult our company for details.

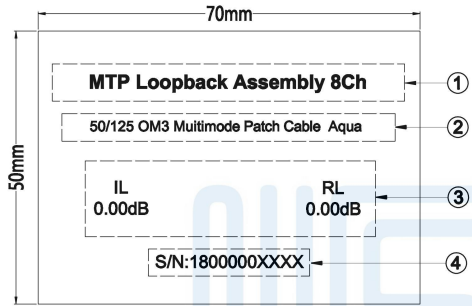


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Product Name	end face		Product Coding	
Design	Material	Date	A	
Review	Unit	mm	Edition	A
Approval	Scale	Visual		

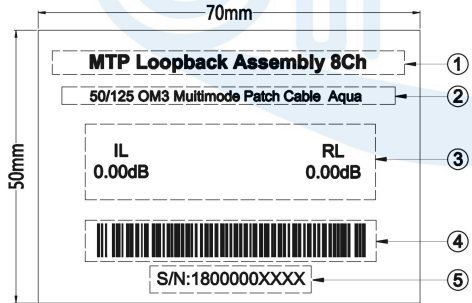


**Inner packaging bag label I
(without barcode label)**



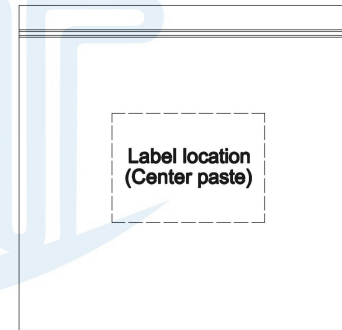
Inner packaging bag label I	
①	Loopback assembly
②	Cable
③	Insertion loss and return loss
④	Serial number

**Inner packaging bag label II
(barcode label)**



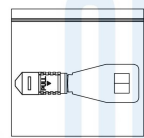
Inner packaging bag label II	
①	Loopback assembly
②	Cable
③	Insertion loss and return loss
④	Barcode
⑤	Serial number

Inner packaging bag

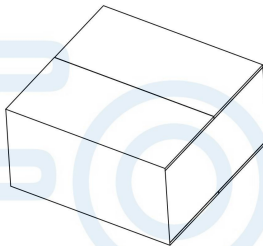


* Other types of labels, please consult our company for details.

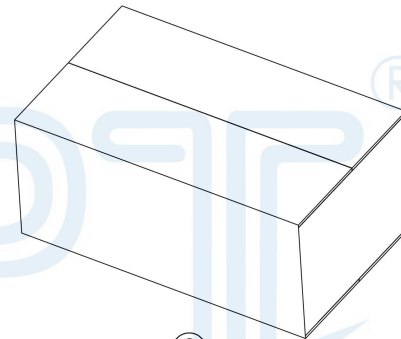
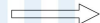
JFOPT® JFOPT CO.,LTD.					
Product Name	packaging method	Product Coding			
Design	Material	Date			
Review	Unit	mm	Edition	A	
Approval	Scale	Visual			



①



②



③

Packaging

1. Loopback assembly packed in Inner packaging bag.
2. Multiple outer packaging bags packed in inner carton.
3. Multiple inner cartons packed in outer carton.

* Different types of loopback assembly, the packaging will be different.
Please consult our company for details.

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Product Name	packaging method	Product Coding		
Design	Material	Date		
Review	Unit	mm	Edition	A
Approval	Scale	Visual		