

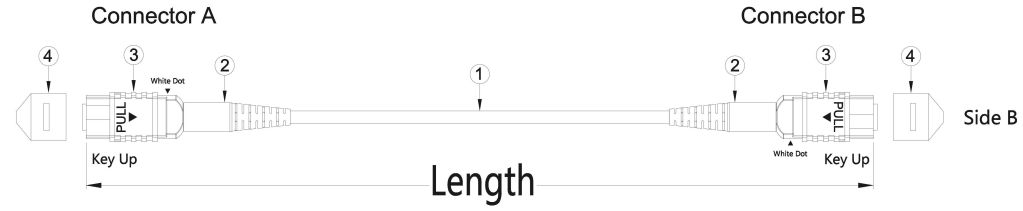


PRODUCT SPECIFICATION

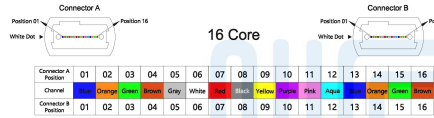
MPO/MTP PATCH CORD

Author	Auditor	Approver

MPO/MTP-MPO/MTP DIAGRAM



Type A



Type B



32 Core



32 Core



Type C



POS.	Description	Specification	Q.ty
1	Cable	Ribbon/Miniature Cable	1
2	Connector boot	MPO/MTP boot	2
3	Optical connector	MPO/MTP connector multimode	2
4	Dust cover	MPO/MTP dust cover	2

Length tolerance table	
Grade	Tolerance range(cm)
I	0 ≤ X ≤ 6.0

* Different types of patch cord will have different components. Please consult our company for details.

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Product Name	MPO/MTP-MPO/MTP Patch Cord	Product Coding	
Design	Material	Date	
Review	Unit	mm	Edition A
Approval	Scale	Visual	

Reference Standard:

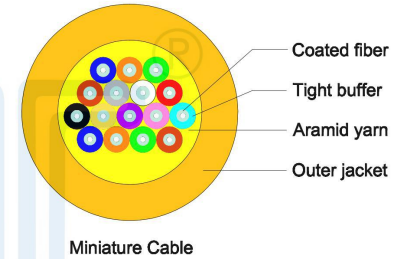
- 1.IEC 61754-7-1:2014 《Fibre optic interconnecting devices and passive components - Fibre optic connector interfaces - Part 7-1: Type MPO connector family - One fibre row》
- 2.IEC 61754-7-2:2017 《Fibre optic interconnecting devices and passive components - Fibre optic connector interfaces - Part 7-2: Type MPO connector family - Two fibre rows》
- 3.IEC 61754-7-3:2019 《Fibre optic interconnecting devices and passive components - Fibre optic connector interfaces - Part 7-3: Type MPO connector family - Two fibre rows 16 fibre wide》
- 4.GR 1435 《Core Generic Requirements for Multi-Fiber Optical Connectors》
- 5.YD/T 1272.5 《Optical fiber connector-part 5: Type MPO》

* Due to different product requirements and grades, Compliance with different grades and requirements of a standard may vary.Please consult our company for details.

Reference Test Standards:


- 1.GB/T 7424.2-2008 《Optical fibre cable generic specification-Part 2: Basic optical cable test procedures》
- 2.GB/T 7424.1-2003 《Generic specification for optical fibre cables-Part 1:General》
- 3.IEC 61300-2-17:2010 《Fibre optic interconnecting devices and passive components-Basic test and measurement procedures - Part 2-17: Tests-Cold》
- 4.IEC 61300-2-18:2005 《Fibre optic interconnecting devices and passive components-Basic test and measurement procedures - Part 2-18: Tests-Dry heat-High temperature endurance》
- 5.IIEC 61300-2-19:2012 《Fibre optic interconnecting devices and passive components-Basic test and measurement procedures-Part 2-19: Tests-Damp heat (steady state)》
- 6.IEC 61300-2-21:2009 《Fibre optic interconnecting devices and passive components-Basic test and measurement procedures-Part 2-21: Tests-Composite temperature/humidity cyclic test》
- 7.IEC 61300-2-22:2007 《Fibre optic interconnecting devices and passive components-Basic test and measurement procedures-Part 2-22: Tests-Change of temperature》
- 8.IEC 61300-3-6:2008 《Fibre optic interconnecting devices and passive components-Basic test and measurement procedures-Part 3-6: Examinations and measurements-Return loss》
- 9.IEC 61300-3-34:2009 《Fibre optic interconnecting devices and passive components-Basic test and measurement procedures-Part 3-34: Examinations and measurements-Attenuation of random mated connectors》
- 10.IEC 61300-3-45:2011 《Fibre optic interconnecting devices and passive components-Basic test and measurement procedures-Part 3-45: Examinations and measurements-Attenuation of random mated multi-fibre connectors》

APPLICABLE CABLE



Miniature Cable

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

End Face Requirement(Single-Mode)

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

End Face Requirement(Multi-Mode)

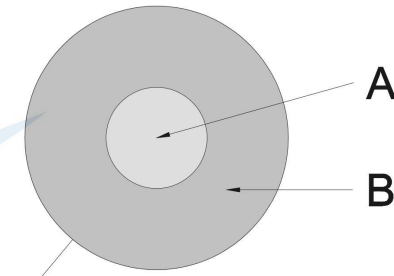
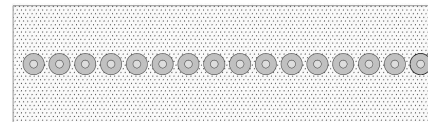
Region	Scratch	Speckle	Other
Region A (0-65 μ m)	None	None	None
Region B (65-115 μ m)	No black scratches allowed, Allow two white scratches and the width \leq 2 μ m.	Allow three speckle and the diameters \leq 5 μ m.	No breakage and crack

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

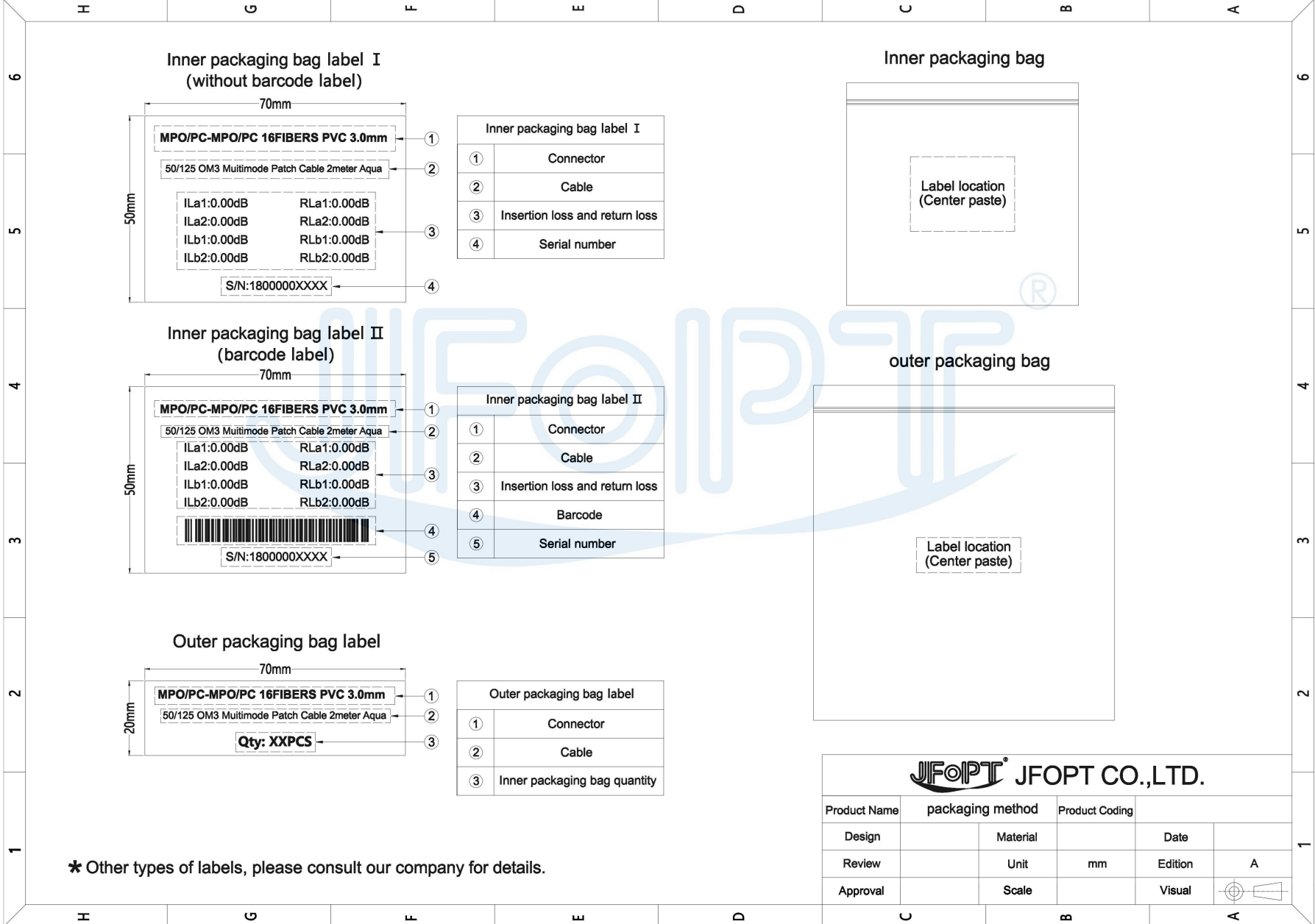
* This item is optional.
Please consult our company for details.



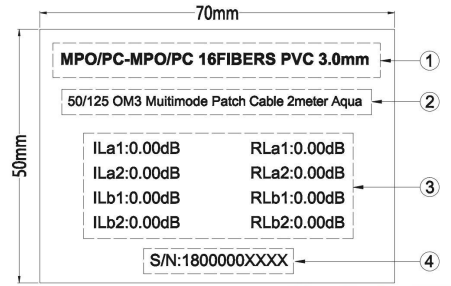
End face

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



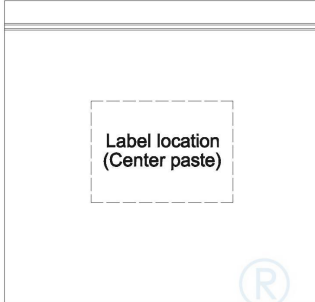
**Inner packaging bag label I
(without barcode label)**



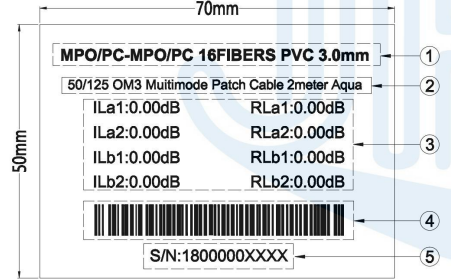
Inner packaging bag label I

①	Connector
②	Cable
③	Insertion loss and return loss
④	Serial number

Inner packaging bag



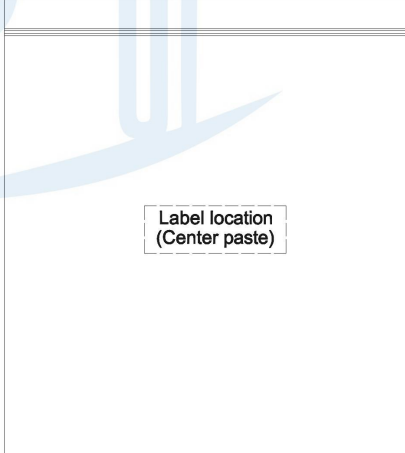
**Inner packaging bag label II
(barcode label)**



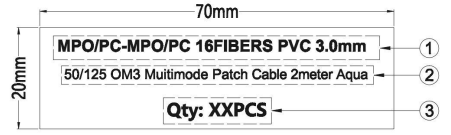
Inner packaging bag label II

①	Connector
②	Cable
③	Insertion loss and return loss
④	Barcode
⑤	Serial number

outer packaging bag



Outer packaging bag label



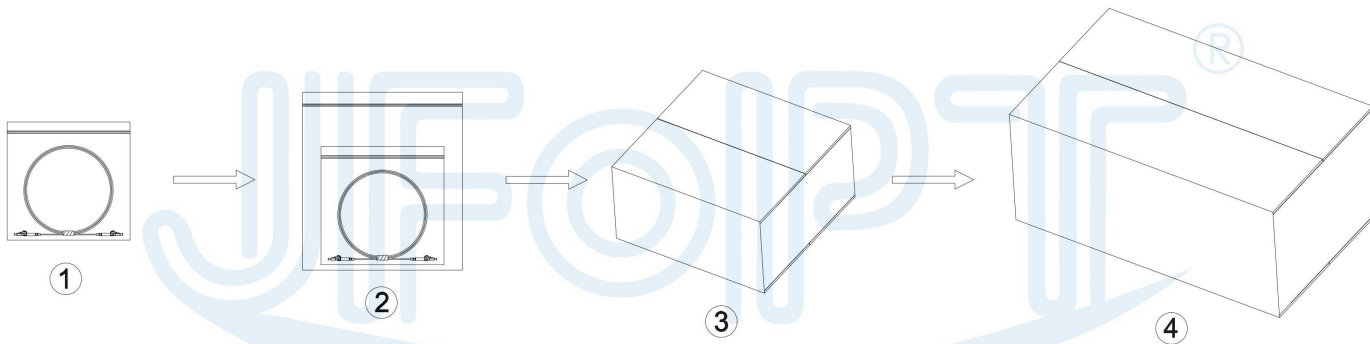
Outer packaging bag label

①	Connector
②	Cable
③	Inner packaging bag quantity

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

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



Packaging

1. Optical fiber jumper packed in Inner packaging bag.
2. Multiple Inner packaging bags packed in outer packaging bag.
3. Multiple outer packaging bags packed in inner carton.
4. Multiple inner cartons packed in outer carton.

* Different types of patch cord, 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
Approval		Scale		Visual