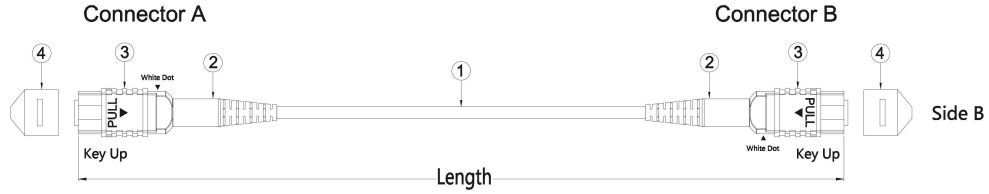




PRODUCT SPECIFICATION
MPO/MTP PATCH CORD

Author	Auditor	Approver

MPO/MTP-MPO/MTP DIAGRAM



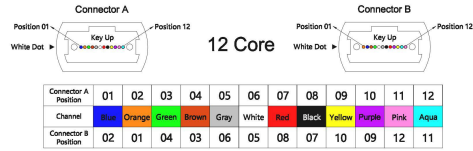
Type A



Type B



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.



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

Reference Standard:

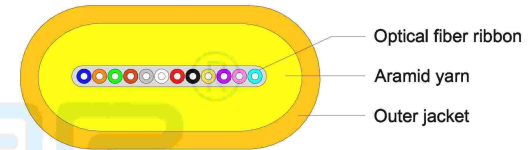
- 1.IEC 61754-7-1:2014 《Fibre optic interconnecting devices and passive components - Fibre optic connector interfaces - Part 7-1: Type MPO connector family - One fibre row》
- 2.IEC 61754-7-2:2017 《Fibre optic interconnecting devices and passive components - Fibre optic connector interfaces - Part 7-2: 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.

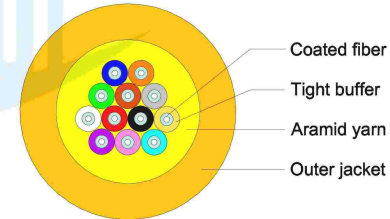
Reference Test Standards:

- 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.IEC 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



Ribbon Cable



Miniature Cable

JFOPT® JFOPT CO.,LTD.

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)

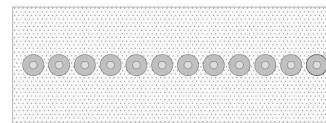
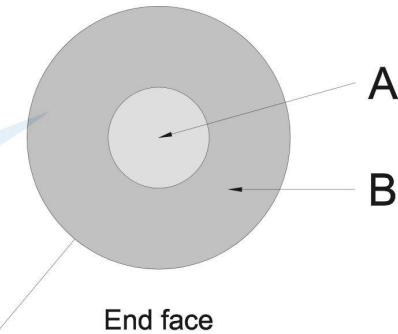
Region	Scratch	Speckle	Other
Region A (0-65 μ m)	None	None	None
Region B (65-115 μ m)	No black scratches allowed, Allow two white scratches and the width \leq 2 μ m.	Allow three speckle and the diameters \leq 5 μ m.	No breakage and crack

- 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

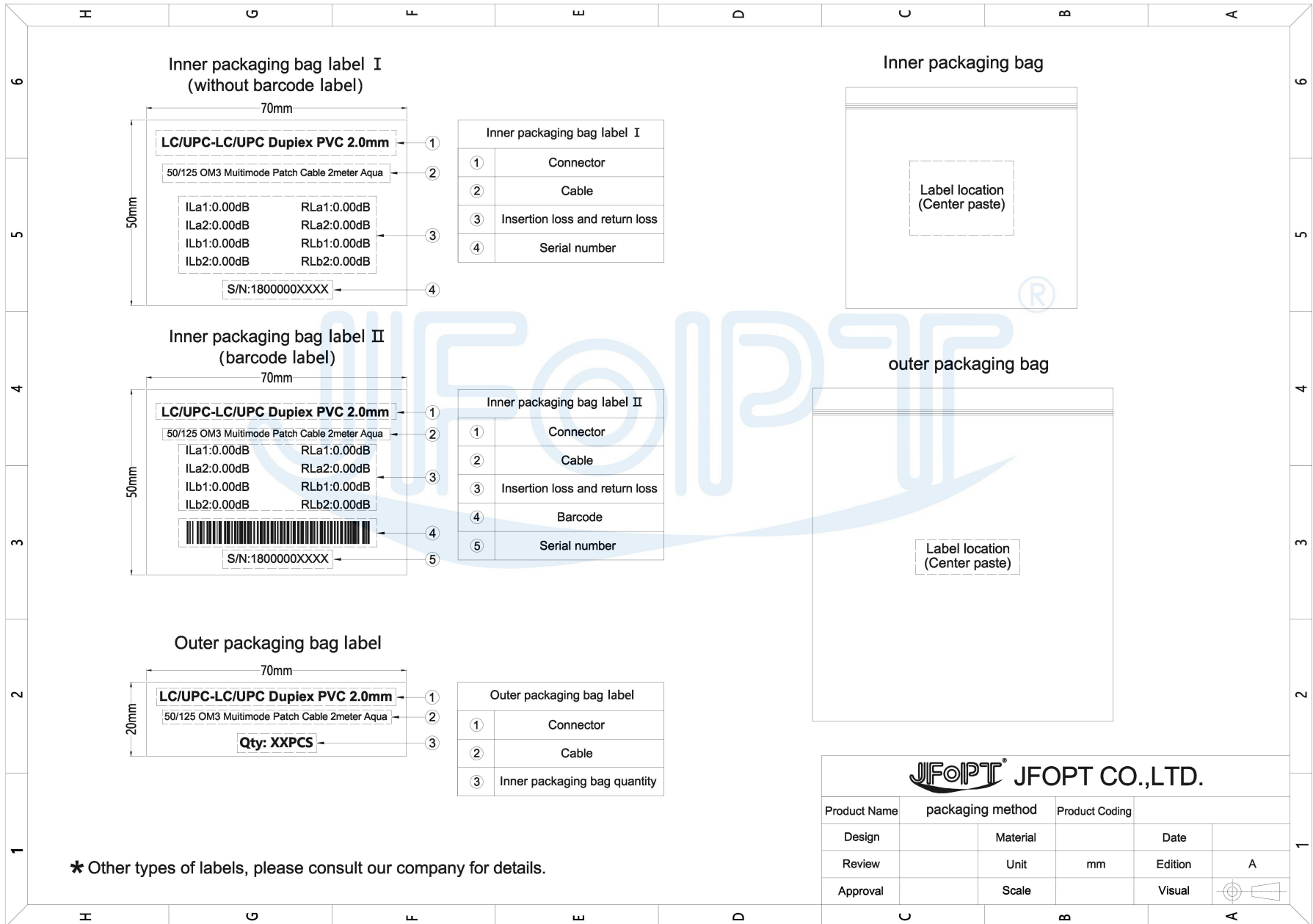
* This item is optional.
Please consult our company for details.

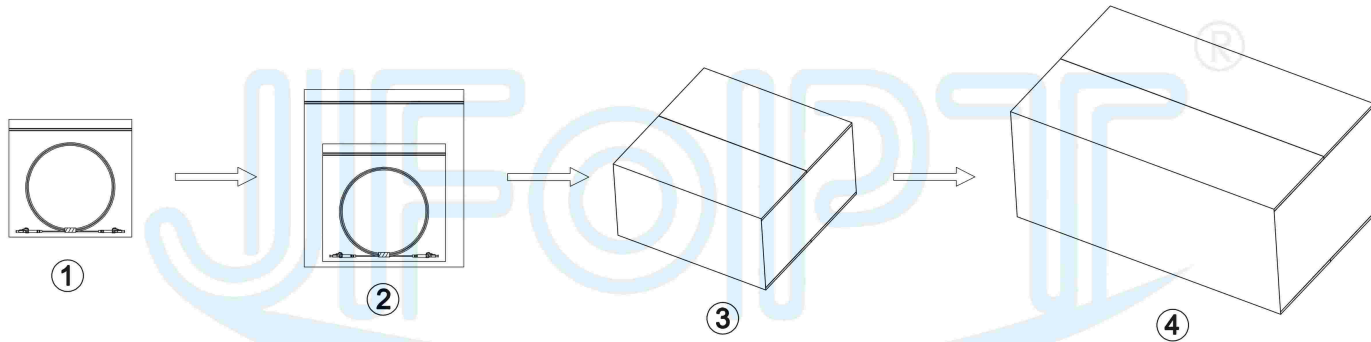


JFOPT® JFOPT CO.,LTD.

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







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.

JFOPT® JFOPT CO.,LTD.

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

