



無錫光云通信科技有限公司

Opti Cloud Technologies , Inc

DATA SHEET

MPO Optical Cable

1PMM03XXXX

Headquarter

C-55,HuiGu innovation Part,No.35,XingZhi Rd
Huishan District, Wuxi City ,JiangSu 214174 P.R. China.
TEL : +86-510-6661-8808 Fax : +86-510-6661-8758

Taiwan Branch

No.32,Jiafeng 3rd St
Zhubei City,Hsinchu County 30271,Taiwan,(R.O.C)
TEL : +886-3-668-2378 Fax : +886-3-668-2379



MPO Optical Cable





MPO Optical Cable

Specification

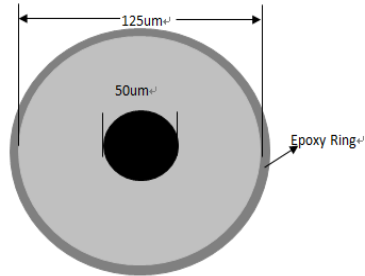
ITEM	A Class	B Class	C Class
Insertion Loss, dB	$IL \leq 0.35 + L * 0.003 \text{dB}$	$IL \leq 0.50 + L * 0.003 \text{dB}$,	$IL \leq 0.70 + L * 0.003 \text{dB}$
Storage Temperature, °C	-40 ~+85	-40 ~+85	-40 ~+85
Operating Temperature, °C	-20 ~+70	-20 ~+70	-20 ~+70
Cable Type	MM Round/ Oval Cable	MM Round/ Oval Cable	MM Round/ Oval Cable

ITEM	A Class	B Class	C Class
Insertion Loss, dB	$IL \leq 0.35 \text{dB}$, $BR \geq 65 \text{dB}$	$IL \leq 0.50 \text{dB}$, $BR \geq 65 \text{dB}$	$IL \leq 0.70 \text{dB}$, $BR \geq 65 \text{dB}$
Storage Temperature, °C	-40 ~+85	-40 ~+85	-40 ~+85
Operating Temperature, °C	-20 ~+70	-20 ~+70	-20 ~+70
Cable Type	SM Round/ Oval Cable	SM Round/ Oval Cable	SM Round/ Oval Cable



MPO Optical Cable

Ferrule cross-section inspection

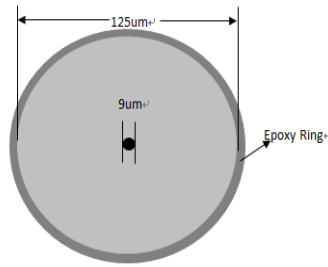


MPO MM endface criteria(Fiber endface criteria for 400X)(A Class)				
	Defect description		allow quantity	Note
Core	White scrath	Width \leq 2um	2PCS	OK
	Spot	Diameter \leq 2um	2pcs	OK
	Brocken	/	None	OK
Cladding	White scrath	Width \leq 3um	3PCS	OK
	Black scrath	Width \leq 3um	2pcs	OK
	Black spot	Width \leq 3um	3pcs	OK
	Big black spot	Width \leq 3um	5pcs	OK
	Big scrath	Width \leq 3um		
	Nick		\leq 2um	All circumference
		\leq 6um	length<1/6 circumference	Total length less than 1/6 circumference.

MPO MM endface criteria(Fiber endface criteria for 400X)(B Class)				
	Defect description		allow quantity	Note
Core	White scrath	Width \leq 2um	No Limit	OK
	Spot	Diameter \leq 2um	5pcs	OK
	Brocken	/	None	OK
Cladding	White scrath	Width \leq 3um	No Limit	OK
	Black scrath	Width \leq 3um	2pcs	OK
	Black spot	Width \leq 2um	No Limit	OK
	Big black spot	Width \leq 5um	3pcs	OK
	Big scrath	Width \leq 5um	1pcs	
	Nick		\leq 2um	All circumference
		\leq 15um	length<1/4 circumference	Total length less than 1/4 circumference.



MPO Optical Cable



MPO SM endface criteria(Fiber endface criteria for 400X)(A Class)				
	Defect description		allow quantity	Note
Core	No defect allowed			OK
Cladding	Scratch (white)	Width \leq 1 um	1pcs	OK
		Width $>$ 1 um	2pcs	OK
	Scratch (black)	Width \leq 1um	2pcs	OK
		Width $>$ 1 um		NG
	Spot	Width $<$ 2.5 um	1pcs	OK
		Width \leq 10 um	2pcs	OK
		Width $>$ 10 um		NG
	Nick	\leq 2um	All circumference	OK
\leq 6um		length $<$ 1/6 circumference	Total length less than 1/6 circumference.	

MPO SM endface criteria(Fiber endface criteria for 400X)(B Class)				
	Defect description		allow quantity	Note
Core	No defect besides white scratch		NG	
	White scrath	Width \leq 1um	There can be one white scratch per endface	
Cladding	White scrath	Width \leq 3um	NO LIMIT	
	Black scrath	Width \leq 3um	1pcs	
	Black spot	Width \leq 2um	10pcs	
	Big black spot	Width \leq 5um	1pcs	
	Nick	\leq 15um	length $<$ 1/4 circumference	Total length less than 1/4 circumference.



MPO Optical Cable

Fiber Geometry Parameters Criteria

Multi-fiber					
Fiber	Parameters	Fiber count: 12		Fiber count: 24	
		minimum	maximum	minimum	maximum
Multimode	X-axis Radius of Curvature(mm)	abs 2000	/	abs 2000	/
	Y-axis Radius of Curvature(mm)	abs 5	/	abs 5	/
	Angle in X-direction(deg)	-0.2	0.2	-0.2	0.2
	Angle in Y-direction(deg)	-0.2	0.2	-0.2	0.2
	Fiberheight(um)	1000	5000	1000	15000
singlemode	X-axis Radius of Curvature(mm)	abs 2000	/	abs 2000	/
	Y-axis Radius of Curvature(mm)	abs 5	/	abs 5	/
	Angle in X-direction(deg)	-0.2	0.2	-0.2	0.2
	Angle in Y-direction(deg)	-7.8	8.2	-7.8	8.2
	Fiberheight(um)	1000	5000	1000	15000

Drawing

