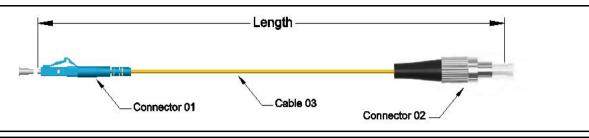


SHENZHEN HBY ELECTRONICS CO.,LTD

FO Patch Cord Specification

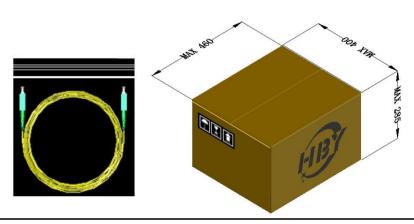
File No.: FOPC-20231005

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specifications	Category		Spec					Remarks
	Connector	NO:01		LC/UPC	SM/SX	Blue		
		NO:02		FC/UPC	SM/SX	Black		
	Cable		Fiber Type	G652D	Diame	eter	Ф3.0mm	
			Material	PVC	Cold	or	Yellow	

	Material no.	Length(M)	QTY(PCS/BOX)		
	TX-SX-129HBY	10. ±0.03	150		
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Reference Pictures

per	Endface	A class see table 01		Radius of Curvature (mm)	7 ~ 25	100%
	IL	< 0.3 dB	3D	Apex Offset(um)	< 50	95%
forn	RL ≥ 50 dB			Fiber High(nm)	±50	90%
performance	Working Temperature	-40 ℃ to +85 ℃				
	Storage Temperature	-40 ℃ to +85 ℃				
	Humdity	can work under 95% relative humdity environment normally				

Table 01 endface	Area	Class A standard (excellent)		Class B standard (Good)			Class C standard(Qualified)			
		Scratch	Dirty spots	Crack	Scratch	Dirty spots	Crack	Scratch	Dirty spots	Crack
	① area:	NO	NO	NO	NO	NO	NO	NO	NO	NO
	② area:	NO	NO	NO	NO	NO	NO	NO	NO	NO
Requirements	③ area:	NO	NO	NO	1um 1pc allowed	1um 1pc allowed	1um 1pc allowed	1um 1pc allowed	1um 2pcs allowed	1um 2pcs allowed
	④ area:	NO	NO	NO	1um 1pc allowed	1um 1pc allowed	1um 1pc allowed	1um 1pc allowed	1um 2pcs allowed	1um 2pcs allowed

The following tests must meet this result

Loss should be within the following limits in reference to the initial value

The difference between Initial Value and final test value should be ≤0.30 dB,
● Return loss should be ≥50 dB

_	•	Number of Pull/Insert: 500 times	echnical Performan				
Insert/Pull Test	•	Record a data every 10 times					
	•	Data is recorded 50 times in total					
st	•	Clean pins and adapter's elastic sleeve before recording very time, ● Not mechanical damage, such as decorrosion, relaxation and other phenomena	eformation, loss,				
Tensile	•	Load:50N	∋chnical Performan				
	*	Tensile variation in process of testing: 1N/S					
Requirements	•	Duration:60s					
nts	•	Tensile Point:0.22-0.28m distance from fiber cable ends					
Torsi	•	• Applied force: 15N	chnical Performan				
on Re	•	The distance between the Torsion point and Connector is 0.2cm					
Torsion Requirements	•	Max Torsion Angle: ±180°					
nents	•	Number of torsions:25 times					
High	•	High Temperature=+75 ℃,Temperature rate of change:1 ℃ / min	echnical Performan				
High and Lov Test	•	Low Temperature=-25 $^\circ\!\mathbb{C}$, Temperature rate of change 1 $^\circ\!\mathbb{C}$ / min					
カ <	•	High and low temperature points to stay four hours separately					
Temperature Cycling Requirements	•	Duration: 96h					
rature nents	*	Cycles: 12 times					
Cycli	•	Keep 2 hours at 25℃,then test					
ing	•	Insertion value should be tested at least one time per 10 mins. in process of testing.					
Low Temperature Requirements	•	Temperature=-25°C ±2°C	⇒chnical Performan				
	•	Duration:96H					
	•	2 hours returned to 25℃					
	•	Test after Keeping 2 hours at 25℃					
	•	Insertion value should be tested at least one time per 60 mins. in process of testing.					

H	•	Temperature=+75 °C ±2 °C	echnical Performan
High Temperature Requirements	•	Duration:96H	
npera emen	•	2 hours returned to 25℃	
ture ts	•	Test after Keeping 2 hours at 25℃	
	♦	Insertion value should be tested at least one time per 60 mins. in process of testing.	
muH	•	Temperature=+40 ℃ ±2℃	echnical Performan
nidity	•	humidity =93% ±5%RH	
Humidity Requirements	•	Duration:96H	
ments	•	Test after Keeping 2 hours at 25℃	
	•	Insertion value should be tested at least one time per 60 mins. in process of testing.	
Wa:	•	elevation of water:150mm	echnical Performan
Water Immersion Requirements	•	Temperature:room temperature/running water	
	•	Soaking time:168 h	
	•	Insertion value should be tested at least one time per 10 mins. in process of testing.	