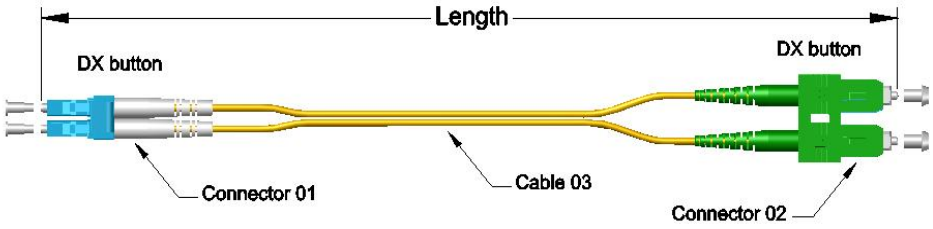
SHENZHEN HBY ELECTRONICS CO.,LTD

FO Patch Cord Specification

File No.: HBY-FTTH-22001

Picture



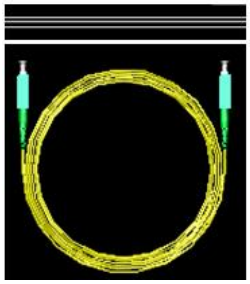
specifications

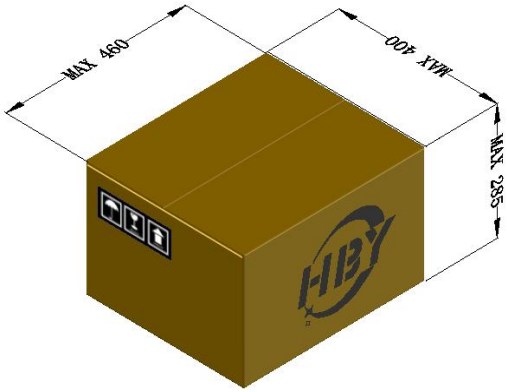
Category		Spec				Remarks
Connector	NO:01	LC/UPC DX/SM Blue				
	NO:02	SC/APC DX/SM Green				
Cable	NO:03	Fiber Type	G657A1	Diameter	Φ3.0mm	
		Material	PVC	Color	Yellow	

Packaging information

Material no.	Length(M)	QTY (PCS)
TX-DX-79HBY	2.0 ±0.03	240

Reference Pictures





performance

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

Table 01 endface Requirements

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
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,υ Return loss should be≥50 dB

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Insert/Pull Test

- Number of Pull/Insert：500 times
- Record a data every 10 times
- Data is recorded 50 times in total
- Clean pins and adapter's elastic sleeve before recording very time,υ Not mechanical damage, such as deformation, loss, corrosion, relaxation and other phenomena

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Tensile Requirements

- Load:50N
- Tensile variation in process of testing：1N/S
- Duration:60s
- Tensile Point:0.22-0.28m distance from fiber cable ends

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Torsion Requirements

- υ
  Applied force：15N
- The distance between the Torsion point and Connector is 0.2cm
- Max Torsion Angle: ±180°
- Number of torsions:25 times

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High and Low Temperature Cycling Test Requirements

- High Temperature=+75℃，Temperature rate of change:1 ℃ / min
- Low Temperature=-25℃，Temperature rate of change 1 ℃ / min
- High and low temperature points to stay four hours separately
- Duration: 96h
- Cycles: 12 times
- Keep 2 hours at 25℃,then test
- Insertion value should be tested at least one time per 10 mins. in process of testing.

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Low Temperature Requirements

- Temperature=-25℃ ±2℃
- 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.

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High Temperature Requirements

- Temperature=+75℃ ±2℃
- 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.

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Humidity Requirements

- Temperature=+40℃ ±2℃
- humidity =93% ±5%RH
- Duration:96H
- Test after Keeping 2 hours at 25℃
- Insertion value should be tested at least one time per 60 mins. in process of testing.

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Water Immersion Requirements

- elevation of water:150mm
- 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.