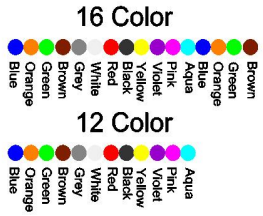
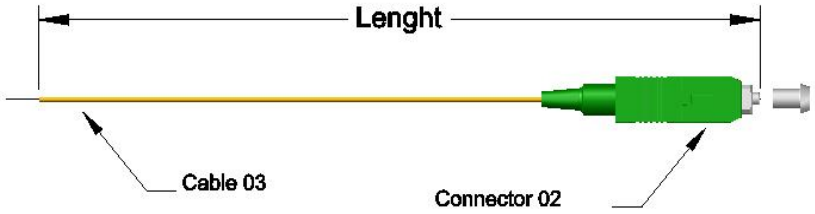
SHENZHEN HBY ELECTRONICS CO.,LTD

Pigtail Specification

File No.: HBY-FTTH-22001

Picture





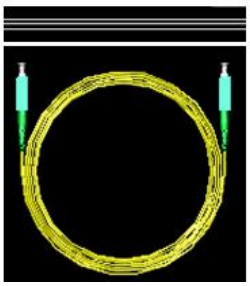
specifications

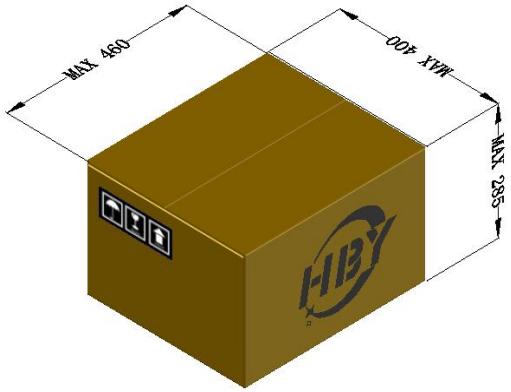
Category		Spec				Remarks
Connector	NO:01	*SC/APC*	*SM/SX*	*Green*		
	NO:02					
Cable	NO:03	Fiber Type	*G657A1*	Diameter	*Φ0.9mm*	
		Material	*PVC*	Color	*yellow*	

Packaging information

Material no.	Length(M)	QTY
WQ-SA01-08HBY	*1.5 ±0.03*	*1000 PCS*
WQ-SA01-09HBY	*2.0 ±0.03*	*1000 PCS*

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

Insert/Pull Test

Mechnical Performance

- 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

Tensile Requirements

Mechnical Performance

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

Torsion Requirements

Mechnical Performance

- υ
  Applied force：4 N
- The distance between the Torsion point and Connector is 0.2cm
- Max Torsion Angle: ±180°
- Number of torsions:25 times

High and Low Temperature Cycling Test Requirements

Mechnical Performance

- 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.

Low Temperature Requirements

Mechnical Performance

- 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.

High Temperature Requirements

Mechnical Performance

- 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.

Humidity Requirements

Mechnical Performance

- 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.

Water Immersion Requirements

Mechnical Performance

- 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.