

Edition:A.0

Product Specification

Fiber optic patch cord Simplex, Yellow,Single mode 9/125um G657A1
OD2.0mm LSZH,LC/PC to LC/PC 2M

Based on standard	YDT 2152-2010 /IEC 61300/IEC 60794/ IEC 61754
Performer	QC Department HONGSHEN
Auditing	Management Department LICHUNZHANG
Approval	AWRONGMI

NINGBO HI-TECH ZONE VICHIN OPTICAL COMMUNICATION CO.,LTD.

June 2015

1. Application range

this Specification Prescribe Fiber Patch Cord

2. Product standard

2.1 Component specifications(Annexed Drawing 2)

2.1.1 OPTICAL CABLE (Single Mode Fiber 9/125 2.0mm)

Part	OPTICAL CABLE
TYPE	Single mode 9/125,OD 2.0mm
FIBER	ITU-T G.657A1
Material	LSZH
COLOR	Yellow

2.1.2 CONNECTOR (Standard for ϕ 3.0mm)

Type	Material	HOUSING COLOR	HOOD COLOR
LC/PC	Plastics	Blue	Blue

2.1.3 FERRULE POLISHING (GR-326-CORE)

Part	LC Type
Material	Zirconia ceramic
Radius	5 ~ 12mm
Spherical high	$\leq 60\text{nm}$
Offset	Less than 50 μm
Angle	No

2.2 Optical Characteristics

Part	PC	Note
Wavelength(nm)	1310/1550	
Insertion Loss(dB)	≤ 0.35	
Return Loss(dB)	≥ 50	
Strength of coupling mechanism(N)	50	

3. Main Inspection article and Specifications

3.1 Inspection for tangential section

3.1.1 Microscope of 200x or 400x magnification, when Inspection Main Part is Core. Especially in Cladding range(125 μm) Must have not

scratch and Alien substance influence to optical characteristic

3.1.2 Must have not chipping, Alien substance at Ferrule Edge of Out Diameter

3.1.3 Inspection standard document Annexed paper1

3.2 Optic Quality Inspection

3.2.1

Part	Standard	Inspection way
LC/PC	I/L $\leq 0.35\text{dB}$, R/L $\geq 50\text{dB}$	optical instrument

3.3 Optical Cable Surface inspection

3.3.1 Inspection of Appearance

Part	Surface level of illumination	Dent	Curve	BURR	Black Spot	Bending
LSZH, Yellow	Fine	No	Little allow	0.1mm Within 3EA under	No	No

4. Warranty of reliability

The Warranty of reliability of this Product, Should be as basically By GR-326-CORE. Especially that warranty of reliability is temperature range $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$, and particularly the high-temperature and humidity over 500 hours at (85 % and 85°C) Shall neglect that they do not rust or endure should be satisfied.

Provider is developing processes of washing production that can meet this requirement and have to do maintenance.

5. Warranty

Fault taken place within 12 months after payment of cases judged to be clearly the part of the manufacturer (provider) of responsibility within a week voluntarily exchanged for imported goods.

6. Packing

Addition consultation

7. Hazardous substances

Can apply ROHS Regulation.

3.3.1 Annexed Standard for inspection1

Standard for Inspection	
Tangential section of Connector Ferrule	
1. this Inspection apply for connector Ferrule inspection By standard	
※ Standard for Tangential section Inspection : All section(Microscope for X400/X200)	Default type

		Removable particales
		Scratches

		Defect
		Crack

(IEC61300-3-35)	A-Zone:Core-Zone	B-Zone(Cladding)	C-Zone(Adhesive)	D-Zone(Contact)	E-Zone(Outside of D)
2016.06	0 ~ 25um	25 ~ 115um	115 ~ 135um	135 ~ 250um	> 250um
Scratches	None	None > 3um	No limit	No limit	No limit
Pits	None	None limit ≤ 2um 5 from 2~5um None > 5um	No limit	None > 10um	No limit
Cracks	None	None	None	None	None
Dirts	None	None	None	None	None

Annexed Drawing 2

