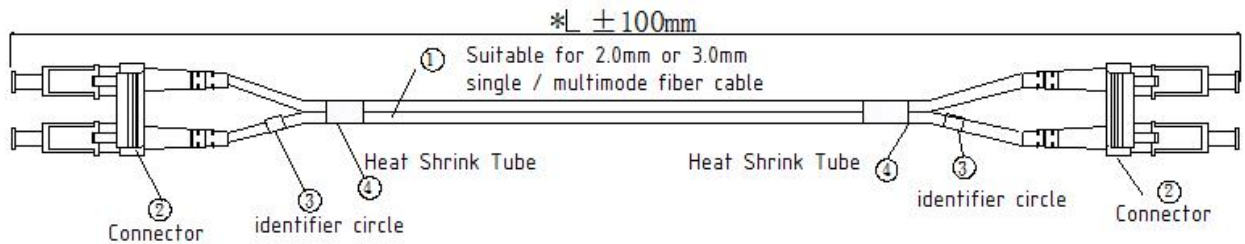


Specification

**FOR
DUPLEX CONNECTOR
PATCH CORD**

PART 1

1.Outline drawing



Duplex CONNECTOR

Description

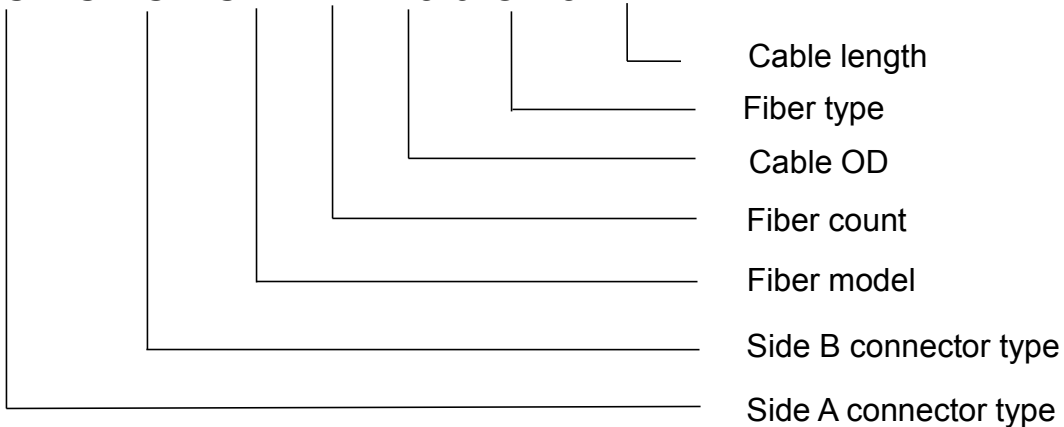
①	Fiber Optical Cable(As shown in the Part 2)
②	Connector (Customer requirement)

NOTE:

- 1.Paragraphs finished product size should meet the requirements;
- 2.All materials meet ROHS requirements
- 3.Here is the * for key size in picture

Available variants

FC/PC-LC/PC-MM-DX-3.0-OM3-*M



According to the customer requirement.

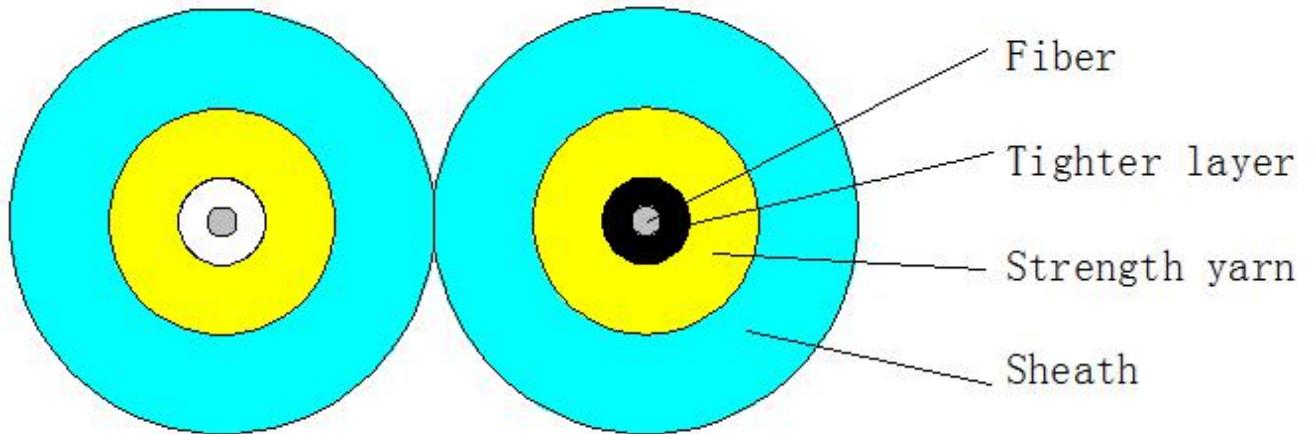
2.The connector parameters

Parameter	Unit	FC, SC, LC fiber patch cord				ST, MU		
		SM			MM	SM		MM
		PC	UPC	APC	PC	PC	UPC	PC
Insertion Loss(typical)	dB	≤0.3	≤0.3	≤0.25	≤0.3	≤0.3	≤0.3	≤0.3
Return Loss	dB	≥ 45	≥ 50	≥ 60	≥ 30	≥ 45	≥ 50	≥ 30
Operating Wavelength	nm	1310, 1510, 850						
Exchangeability	dB	≤ 0.2						
Vibration	dB	≤ 0.2						
Operating Temperature	°C	-40~75						
Storage Temperature	°C	-45~85						
Cable Diameter	mm	φ3.0, φ2.0, φ0.9						
Length	m	According to the customer requirement.						

PART 2

1.CABLE CONSTRUCTION

1.1 CROSS SECTIONAL DIAGRAM



1.2 STRUCTURE SPECIFICATION

Fiber count		2F	
Tight Fiber	OD(mm):	0.85±0.05	
	Material:	PVC	
Strength Number		Strength yarn	
Sheath	Thickness(mm):	0.3±0.05	0.45±0.05
	Material:	LSZH/PVC	
OD of cable(mm)		2.0*4.0	3.0*6.0
Net weight (kg/km)		9.2	15.5

2. Performance Parameters Of the Optical Fiber

2.1 The Optical and Geometrical Performance of Single Mode Fiber

Items	UNITS	SPECIFICATION	
		G652D	G657A
Fiber type		G652D	G657A
Attenuation	dB/km	≤ 0.4 at 1310nm ≤ 0.3 at 1550nm	
Chromatic Dispersion	ps/nm.km	≤ 3.5 at 1310nm ≤ 18 at 1550nm ≤ 22 at 1625nm	
Zero Dispersion Slope	ps/nm ² .k m	≤ 0.092	
Zero Dispersion Wavelength	nm	1300 ~ 1324	
Cut-off Wavelength (λ_{cc})	nm	≤ 1260	
Attenuation vs. Bending (60mm x100turns)	dB	(30mm radius, 100ring) ≤ 0.1 @ 1625nm	(10mm radius, 1ring) ≤ 1.5 @ 1625nm
Mode Field Diameter	μm	9.2 ± 0.4 at 1310nm	9.2 ± 0.4 at 1310nm
Core-Clad Concentricity	μm	≤ 0.5	≤ 0.5
Cladding Diameter	μm	125 ± 1	125 ± 1
Cladding Non-circularity	%	≤ 0.8	≤ 0.8
Coating Diameter	μm	245 ± 5	245 ± 5
Proof Test	Gpa	≥ 0.69	≥ 0.69

2.2 The Optical and Geometrical Performance of Multi Mode Fiber

Items	UNITS	SPECIFICATION				
		62.5/125	50/125	OM3-150	OM3-300	OM4-550
Fiber Core Diameter	μm	62.5 ± 2.5	50.0 ± 2.5	50.0 ± 2.5		
Fiber Core Non-circularity	%	≤ 6.0	≤ 6.0	≤ 6.0		
Cladding Diameter	μm	125.0 ± 1.0	125.0 ± 1.0	125.0 ± 1.0		
Cladding Non-circularity	%	≤ 2.0	≤ 2.0	≤ 2.0		
Coating Diameter	μm	245 ± 10	245 ± 10	245 ± 10		
Coat-Clad	μm	≤ 12.0	≤ 12.0	≤ 12.0		

Concentricity							
Coating Non-circularity		%	≤8.0	≤8.0	≤8.0		
Core-Clad Concentricity		μm	≤1.5	≤1.5	≤1.5		
Attenuation	850nm	dB/km	3.0	3.0	3.0		
	1300nm	dB/km	1.5	1.5	1.5		
OFL	850nm	MHz . km	≥160	≥200	≥700	≥1500	≥3500
	1300nm	MHz . km	≥300	≥400	≥500	≥500	≥500
The biggest theory numerical aperture			0.275±0.015	0.200±0.015	0.200±0.015		

3. FIBER OPTIC CABLE BENDING RADIUS

Static bending: ≥10 times than cable out diameter

Dynamic bending: ≥20 times than cable out diameter.

4. PACKAGE

1、 PE bag: 0.05*210*250MM

Netrual Lable Size : 60*40MM

2、 Carton Shipping Mark Lable Size :

Label : 90*30MM

3、 Carton : Paper K=K 440*260*310MM

4、 White Ribbon : L=90MM/160MM/230MM

According to the length of the patch cord

5、 Print words : As cable mark

6、 CARTOON MARK : None or Customer requirement

7、 Carton stacking height can not exceed 5 boxes