

# SPECIFICATION

FOR

**Duplex Round Optical Cable**

**GJFJY TYPE**

**LSZH Jacket**

Address : Perpa Ticaret Merkezi, A Blok No.516 Şişli/İstanbul | Tel : +90 212 3204030 | Fax : +90212 3200255 | e-mail : info@telkolink.com

[www.telkolink.com](http://www.telkolink.com)

© 2009 telcolink Inc. All rights reserved. Information in this document is subject to change without notice. All company names, logos, and product designs that are trademarks or registered trademarks are the property of their respective owners. 617-000175 Rev. C



Table 1. Characteristics of the Single Mode Fiber (ref. ITU-T G657A2B2)

Item	Unit	Requirement	
<b>Geometrical characteristics</b>			
Fiber		G.657A2B2	
Mode field diameter(1310nm wavelength)	µm	8.6-9.5	
Cladding diameter	µm	125.0±0.7	
Core concentricity error	µm	≤0.5	
Cladding non-circularity	%	≤1	
Coating diameter	µm	245±10	
Coating-cladding concentricity error	µm	≤12.5	
<b>Transmission characteristics</b>			
Cable cut-off wavelength	nm	≤1260	
Attenuation	wavelength 1310nm~1625nm	dB/km	≤0.4
	wavelength 1550nm	dB/km	≤0.3
<b>Macro-bending loss</b> <b>radius:7.5mm,1 circle</b>	<b>wavelength 1550nm</b>	<b>dB</b>	<b>≤0.5</b>
	<b>wavelength 1625nm</b>	<b>dB</b>	<b>≤1.0</b>
Zero-dispersion slope	ps/(nm <sup>2</sup> ·km)	≤0.092	
Polarization mode dispersion	Ps/km <sup>1/2</sup>	≤0.2	
<b>Mechanism characteristics</b>			
Proof test value	GPa	0.69	
Dynamic fatigue parameter	/	≥20	
Other parameter meet standard		ITU-T G.657	

**Application:**

Temperature range	°C	-20°C-- +60°C	
Nominal weight	g/m	6.0	
Min. Bending Radius (mm)	Install	mm	20D
Min. Bending Radius (mm)	Static	mm	10D
Max. Tension (N)	Short-term	N	100
Max. Tension (N)	Long-term	N	60
Max. Crushing Resisitance (N/100mm <sup>2</sup> )	N/100mm <sup>2</sup>		500

The true weight of optical cable may had some tolerance with the above stated value.



Temperature range

Storage or transportation: -20~60°C

Operation: -20~60 °C

### Package and shipping mark

Printing at outjacket of optical cable

White color printing words at each meter distance, standard printing content as following ,also can match the customer require for the printing content

1. Meter mark
2. Style of optical cable and fiber account
3. Manufacturer name
4. Manufacture date

Package of optical cable

Standard length is 1KM ,other length can negotiate

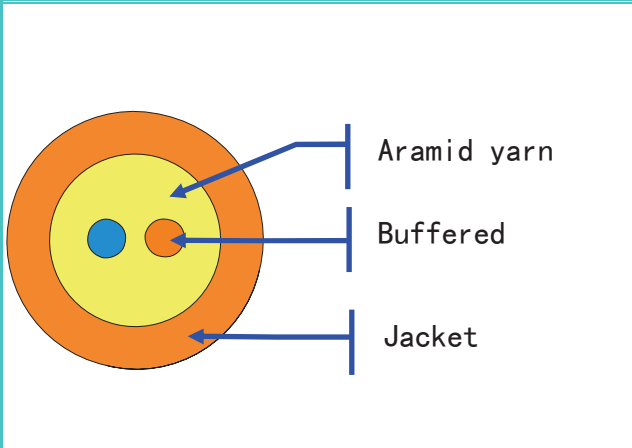
Can be packed in wooden drum or plywood drum

Wooden drum

Label will be stucked at wooden drum, content as following

1. Style of optical cable and fiber account
2. Length
3. Gross weight KGS
4. Total drums amount
5. Manufacture date

### Description

	<ol style="list-style-type: none"> <li>1 – Number of fibers             <ul style="list-style-type: none"> <li>- 2</li> </ul> </li> <li>2 – Characteristic of fiber             <ul style="list-style-type: none"> <li>- Color :Original</li> </ul> </li> <li>3 – Characteristic of buffered             <ul style="list-style-type: none"> <li>- OD: <math>0.57 \pm 0.05</math> mm</li> <li>- Thickness: <math>0.16 \pm 0.03</math> mm</li> </ul> </li> <li>4 – Aramid yarn</li> <li>5 - Out jacket             <ul style="list-style-type: none"> <li>- Material: LSZH</li> <li>- OD: <math>2.35 \pm 0.05</math> mm</li> </ul> </li> </ol>
---	--