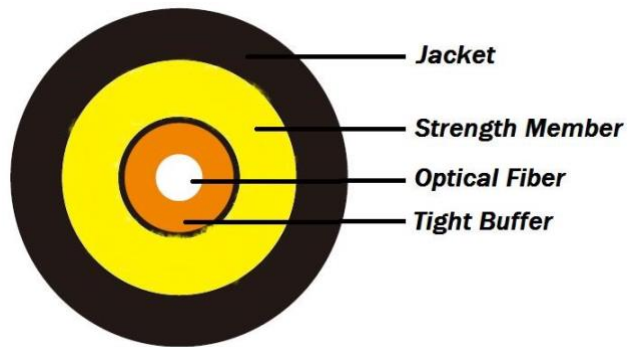


### 1 Core G.657 A2 Fiber Optic Round Cable, Span 80m (LP-RDC-A2-1/2KM)

#### 1. Profile View



#### 2. Fiber Parameters (G.657 A2)

No.	Items		Unit	Specification
				G.657 A2
1	Mode Field Diameter	1310nm	$\mu\text{m}$	$8.6 \pm 0.4$
		1550nm	$\mu\text{m}$	$9.6 \pm 0.5$
2	Cladding Diameter		$\mu\text{m}$	$125.0 \pm 0.7$
3	Cladding Non-Circularity		%	$\leq 0.8$
4	Core-Cladding Concentricity Error		$\mu\text{m}$	$\leq 0.5$
5	Coating Diameter		$\mu\text{m}$	$245 \pm 5$
6	Coating Non-Circularity		%	$\leq 3.0$
7	Cladding-Coating Concentricity Error		$\mu\text{m}$	$\leq 12.0$
8	(PMD)		Ps/km 1/2	$\leq 0.10$
9	Cable Cutoff Wavelength		nm	$\lambda_{cc} \leq 1260$
10	Zero-Dispersion wavelength		nm	1300-1322
11	Zero-Dispersion slope		Ps/(nm <sup>2</sup> .km)	$\leq 0.091$



12	Attenuation(max.)		1310nm	dB/km	≤0.36
			1383nm	dB/km	≤0.35
			1550nm	dB/km	≤0.22
			1310-1625nm	dB/km	≤0.36
13	Attenuation with bending loss	7.5mm diameter, 1 turn	1550nm	dB	≤0.40
		7.5mm diameter, 1 turn	1625nm	dB	≤0.80
		10mm diameter, 1 turn	1550nm	dB	≤0.10
		10mm diameter, 1 turn	1625nm	dB	≤0.20
		15mm diameter, 15 turn	1550nm	dB	≤0.03
		15mm diameter, 15 turn	1625nm	dB	≤0.10

### 3. Cable Parameters

Items		Specifications
Fiber	Type	G. 657 A2
	Dimension	250µm±15µm
	Color	Natural
Tight Buffer	Material	LSZH
	Color	Blue
	Dimension	0.90±0.05mm
Strength Member	Material	Kevlar Aramid Yarn
	Color	Yellow



Outer Jacket	Dimension	3.0 ±0.1mm
	Material	LSZH
	Color	Black
Marking	Material	Ink Jet
	Color	White

## 4. Mechanical and Environmental Characteristics

Items	Unit	Specifications	
Tension (Long Term)	N	400	
Tension (Short Term)	N	700	
Crush (Long Term)	N/100mm	1000	
Crush (Short Term)	N/100mm	2200	
Min. Bend Radius (Dynamic)	mm	30	
Min. Bend Radius (Static)	mm	15	
Items	Standard	Test Method	Test result
Tension Loading Test	IEC 60794-1-2 E1	No less than 50 meters tension load: 700N Duration time: 1 Min	Additional attenuation: ≤0.10dB No damage to outer jacket and inner elements
Crush/Compression Test	IEC 60794-1-2 E3	Length: 100mm Crush Load:700N Duration time:1 Min	Additional attenuation: ≤0.10dB No damage to outer jacket and inner elements
Impact Resistance Test	IEC 60794-1-2 E4	Impact energy: 1J Radius:12.5mm Impact points:3 Impact number:1	Additional attenuation: ≤0.10dB No damage to outer jacket and inner elements



Repeated Bending Test	IEC 60794-1-2 E6	Bending radius 20 x diameter of cable Cycles: 30 cycles	Additional attenuation: ≤0.10dB No damage to outer jacket and inner elements
Torsion/Twist Test	IEC 60794-1-2 E7	Sample length 2m Angles: ±180 degree Cycles:5	Additional attenuation: ≤0.10dB No damage to outer jacket and inner elements

## 5. Operation Condition

Items		Characteristics
Temperature	Operating	-30 ~ +60 °C
	Installation	-30 ~ +60°C
Sinking		1%
Span		MAX Span 80meters
Wind Load		Maximum wind speed: 50km/h

## 6. Packing and Drum

Standard packing length is 2000meters.

Cables are packed in carton, coiled on Bakelite & wooden drum. During transportation, right tools should be used to avoid damaging the package and to handle with ease. Cables should be protected from moisture; kept away from high temperature and fire sparks; protected from over bending and crushing; protected from mechanical stress and damage.

## 7. Regulatory Compliance / Certificate

ISO 9001:2008 Designed, manufactured and/or distributed under this quality management system

IEC 60794-1 Optical fiber cables-Generic specification - Mechanical tests methods

\*\*\*Products shown on this specification sheet are subject to change without any prior notice.