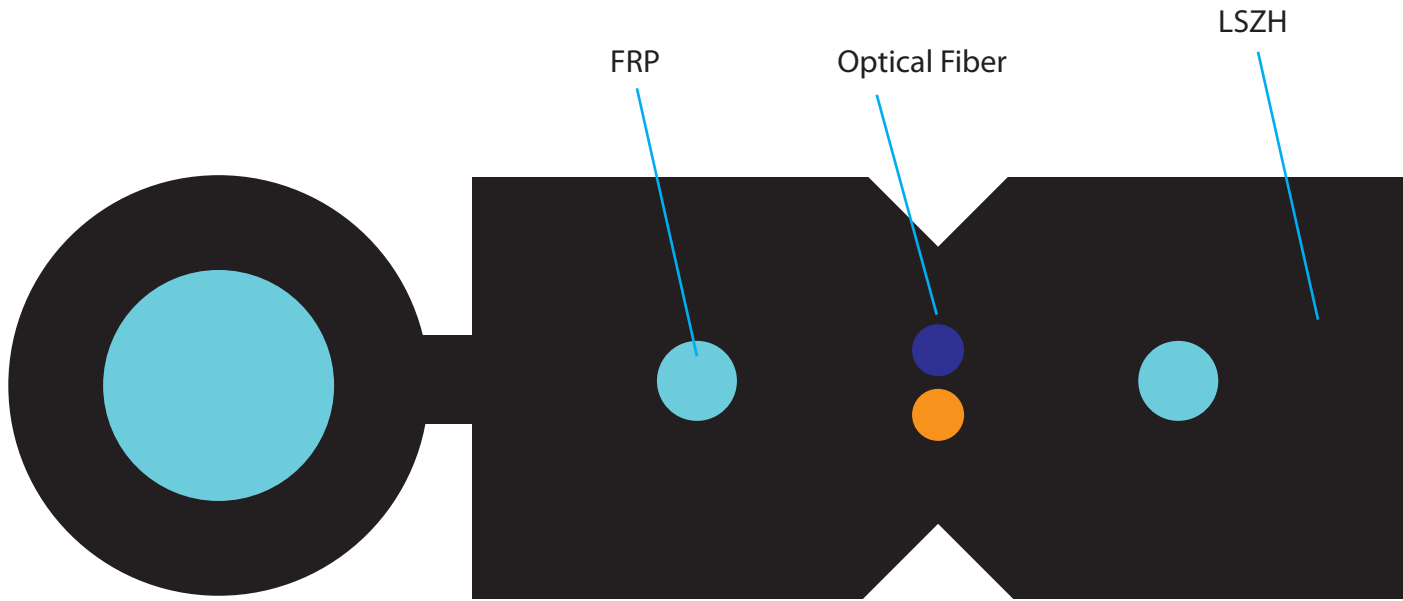


1. Cable Construction



1.1 Structure Specifications

Fiber Count		1	2	4
Fiber	OD(um):	245±10		
Cable Strength Messenger Wire		1.0mm steel wire		
Strength Members		0.5mm FRP		
Sheath Material		LZSH		
Sheath Thickness		≥ 0.4		
OD of Cable (mm)		2.0*5.0±0.2		
Net Weight (kg/km)		19		
Maximum Tensile Loading		500N		

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1.2 Tight Buffer Color Code

NO.	1	2	3	4
Color	Blue	Orange	Green	Brown

2. Performance Parameters of the Optical Fiber

	UNITS	SPECIFICATION
Fiber Type		G657A
Attenuation	dB/km	1310nm ≤ 0.4 1550nm ≤ 0.3
Chromatic Dispersion	ps/nm.km	1310nm ≤ 3.5 1550nm ≤ 18 1625nm ≤ 22
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	(10mm radius, 1ring) ≤ 1.5 @ 1625nm
Mode Field Diameter	μm	9.2±0.4 at 1310nm
Core-Clad Concentricity	μm	≤ 0.5
Cladding Diameter	μm	125±1
Cladding Non-circularity	%	≤ 0.8
Coating Diameter	μm	245±5
Proof Test	Gpa	≥ 0.69

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4. Mechanical and Environmental Performance of the Cable

NO.		TEST METHOD	ACCEPTANCE CRITERIA
1	Tensile Loading Test	#Test method:IEC 60794-1-E1 -. Long-tensile load: 0.5 times the short-term pulling force -. Short-tensile load: reference to clause 2.1 -. Cable length: ≥50m	-. Attenuation increment@1550nm:≤0.4dB -. No jacket cracking and fiber breakage
2	Crush Resistance Test	#Test method:IEC 60794-1-E3 -.Long-tensile load: 500 N/100mm -.Short-tensile load: 1000 N/100mm Load time: 1 minute	-. No fiber breakage
3	Impact Resistance Test	#Test method:IEC 60794-1-E4 -.Impact height: 1m -.Impact weigh: 100g -.Impact point: ≥3 -.Impact frequency: ≥1/point	-. No fiber breakage
4	Repeated Bending	#Test method:IEC 60794-1-E6 -.Mandrel diameter: 30H -.Subject weight: 2kg -.Bending frequency: 200 times -.Bending speed: 2s/time	-. No fiber breakage
5	Torsion Test	#Test method:IEC 60794-1-E7 -.Length: 1m -.Subject weight: 2kg -.Angle: ±180 degree -.Frequency: ≥10/point	-. No fiber breakage
6	Temperature Cycling Test	#Test method:IEC 60794-1-F1 -.Temperature steps: +20°C, -40°C	-. Attenuation increment@1550nm:≤0.3dB

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		+70°C, +20°C -. Testing Time: 8 hours/step -. Cycle index: 2	-. No jacket cracking and fiber breakage
7	Temperature	Operating: -20°C ~ +70°C Store/Transport: -40°C ~ +70°C Installation: -40°C ~ +70°C	

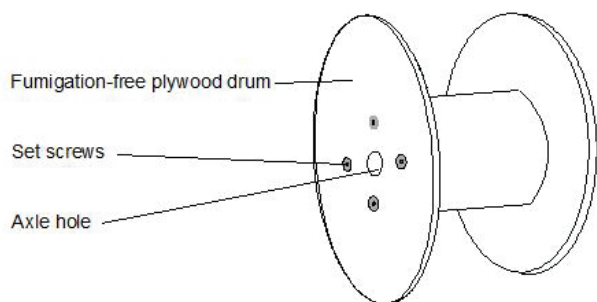
5. Fiber Optic Cable Bending Radius

Static bending: ≥10 times than cable out diameter

Dynamic bending: ≥20 times than cable out diameter

6. Package

Not allowed two length units of cable in one drum,. Two ends should be packed inside drum, reserve length of cable not less than 1 meter.



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