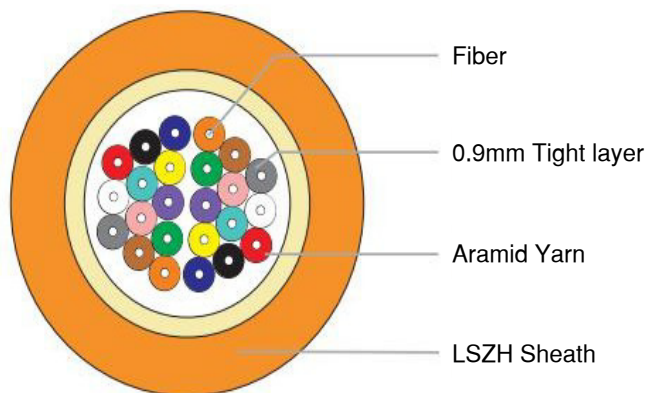


Cross Sectional Diagram



Structure Specification

Fiber Count		4	6	8	12	24
Tight Fiber	OD(mm):	0.85 ± 0.05				
	Material:	PVC				
Strength Number		Aramid yarn				
Sheath Material		LSZH				
Sheath Thickness (mm)		0.55 ±0.1	0.6 ±0.1	0.6 ±0.1	0.9 ±0.1	1.1 ±0.1
OD of Cable (mm)		4.0 ±0.1	4.5 ±0.1	5.0 ±0.1	6.0 ±0.1	8.5 ±0.1
Net Weight (kg/km)		14 ±2	18 ±2	22 ±2	36 ±2	67 ±2
Max.Tensile loading (N)		150	200	200	300	600

Tight Buffer Color Code

NO.	1	2	3	4	5	6	7	8	9	10	11	12
Tube Color	Blue	Orange	Green	Brown	Slate	White	Red	Black	Yellow	Violet	Pink	Aqua

Performance Parameters of Single mode Fiber

LTEMS	UNITS	SPECIFICATION	
		G652D	G657A
Fiber Type		G652D	G657A
Attenuation	dB/km	1310nm ≤ 0.4 1550nm ≤ 0.3	
Chromatic Dispersion	ps/nm ² .km	1310nm ≤ 3.5 1550nm ≤ 18 1625nm ≤ 22	
Zero Dispersion Slope	ps/nm ² .km	≤ 0.092	
Zero Dispersion Wavelength	nm	1300~1324	
Cut-off Wavelength(λ _{cc})	nm	≤ 1260	
Attenuation vs. Bending (60mm x 100turns)	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

Performance Parameters of Mul Mode Fiber

LTEMs	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 Concentricity	μm	≤12.0	≤12.0	≤12.0			
Fiber Core Diameter	%	≤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			

Bending Radius

Static bending: ≥10 times than cable out diameter.

Dynamic bending: ≥20 times than cable out diameter.