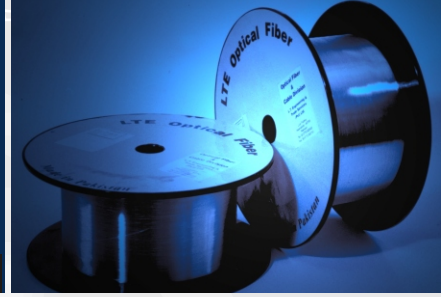


Single Mode Optical Fiber

Fibers



FEATURES

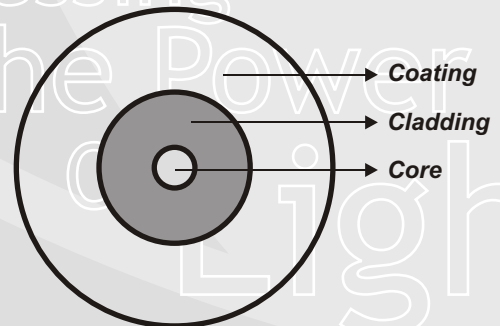
Matched clad step index design

Low loss operation at 1310 nm and 1550 nm

Dual UV - cured acrylate coating for low temperature sensitivity

Excellent bend loss performance at 1550 nm

Conforming to ITU-T G652 Standard



LT ENGINEERING

Pioneers Of Optical Fiber In Pakistan

Single Mode Optical Fiber

Test Parameters	Specifications
Geometrical Properties	
Cladding diameter	125 ± 1.0 µm
Cladding non-circularity	< 1.0 %
Core / cladding concentricity error	≤ 1.0 µm
Coating diameter (un-colored)	245 ± 10 µm
Coating / cladding concentricity error	≤ 10.0 µm
Mode field diameter at 1310 nm	(8.6 - 9.5) µm
Mechanical Properties	
Fiber proof test level	0.70 Gpa 100 (1%) (kpsi)
Operating temperature range	-60 to +85 °C
Optical Properties	
Attenuation	
Grade A (1310 / 1550)	≤ 0.33 / 0.20 dB / km
Grade B (1310 / 1550)	≤ 0.35 / 0.22 dB / km
Grade C (1310 / 1550)	≤ 0.40 / 0.25 dB / km
Cut off wavelength	1180 - 1330 nm
Point discontinuities at 1310 & 1550 nm	≤ 0.10 dB
Zero dispersion wavelength λ_0	1300 - 1322 nm
Dispersion at 1550nm	< 18 ps / nm - km
Zero dispersion slope	≤ 0.092 ps / nm ² - km
Polarization mode dispersion coefficient at 1310 & 1550 nm	≤ 0.20 ps / √km
Loss performance at 1550 nm	≤ 0.1 dB loss increase with 100 turns around a mandrel of 30 mm radius

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& Trade Services (Pvt) Ltd.**
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