

Radiation tolerant fiber for space applications

Parameters

Cutoff Wavelength	< 1440 nm
Attenuation @1550 nm	< 0.5 dB/km
Beat Length @633 nm	< 1.6 mm
Beat Length @1550 nm	< 3.9 mm
Mode Field Diameter @1550nm	10.5 ± 0.5 μm
Numerical Aperture	0.12
Core/Clad Concentricity	< 0.5 μm
Cladding Diameter	125 ± 1 μm
Coating Diameter	245 ± 15 μm
Proof Test Level	100 kpsi

Design parameters

Operating Wavelength	1500 – 1600 nm
Design	Panda
Core Ellipticity	< 15 %
Holding Parameter @1550 nm	< 1.10 ⁻⁵ m ⁻¹
Coating Material	Dual Acrylate
Typical RIA @1550 nm for 26 krad (γ ray)	< 0.14 dB/km/krad
Operating Temperature Range	-40 to +85°C

