SPECIALTY OPTICAL FIBER

IXF-SPUN-1310-80

Spun Fiber

By spinning the preform during the fiber drawing, it is possible to preserve circular polarization on Polarization Maintaining Optical Fibers that are originally highly birefringent.

Exail is offering fibers for 1310 and 1550 nm applications with an optimized spinning rate to minimize the thermal and vibrational dependence of the output polarization.

Elliptical core design is available for low temperature dependence applications.

Benefits & Features

- Elliptical Core and tiger designs available
- Wavelength: 1310 or 1550 nm
- Cladding diameter: 80 or 125 µm
- Matched PM fiber for current sensors available

Applications

- Fiber optics current sensors

Parameters

Cutoff wavelength (nm)	< 1250
Attenuation @1310nm (dB/km)	< 5
Circular beat length @1310nm (cm)	10 ± 4
Linear phase beat length of unspun fiber @1310nm (mm)	8 ± 1.7
Mode field diameter @1310nm (µm)	7 ± 0.5
Numerical aperture	0. 15 ± 0.02
Core/Clad concentricity (µm)	< 1
Cladding diameter (µm)	80 ± 2
Coating diameter (µm)	170 ± 5
Proof test level (kpsi)	100

Design parameters

Operating wavelength (nm)	1310
Design	Tiger
Core shape	Round
Spin pitch (mm)	2.5
Coating material	Dual acrylate
Operating temperature range (°C)	-40 to +85

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IXF-SPUN-1310-80_edB_30042018

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