SPECIALTY OPTICAL FIBER

IXF-FOCS-1310-125-EC

Polarization-Maintaining Fiber for Current Sensors

The IXF-FOCS family of fibers consists of advanced performances Polarization Maintaining Fibers specially designed for Fiber Optic Current Sensors.

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
- Optimized for low thermal dependence

Applications

- Fiber optic current sensor

Parameters

Cutoff wavelength (nm)	< 1250
Attenuation @1310nm (dB/km)	< 10
Group beat length @1310nm (mm)	4 ± 2
Phase beat lenght @1310nm (mm)	9 ± 2
Mode field diameter @1310nm (µm)	4 ± 1
Numerical aperture	0. 24 ± 0.02
Core/Clad concentricity (µm)	< 1
Cladding diameter (µm)	125 ± 1
Coating diameter (µm)	245 ± 15
Proof test level (kpsi)	100

Design parameters

Operating wavelength (nm)	1310
Design	E-Core
Holding parameter @1550nm (m^{-1})	< 1.10^{-5}
Coating material	Dual acrylate
Operating temperature range (°C)	-40 to +85

PSD-L-Q-E-086 L

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