

SPECIALTY OPTICAL FIBER

IXF-FOCS-1310-80-DCO

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)	< 1
Beat length @1310nm (mm)	< 3.5
Mode field diameter @1310nm (μm)	7 ± 0.5
Numerical aperture	0.15 ± 0.02
Core/Clad concentricity (μm)	< 1
Cladding diameter (μm)	80 ± 1
Coating diameter (μm)	170 ± 2
Proof test level (kpsi)	100

Design parameters

Operating wavelength (nm)	1310
Design	Tiger
Core shape	Round
Holding Parameter @1550nm (m^{-1})	$< 1.10^{-5}$
Coating material	Dual acrylate
Operating temperature range ($^{\circ}\text{C}$)	-40 to +85

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