

SPECIALTY OPTICAL FIBER

# IXF-FOCS-1310-125

## 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  $\mu\text{m}$
- Optimized for low thermal dependence

### Applications

- Fiber optic current sensor

### Parameters

Cutoff wavelength (nm)	< 1250
Attenuation @1310nm (dB/km)	< 2
Beat length @1310nm (mm)	< 3.5
Mode field diameter @1310nm ( $\mu\text{m}$ )	$7 \pm 0.5$
Numerical aperture	$0.15 \pm 0.02$
Core/Clad concentricity ( $\mu\text{m}$ )	< 1
Cladding diameter ( $\mu\text{m}$ )	$125 \pm 1$
Coating diameter ( $\mu\text{m}$ )	$245 \pm 15$
Proof test level (kpsi)	100

### Design parameters

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

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