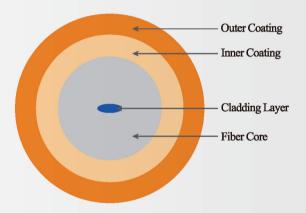
Elliptical Core Polarization-Maintaining Fiber

Product Description

YOEC elliptical core polarization-maintaining fiber has excellent temperature stability and birefcoilence performance, so it can be widely used in fiber optic gyroscope, current transformer and other polarization related devices. The YOEC elliptical core fiber improves the uniformity and birefcoilence of the fiber by improving the elliptical core structure and optimizing the core and cladding structure of the fiber. The elliptical core polarization-maintaining fiber belongs to the geometric birefcoilent polarization-maintaining fiber, which is less affected by ambient temperature and has better temperature stability.

Optical Fiber Structure



Product Application

- Fiber optic gyroscope
- Optical fiber current transformer
- Fiber laser and amplifier

Product Features

- Low loss and high bending properties
- Good geometric uniformity
- · High stability and reliability in use
- Temperature insensitive



Product Specification

Properties	Unit	Product Specification				
Product Type	/	ECF13-125-U25	ECF13-80-U16	ECF15-80-U13	ECF15-80-U16	
		Optical Properties				
Working Wavelength	nm	1310	1310	1550	1550	
CutoffWavelength	nm	1100~1290	1100~1290	1290 ~ 1520	1290 ~ 1520	
Mode Field Diameter	μm	6.0 ± 1.0	6.0 ± 1.0	6.5 ± 1.0	6.5 ± 1.0	
Attenuation	dB/km	≤1.0	≤ 1.0	≤1.0	≤ 1.0	
Beat Length	mm	3.0~80.0	3.0~80.0	3.0~80.0	3.0~80.0	
Typical Crosstalk Value	dB	≤-25	≤-25	≤-25	≤ -25	
		Geometric Properties				
Cladding Diameter	μm	125.0 ± 1.0	80.0 ± 1.0	80.0 ± 1.0	80.0 ± 1.0	
Coating Type	/					
Coating Diameter	μm	245.0 ± 3.0	168.0 ± 3.0	135.0 ± 2.0	168.0 ± 3.0	
Cladding Out-of-roundness	1	≤5.0%	≤5.0%	≤5.0%	≤5.0%	
Core Concentricity	μm	≤ 1.0	≤ 1.0	≤ 1.0	≤ 1.0	
		Environmental and Mechanical Properties				
Operation Temperature Range	°C	-45 ~ +85	-45 ~ +85	-45~+85	-45~+85	
Screening Tension	kpsi	100	100	100	100	

Customized Information

- Fiber cladding diameter and coating diameter can be customized according to customer requirements.
- The ratio of major and minor axes of optical fiber core can be customized according to customer requirements, and the maximum ratio is 4.
- The optical fiber beat length can be customized according to customer requirements.