



Spun Fibre (SF)

YOFC's spun fibre is manufactured by spinning a polarization maintaining preform during the fibre drawing process, featuring high mechanical reliability and geometric consistency. The preform is deposited through Plasma Chemical Vapor Deposition (PCVD) process, which enables a precise refractive index profiles and dimensional tolerances of the fibre. Excellent environmental immunity and circular polarization-maintenance performance are obtained by design to meet the requirement of applications, such as fibre optic current transformer (FOCT).

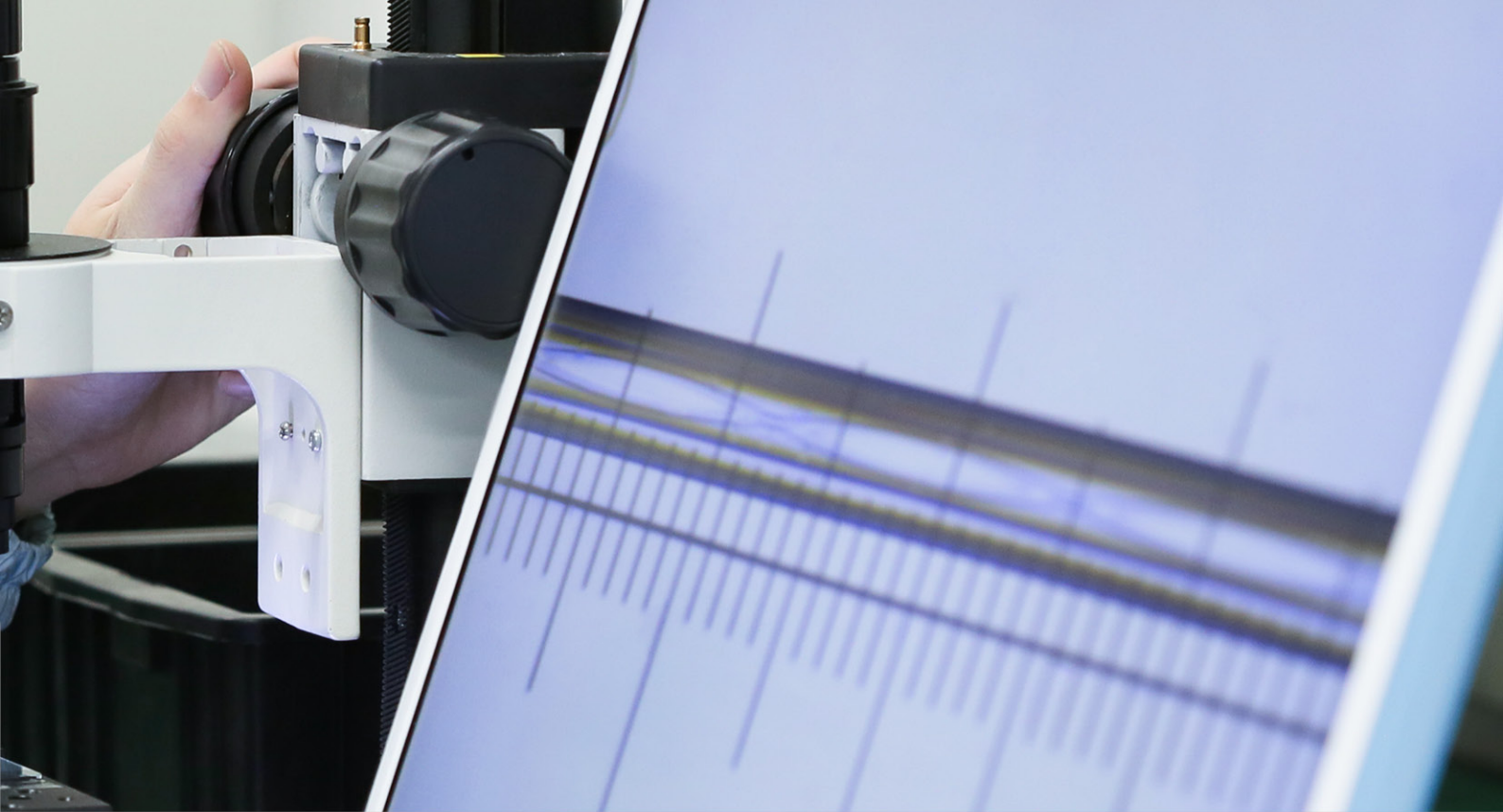
With dual-layer, UV-cured Acrylate coating, YOFC spun fibre has high environmental stability performance over the temperature range of -45°C to $+85^{\circ}\text{C}$ (-49°F to $+185^{\circ}\text{F}$).

Characteristics

- Excellent and stable optical performance
- Optimized for current sensing
- High environmental stability and reliability
- Low attenuation

Application

- Fibre optic current transformer
- DC and AC current sensors
- Polarimetric sensors



Specifications

Fibre Type	SH 1310_125-5/250
Part No.	SH 1016-A
Optical Properties	
Operating Wavelength (nm)	1310
Cut-off Wavelength (nm)	1020~1260
Mode Field Diameter (μm)	$7 \pm 1.0 @ 1310\text{nm}$
Attenuation (dB/km)	$\leq 2.0 @ 1310\text{nm}$
Beat Length (mm)	$9 \sim 14 @ 1310\text{nm}$
Geometrical Properties	
Spin Pitch (mm)	5 ± 0.2
Cladding Diameter (μm)	125.0 ± 1.0
Coating Diameter (μm)	245 ± 7
Cladding Non-circularity (%)	≤ 1.0
Core-Cladding Concentricity (μm)	≤ 1.0
Coating Type	Dual-layer/UV-Acrylate
Mechanical properties	
Operating Temperature ($^{\circ}\text{C}$)	$-45 \sim +85$
Proof Test (kpsi)	50 or 100

www.yofc.com



This datasheet can only be a reference, but not a supplement to the contract. Please contact our sales people for more detailed information