

# Photosensitive Select Cut-Off Single-Mode Fiber



Coherent PS1060 photosensitive fiber is designed for use in writing fiber Bragg gratings for pump stabilizers or diode output wavelengths in the 980 to 1060 nm range. PS1060 is also used in coupler applications. This photosensitive fiber provides a cost-savings for grating-writing because customers can write highly repeatable, quality gratings in a short time.

## Typical Applications

- Pump stabilizers
- Diode pigtailing
- Couplers

## Features & Benefits

- High photosensitivity — Enables low cost, high yield grating fabrication
- Mode matched to standard transmission fiber — Low splice loss

## Optical Specifications

Operating Wavelength	980 – 1060 nm
Core NA	0.130
Mode Field Diameter	$6.2 \pm 0.8 \mu\text{m}$ @ 1060 nm
Cutoff	$920 \pm 50 \text{ nm}$
Core Attenuation	$\leq 20.0 \text{ dB/km}$ @ 1060 nm

## Geometrical & Mechanical Specifications

Cladding Diameter	$125.0 \pm 1.5 \mu\text{m}$
Core Diameter	$5.0 \mu\text{m}$
Coating Diameter	$245.0 \pm 15.0 \mu\text{m}$
Coating Concentricity	$< 5.0 \mu\text{m}$
Core/Clad Offset	$\leq 0.50 \mu\text{m}$
Coating Material	Acrylate
Operating Temperature Range	$-55 \text{ to } 85 \text{ }^\circ\text{C}$
Short Term Bend Radius	$\geq 12 \text{ mm}$
Long Term Bend Radius	$\geq 25 \text{ mm}$
Proof test Level	$\geq 100 \text{ kpsi}$ ( $0.7 \text{ GN/m}^2$ )

## PS1060



Nufern • 7 Airport Park Road, East Granby, CT 06026 • 860.408.5000 • Toll-free 866.466.0214 • Fax 860.844.0210 • Email: [tech.sales@coherent.com](mailto:tech.sales@coherent.com)  
[www.coherent.com](http://www.coherent.com) ; [www.shop.coherent.com](http://www.shop.coherent.com) • Coherent products are manufactured under an ISO 9001:2008 certified quality management system.



Custom developed fiber (FUD) specifications are subject to change without notice. Other configurations such as alternative form factors, optimized cut-off and UV cured color coating may be available. Let us know how Coherent can assist with your requirements.

NU0021- 11/12/2020