# Ultra-High NA Select Cut-Off Fiber



Nufern Ultra-High NA fibers are excellent bridge fibers between high NA waveguides and low NA transmission fiber. Ultra-High NA fibers provide excellent coupling efficiencies to high NA waveguides. In addition, the composition of Ultra-High NA fibers are tailored to thermally expand the core during splicing thus achieving lower splice loss to transmission fiber.

### **Typical Applications**

#### **Features & Benefits**

- Fluoride and other non-silica fibers
- Planar Waveguides
- · Fiber tails for high NA sources
- High numerical aperture Bend insensitive fiber for miniature packages
- Thermally expandable core Low splice loss to transmission fiber
- Small Mode Field Diameter High coupling efficiency with Planar Waveguides

### **Optical Specifications**

#### PS-GSF-3/125

Operating Wavelength

980 - 1600 nm 0.280

Core NA

5.0 ± 1.0 µm @ 1550 nm

Mode Field Diameter Cutoff

 $920 \pm 50 \text{ nm}$ 

## **Geometrical & Mechanical Specifications**

Cladding Diameter Core Diameter Coating Diameter Coating Concentricity Core/Clad Offset Coating Material Operating Temperature Range

 $125.0 \pm 1.0 \, \mu m$ 

3.0 µm

 $245.0 \pm 15.0 \, \mu m$ 

 $< 5.0 \ \mu m$ 

 $\leq 0.50 \, \mu m$ 

UV Cured, Dual Acrylate

-40 to 85 °C

Prooftest Level

 $\geq$  100 kpsi (0.7 GN/m<sup>2</sup>)



The active version of this fiber is also available

7 Airport Park Road, East Granby, CT 06026 • 860.408.5000 • Toll-free 866.466.0214 • Fax 860.844.0210 E-mail info @ nufern.com • www.nufern.com Nufern products are manufactured under an ISO 9001:2008 certified quality management system.

