



FG010LDA

### Description

FG010LDA fiber is specifically designed for applications such as laser projection based technologies as well as advanced sensing applications. These fibers provide ultra-high stability in laser transmission.

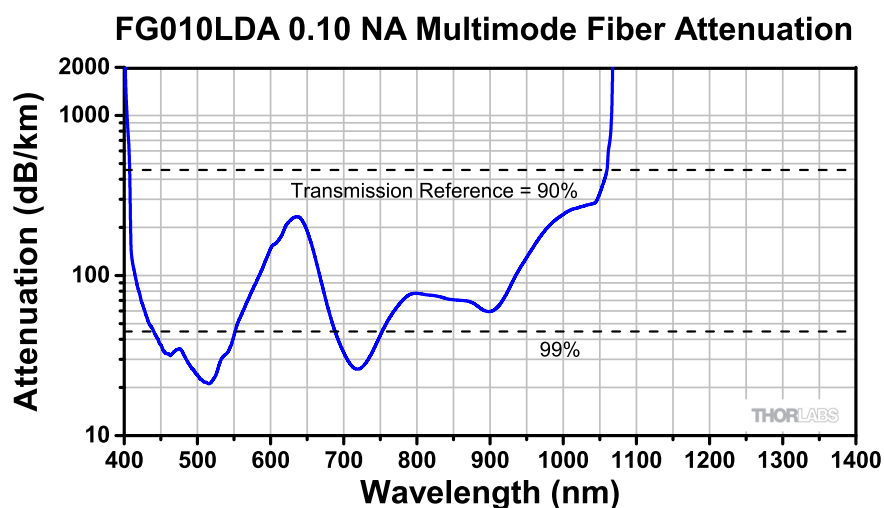
The fiber is protected with an enhanced coating material that guarantees long-term performance and reliability. The dual layer acrylate material is easy to use, insensitive to tight bending radii, and easy to strip, leaving no residue.

### Specifications

Geometrical & Mechanical	
Cladding Diameter	$125 \pm 2.0 \mu\text{m}$
Coating Diameter	$245 \pm 10 \mu\text{m}$
Core Diameter	$10 \pm 3.0 \mu\text{m}$
Core/Clad Concentricity	$<1.0 \mu\text{m}$
Coating	Two-layer Acrylate
Operating Temperature	$-60$ to $85^\circ\text{C}$
Proof Test Level	$\geq 100$ kpsi

Optical	
Numerical Aperture	$0.100 \pm 0.015$
Operating Wavelength	400 to 550 nm and 700 to 1000 nm

### Performance Plot



The dashed lines on this graph are benchmarks. Each is calculated for a one meter long hypothetical reference fiber that transmits the noted percentage of input light. As an example, a 1 m long fiber that transmits 90% of input light has an attenuation of 0.458 dB/m, which is equivalent to 458 dB/km.