

SCF-UN-109/125-22

Single-Clad Passive Fiber



This fiber features excellent geometrical properties and is ideal for manufacturing passive components used in high-power fiber lasers. As it matches industry standards, this fiber is well-suited for the fiber coupling of single-emitter diode lasers.

Features & Benefits

- Compatible with industry-standard active fibers
- Low background losses
- Excellent geometrical properties

Applications

- Passive component manufacturing
- Fiber coupling of single-emitter diode lasers
- Fiber lasers and amplifiers
- Laser cutting and welding

Specifications

Optical

Numerical Aperture - Core	0.22 ± 0.02
Background Loss @ 1200 nm (dB/km)	< 50

Geometrical & Mechanical

Core Diameter (µm)	109 ± 3
Cladding Diameter (µm)	126 ± 2
Core/Cladding Concentricity Error (µm)	1.0
Coating Diameter (µm)	245 ± 10
Proof Test (kpsi)	≥ 100

Environmental

Operating Non-Condensing Humidity (%)	5 - 85
Operating Temperature (C°)	0 - 70
Storage Non-Condensing Humidity (%)	5 - 85
Storage Temperature (C°)	-40 - 85