



Products

- Lasers
- Spectrum Analysis
- Laser Application Systems
- Laser Measurement & Safety
- Laser Marking
- Laboratory Instruments
- Optics & Coatings
- Components & Accessories
- Fiber-Coupled LEDs
- Customized Products

Components & Accessories

- Laser Diode
- Laser Optics
- Fiber for Laser Coupling
- Beam Expander
- AOM and Shutter
- Multi-function Optical System
- Variable Attenuator
- Laser Goggles

<<More

Customer Service

- TTL or Analog Modulation
- Fiber Coupling
- Coating Service
- Laser Marking Service
- Complete Solution

Contact CNI

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Single-mode Fiber



CNI pure silica core fibers are optimized for use at visible wavelengths from 400 up to 1550 nm. The performance fibers were developed for applications such as RGB components requiring couplers, delivery needs. The pure silica core fibers were designed for more demanding applications that require low attenuation and higher resistance to radiation and color center formation compared to germanium-



OPTICAL SPECIFICATIONS

Operating Wavelength	400–550 nm	460–600 nm	630–860 nm
Mode Field Diameter	2.9 μm @ 405 nm (1/e ² fit - near field, nominal value) 3.2 ± 0.5 μm @ 460 nm (1/e ² fit - near field)	3.4 ± 0.5 μm @ 460 nm	4.2 ± 0.5 μm @ 630 nm
Second Mode Cut-Off	370 ± 20 nm	425 ± 25 nm	590 ± 30 nm
Attenuation	≤ 30 dB/km @ 460 nm	≤ 30 dB/km @ 460 nm	≤ 10 dB/km @ 630 nm
Core Numerical Aperture (nominal)	0.12	0.12	0.12

GEOMETRICAL & MECHANICAL SPECIFICATIONS

Clad Diameter	125.0 ± 1.0 μm	125.0 ± 1.0 μm	125.0 ± 1.0 μm
Coating Diameter	245 ± 15 μm	245 ± 15 μm	245 ± 15 μm
Core-Clad Concentricity	< 0.5 μm	< 0.5 μm	< 0.5 μm
Coating/Clad Offset	≤ 5 μm	≤ 5 μm	≤ 5 μm
Coating Material	UV Cured, Dual Acrylate	UV Cured, Dual Acrylate	UV Cured, Dual Acrylate
Core Type	Pure Silica	Pure Silica	Pure Silica
Fiber connector	FC/PC	FC/PC	FC/PC
Operating Temperature	-55 to +85 °C	-55 to +85 °C	-55 to +85 °C
Short-Term Bend Radius	≥ 6 mm	≥ 6 mm	≥ 6 mm
Long-Term Bend Radius	≥ 13 mm	≥ 13 mm	≥ 13 mm

Single-mode Fiber Combiner



Type	Fused biconical taper
Standard Operating Wavelength	532 nm
Power Range	Normally< 100 mW
Protecting cover	Bare/ PVC
Input Channel Quantity	2, 3 (others optional)
Fiber Connector	FC/ APC
Core Numerical Aperture (nominal)	0.12
Length	0.8m, 1m, 1.5m...

For other operating wavelengths, please send e-mail to sales@cnilaser.com

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