

Company

UV/VIS Quartz/Quartz Fibers
 VIS/IR Quartz/Quartz Fibers
 Quartz/Quartz Tapered Fibers

Fiber Bundles
 Laser Fibers
 Fiber rods

Hard Plastic Clad Silica Fibers
 Medical Laser Delivery Systems
 Side Light Quartz Fibers

Plastic Clad Silica Fibers
 Silica Image Fibers
 Fused Silica Capillaries

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VIS/IR Quartz/Quartz Fibers

Features

- Superior transmission in the VIS/IR wavelength range
- Ultra low OH- fiber available
- Laser damage resistant
- Radiation resistant
- Specialty coatings available for high temperatures, high vacuum and harsh chemicals environments
- Biocompatible materials
- Sterilizable by ETO, e-beam, gamma radiation
- Higher transmission than PCS-Fibers between 1500 nm and 2600 nm

Pagenavigation

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ISO 9001
 + 13485
 certificate

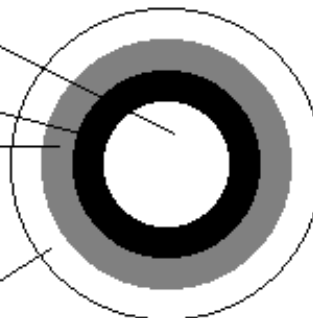
Fiber design

Pure fused silica core
 (low OH⁻)

Fluorine doped fused
 silica cladding

Acrylate coating (-40°C to 85°C)
 Silicone coating (-40°C to 150°C)
 Polyimide coating (-190°C to 385°C)

Jacket: Nylon (-40°C to 100°C)
 Tefzel (-40°C to 150°C)
 Acrylate (-40°C to 85°C)



Fiber properties

- Step index profile
- Core/clad ratio: 1.1, 1.2, 1.4, 2.4
- Numerical aperture: 0.22 ± 0.02
- Proof test level: 70 kpsi
- Minimum bend radius:
100 times the clad radius (momentary)
600 times the clad radius (long term)
- Laser damage threshold:
> 5 J/mm² (Nd:YAG, 1 ms pulse at 1060 nm)
> 10 MW/mm² (Nd:YAG, cw at 1060 nm)

Options

- Numerical apertures: 0.10, 0.26, 0.35
- Stainless steel or metal/silicone sheath
- Connectors (SMA, FC/PC, ST, DIN)

Applications

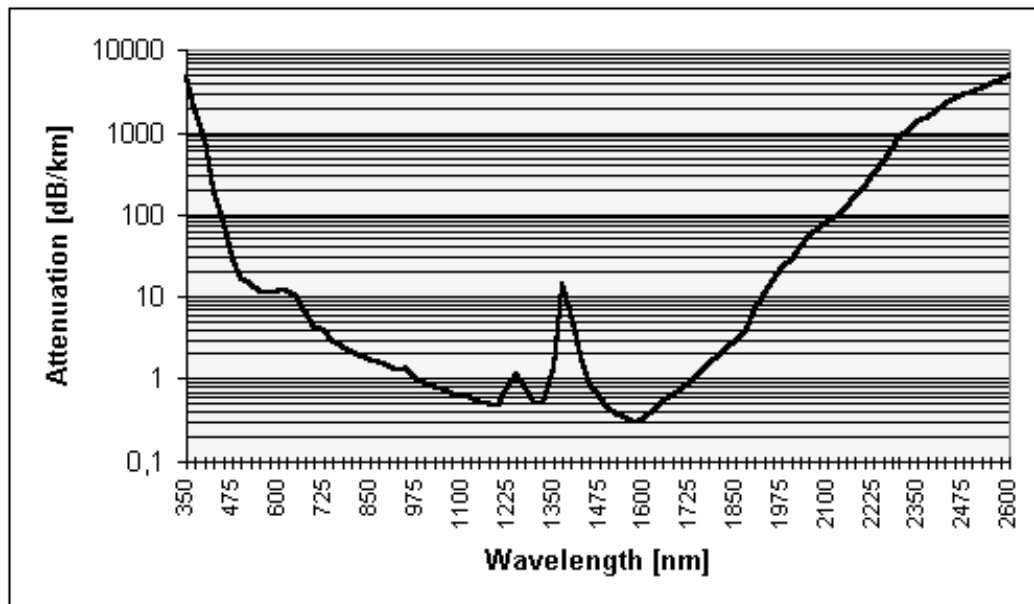
Medical

- Laser surgery
- Ophthalmology
- Photodynamic therapy

Industrial/Scientific

- Optical pyrometers
- Spectroscopy
- Thomson scattering
- Laser marking
- Laser welding/soldering
- Sensors
- Aircrafts/Spacecrafts

Spectral attenuation



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