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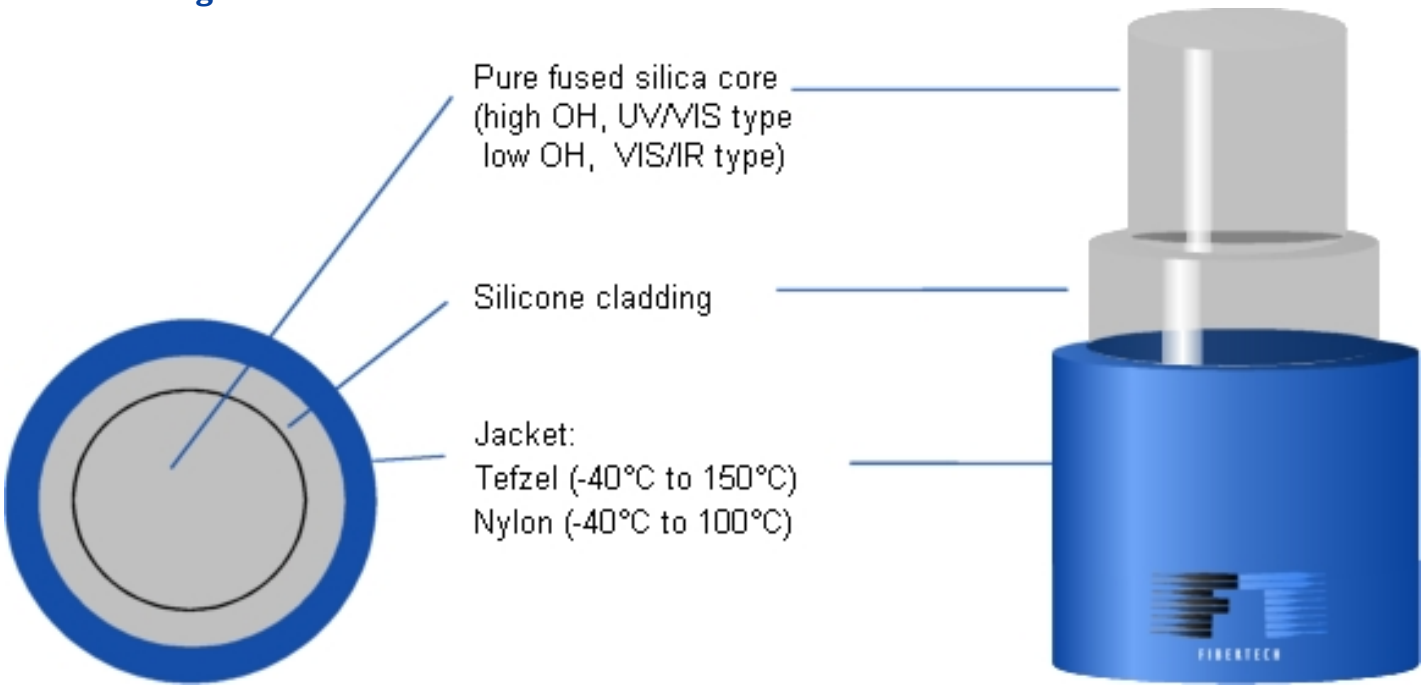
Plastic Clad Silica Fibers

Features

- **Cost effective alternative to quartz/quartz fibers**
- **UV/VIS and VIS/IR type available**
- Higher UV and IR transmission than hard clad silica fibers
- High numerical aperture
- Biocompatible materials
- Sterilizable by ETO, gamma radiation
- Radiation resistant
- Core diameters up to 2 mm

Fiber design



Fiber properties

- Step index profile
- Numerical aperture:
  0.40 (2 meters)
  0.30 (steady state)
- Proof test level: 70 kpsi
- Minimum bend radius:
  100 times the core radius (momentary)
  600 times the core radius (long term)
- Laser damage threshold:
  > 100 kW/mm2 (Nd:YAG, cw at 1060 nm)

Options

- Stainless steel or metal/silicone sheath
- Connectors (SMA, FC/PC, ST, DIN)

Applications

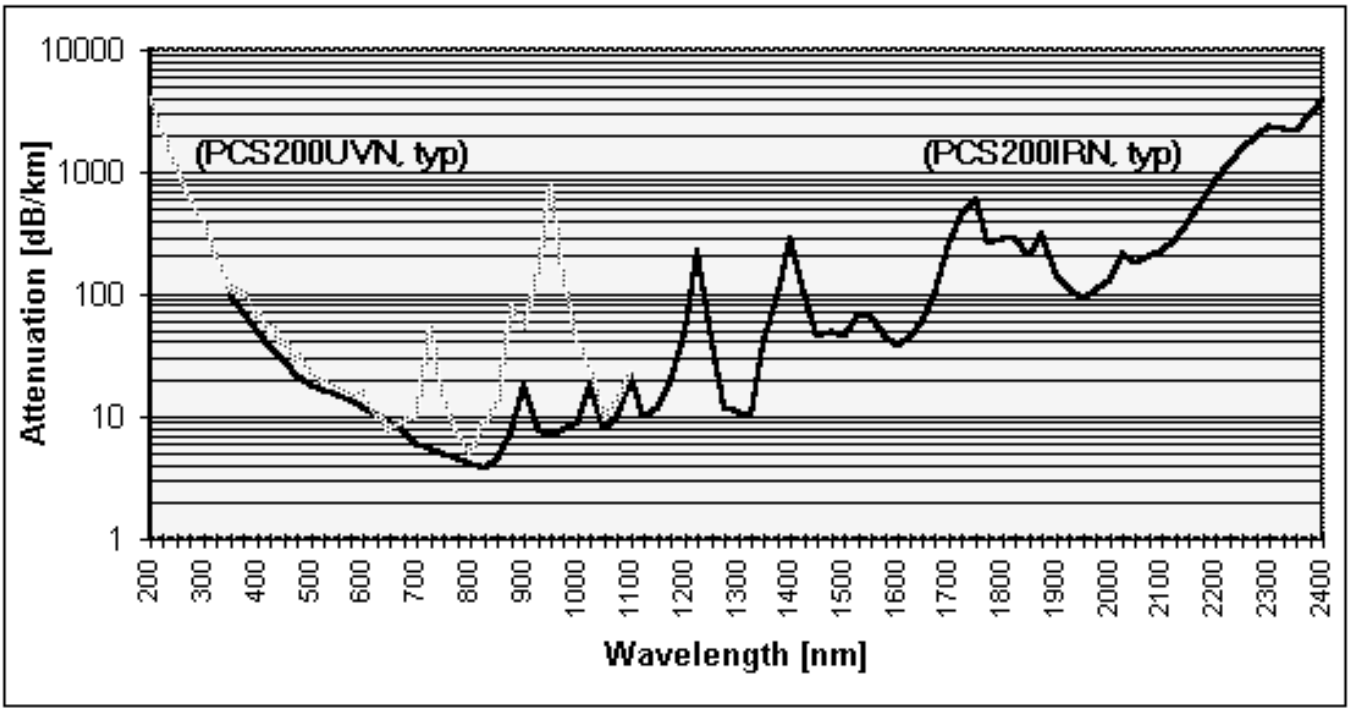
Medical

- Laser surgery
- Angioplasty
- Urology
- Dermatology
- Photodynamic therapy

Industrial/Scientific

- Spectroscopy
- Remote illumination
- Laser welding/soldering
- Sensors
- Energy research

Spectral attenuation



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