MULTIMODE MID INFRARED (MIR) FIBERS

OPERATING SPECTRAL RANGE: 300-5500 NM FOR UV/VIS/NIR/MIR

FEATURES
• Useful transmission range from 300 nm to 5500 nm
• Excellent spectral uniformity
• High laser damage threshold
• Ideal for Holmium and Erbium laser delivery
• Sterilizable by ETO, e-beam, gamma radiation
• High clad to core ratios available for high efficiency bundles

FIBER PROPERTIES
• Step index profile
• Clad/core ratio: from 1.1 to 2.0
• Core diameter: 85 to 600 µm
• Proof test: over 50 kpsi
• Numerical aperture: 0.2 +/- 0.02
• Low attenuation: < 200dB/km in 1.3 to 3.8 μm
• Operating temperature: -20°C to 90°C
• Bend radius: < 4 mm (125 µm cladding fiber)

APPLICATIONS
• Remote spectroscopy
• Chemical sensing
• Medical diagnostics
• Laser beam delivery
• FLIR
• Pyrometry

Typical Spectral Attenuation

Wavelength (µm)

Attenuation (dB/km)