

# MICROSTRUCTURED FIBERS

## Features

- High numerical aperture possible
- Radiation resistant
- High Temperature resistant
- (Biocompatible Material)
- (Sterilizable by ETO, e-beam, gamma radiation)
- Excellent chemical and abrasion resistance

## Fiber-Design

- Pure fused silica (low OH-)
- microstructured fused silica cladding
- Acrylate coating (-40°C to 85°C)
- Silicone resin coating (-40°C to 180°C)
- Polyimide coating (-190°C to 385°C)

## Options

- Numerical apertures 0.5 ... 0.9
- Metal coating
- Connectors with sealed ends (SMA, FC/PC, ST,DIN)
- AS-Fiber cables
- high temperatur acrylate -40°C to 200°C
- Buffer Options:
  - Nylon (-40°C to 100°C)
  - ETFE (-200°C to 150°C)

## Properties

- Step Index Profile
- Wavelength dependent numerical aperture 0.5 ... 0.9
- Operation wavelength range IR: 400nm ... 2400nm
- core diameter 5 $\mu$ m ... 600 $\mu$ m

