

HCS-FIBERS

Features

- High numerical aperture fiber for fiber bundles and short haul data transmission
- Cost effective
- High core to clad ratio
- Biocompatible materials
- Sterilizable by ETO, e-beam, gamma radiation
- Radiation resistant
- Excellent chemical and abrasion resistance

Fiber-Design

Properties

- Step-Index-Profile
- Numerical aperture: 0.37 ... 0,48
- Operation wavelength range UV: 300 nm to 1100 nm
- Proof test level (bend method): 70 kpsi
- Bend radius: momentary 100 times the core radius
long term 600 times the core radius

Fiber Design

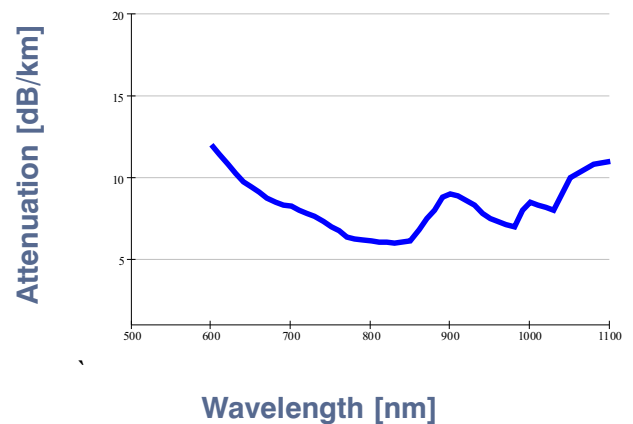
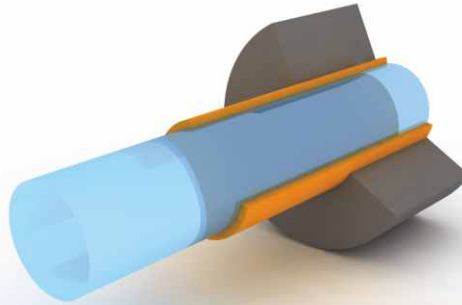
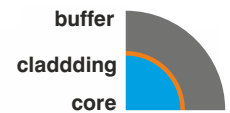
- Pure fused silica core
- Polymer cladding (-50°C to 120°C)

Buffer

- ETFE (-200°C to 150°C)
- Nylon (-40°C to 85°C)

Optional

- HCS-fiberbundles
- HCS-fiber Taper
- Connectors (SMA, FC/PC, ST, DIN)
- other specifications upon request



HCS-FIBERS

NYLON BUFFERED fibers

(208 K to 398 K)

Product code	Core (μm) \pm 2%	Cladding (μm) \pm	Buffer (μm) \pm 5%
HCS 200 UVN	200	230	500
HCS 400 UVN	400	430	730
HCS 600 UVN	600	650	1040
HCS 1000 UVN	1000	1050	1400

Note

For HCS - IR fiber, replace UV with IR in the product code.

ETFE BUFFERED fibers

(208 K to 398 K)

Product code	Core (μm) \pm 2%	Cladding (μm) \pm	Buffer (μm) \pm 5%
HCS 200 UVE	200	230	500
HCS 400 UVE	400	430	730
HCS 600 UVE	600	650	1040
HCS 1000 UVE	1000	1050	1400

Other specifications upon request.