

HIGH OH FIBER FOR UV-VIS

MEDICAL LASER / INDUSTRIAL LASER / HIGH POWER LASER DELIVERY /
UV DELIVERY SYSTEMS/ ANALYTICAL SENSING / SPECTROSCOPY

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|--------------------|---------------------|---------------------------------------|--------------------------|----------------|-------------------------------|
| ZLUV 190-1200nm | ZLDUV 190-1200nm | ACS UV 190-1200nm FW 300-2400nm | ZLDUV...CPH 190-800nm | ZLXUV 308nm | CO ₂ 9.6-10.6μm |
| ZLWF 400-2400nm | ZLHWF 350-2200nm | ZLUVWF 350-2200nm | | | |

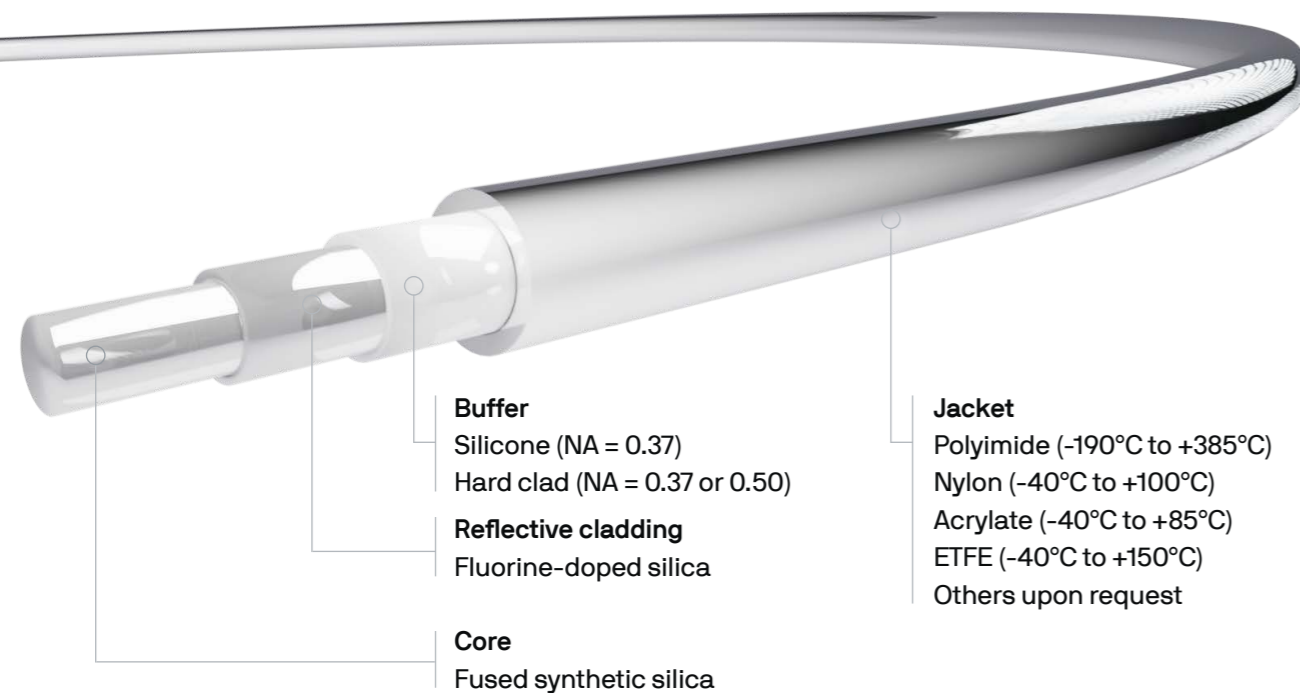


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**FIBER TYPE:
SILICA/SILICA, STEP INDEX, MULTIMODE**

Outstanding purity of High OH content fused silica material guarantees excellent transparency at UV-VIS wavelengths making Lightguide ZLUV fibers first choice for unlimited applications. Silica/silica structure of this fiber type provide the highest optical performance all through number of parameters - from transmission to damage threshold level. Fiber drawing capabilities allows produce different diameter custom-made fibers and select perfect fit for your application.

FIBER STRUCTURE



SPECIFICATIONS

PHYSICAL

Available core Ø:
70-2200 µm

Core shapes:
circular (standard), rectangular, hexagonal, octagonal, non-circular

Standard Ø tolerances of fiber layers:
Core ± 2%
Cladding ± 2%
Buffer ± 3%
Jacket ± 5%

Operating t°:
-190°C to +385°C (depend on selected buffer and jacket materials)

CCDR (clad to core ratio):
1.05, 1.10, 1.20, 1.25, 1.4, customized

Proof test:
100kpsi for (ETFE, Acrylate, Nylon jacket)
100 or 70 kpsi (for Polyimide jacket)

Bending radius, mm
Momentary: 50 x glass diameter, mm
Long term: 120 x glass diameter, mm

OPTICAL

Spectral attenuation data (graph no. 1)

Operating wavelength range:
190-1200 nm

NA (numerical aperture):
0.12, 0.22, 0.27, 0.37, 0.50

NA tolerance:
± 0.02

CHEMICAL

Core material:
Fused synthetic silica

OH content in core material:
700 ppm typically

Cl content in core:
200...300 ppm

Reflective cladding material:
F-doped silica

OPTICAL DATA

Graph no. 1

Spectral attenuation of typical ZLUV fiber.

