

# LOW OH FIBER FOR VIS-NIR

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

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

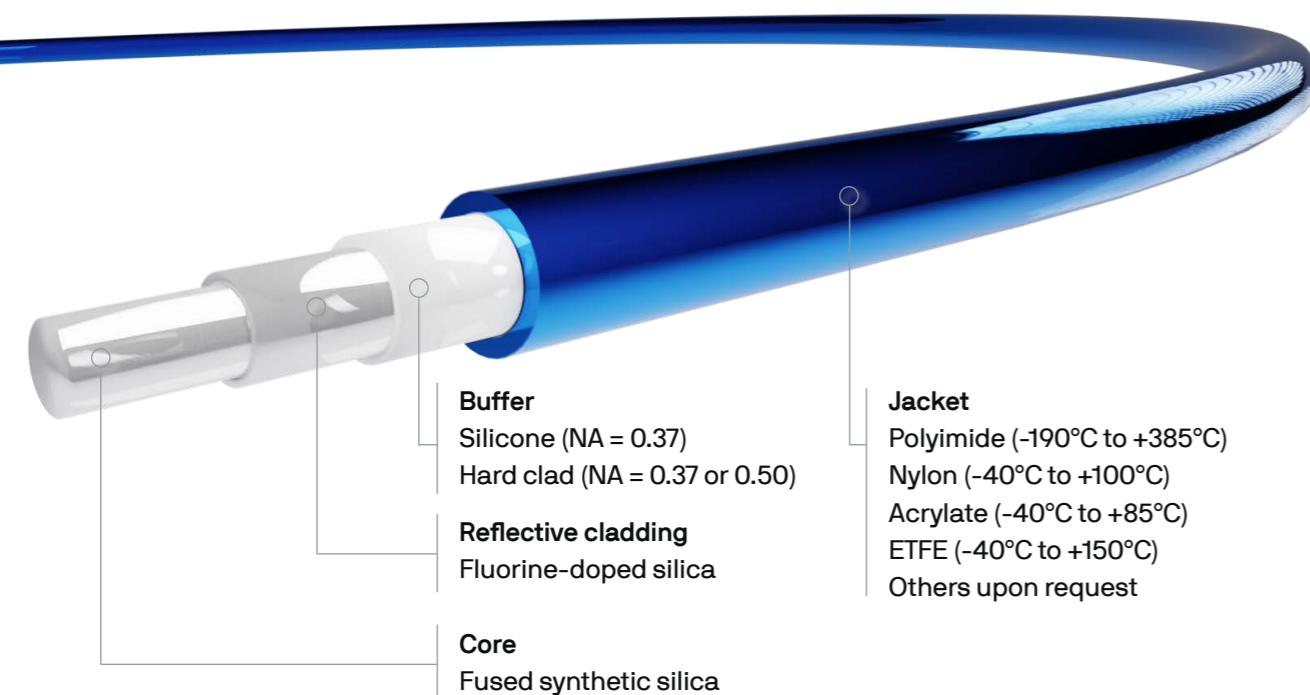


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**FIBER TYPE:  
SILICA/SILICA, STEP INDEX, MULTIMODE**

Outstanding purity of Low OH content fused silica material guarantees excellent transparency at VIS-NIR wavelengths making Lightguide ZLWF 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 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 and transmission data (graph no. 1)**
- Operation wavelength range:**  
400-2400nm
- NA (numerical):**  
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:**  
<0.7ppm, typical 0.1ppm
- Cl content in core:**  
≤2500ppm
- Reflective cladding material:**  
F-doped silica

OPTICAL DATA

Graph no. 1

Spectral attenuation of ZLWF fiber.

