

# SPECIAL FIBER FOR 308nm

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

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



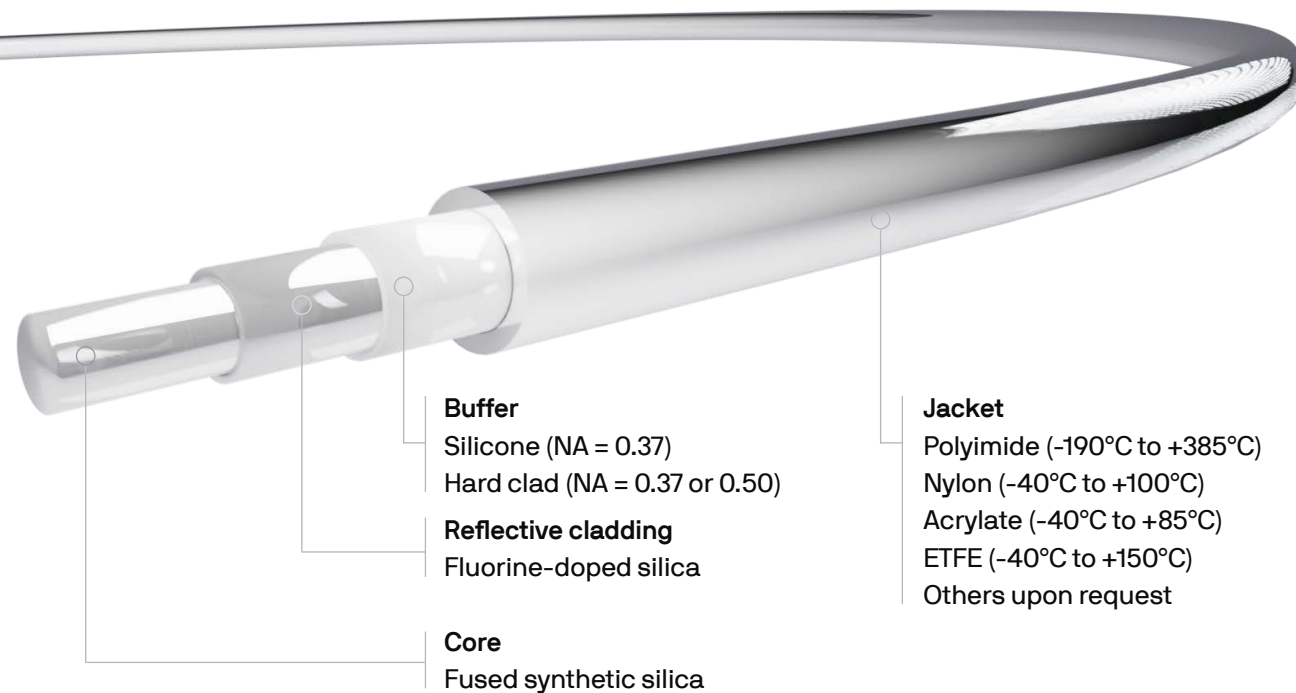


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**FIBER TYPE:**  
SILICA/SILICA, STEP INDEX, MULTIMODE, LOW SOLARIZATION

Outstanding purity of special fused silica material guarantees excellent transparency at UV-VIS wavelengths making Lightguide ZLXUV fibers first choice for unlimited applications, it is specially optimized for best performance at 308 nm. 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):**  
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)**

**Operating wavelength range:**  
260-400 nm, low solarization at 308nm

**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:**  
400 ppm typically

**Cl content in core:**  
200...300 ppm typically

**Reflective cladding material:**  
F-doped silica

OPTICAL DATA

Graph no. 1

Spectral attenuation of typical ZLXUV fiber.

