

BROADBAND OPTICAL FIBER

MEDICAL LASER / INDUSTRIAL LASER / HIGH POWER LASER DELIVERY / BROADBAND DELIVERY SYSTEMS / ANALYTICAL SENSING / BROAD RANGE SPECTROSCOPY / RADIATION RESISTANCE

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			

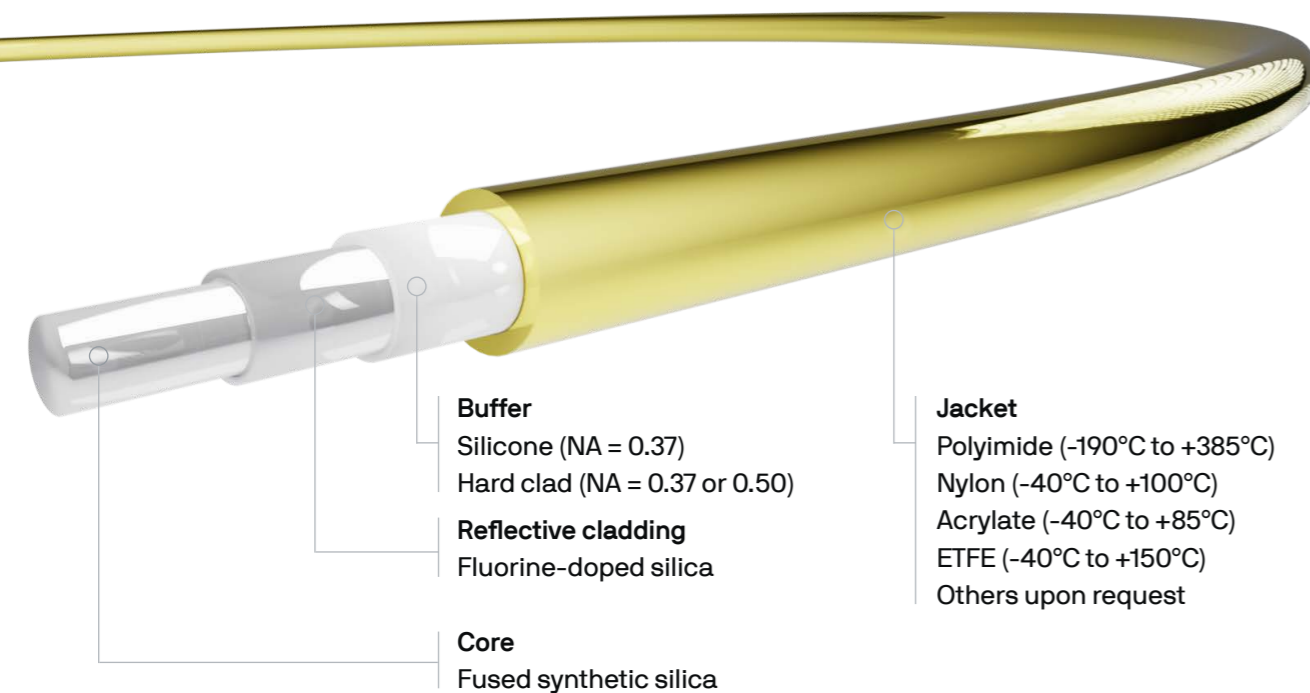


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FIBER TYPE:
SILICA/SILICA, STEP INDEX, MULTIMODE, BROADBAND, RADIATION HARDENED

Outstanding purity of special fused silica material guarantees excellent transparency at UV-VIS-NIR wavelengths making Lightguide ZLUVWF 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 STRUCTURE



SPECIFICATIONS

PHYSICAL

- Available core Ø:**
70-2200 µm
- Core shapes:**
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)**
- Operating wavelength range:**
350-2200 nm
- NA (numerical aperture):**
0.22, ± 0.02

CHEMICAL

- Core material:**
Fused synthetic silica
- OH content in core material:**
≤ 1 ppm
- Cl content in core:**
≤ 200 ppm
- F content in core:**
3000...4000 ppm
- Reflective cladding material:**
F-doped silica

OPTICAL DATA

Graph no. 1

Spectral attenuation of typical ZLUVWF fiber.