

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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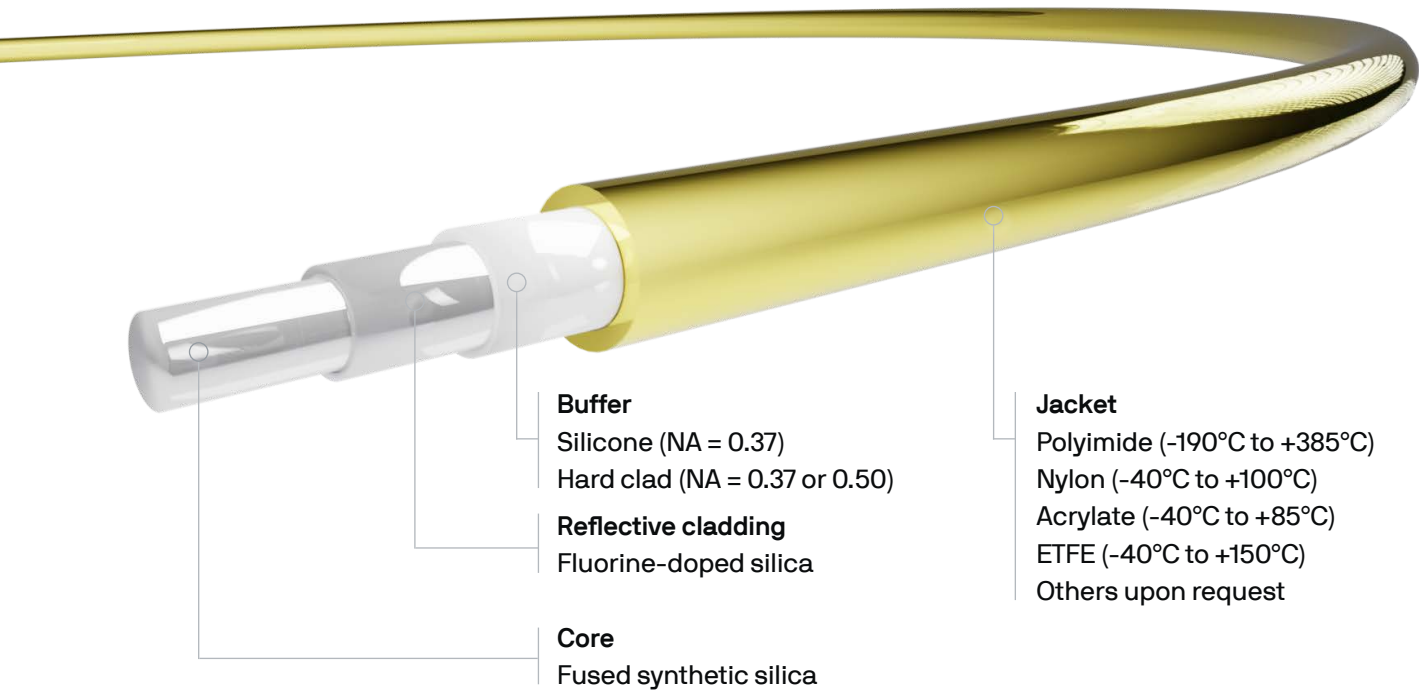
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THE WORLD'S LEADING OPTICAL
FIBER PRODUCTION LAB.

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

Outstanding purity of special fused silica material guaranties 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.

