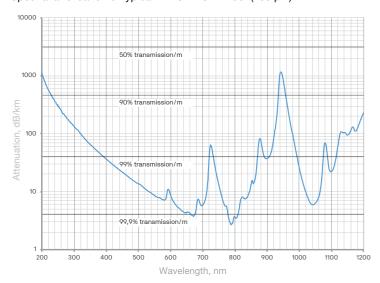


### **OPTICAL DATA**

Graph no. 1 Spectral attenuation of typical ZLDUV...CPH fiber (200 µm)



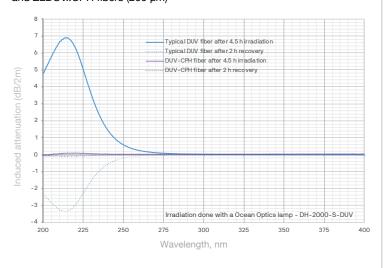
Solarization resistant fiber

Hydrogen loading does not affect (lower) initial UV attenuation spectra

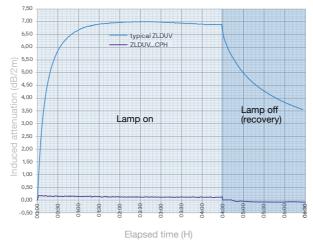
Hydrogen loading reduce solarization by one order of magnitude

ZLDUV...CPH fibers reach solarization saturation within minutes (based on measurement using specific lamp)

Graph no. 2 Induced Attenuation spectra for typical ZLDUV and ZLDUV..CPH fibers (200 µm)



Graph no. 3 Induced Attenuation at 214 nm for typical ZLDUV and ZLDUV..CPH fibers (200 µm)





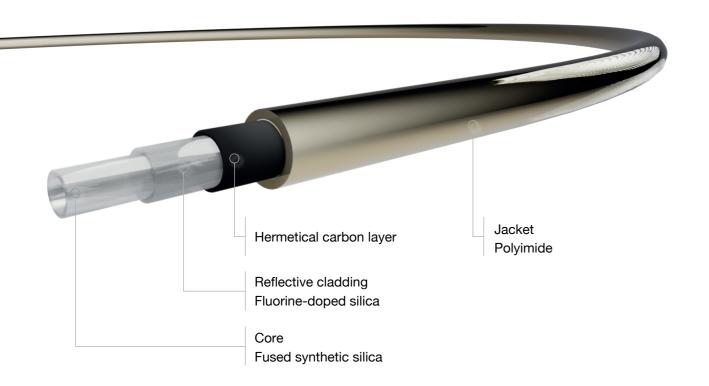


#### **HYDROGEN SATURATED FIBER** THE WORLD'S LEADING OPTICAL FIBER PRODUCTION LAB. ACS CO, ZLUV ZLDUV ZLDUV...CPH **ZLXUV** UV 190-1200nm 9.6 - 10.6µm 190-800nm 308nm 190-1200nm 190-1200nm FW 300-2400nm ZLWF ZLHWF ZLUVWF 400-2400nm 350-2200nm 350-2200nm

# FIBER TYPE: SILICA/SILICA, STEP INDEX, MULTIMODE, SOLARIZATION RESISTANT

Outstanding purity of High OH content fused silica material guaranties excellent transparency at UV-VIS wavelengths making Lightguide ZLDUV...CPH 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. THIS FIBER IS HYDROGEN SATURATED and COATED WITH HERMETICAL CARBON LAYER. Hydrogen reacts with defects coused by UV exposure ensuring superior transmission.

## FIBER STRUCTURE



## **SPECIFICATIONS**

PHYSICAL	OPTICAL
Available core Ø:	Spectral attenuation data (graph no. 1)
70 - 600 µm, larger upon a request	
Core shapes: circular (standard)	UV induced transmission changes at 214 nm and attenuation (graph no. 3)
	Operating wavelength range:
Standard Ø tolerances of fiber layers: Core ± 2%	190 – 800 nm
Reflecting cladding ± 2%	NA (numerical aperture):
Jacket ± 5%	0.22 ± 0.02 as standard others upon request
Operating t°:	
-190 to +150°C	CHEMICAL
CCDR (clad to core ratio):	Core material:
1.10, customized	Fused synthetic silica
Proof test:	OH content in core material:
100 or 70 kpsi	600800 ppm
Bending radius, mm	Reflective cladding material:
Momentary: 50 x glass diameter, mm Long term: 120 x glass diameter, mm	Fluorine-doped silica



