ArmD™ HUV, ArmD™ HWF
Silica fiber with hard polymer cladding

Armadillo presents its ArmD™ HUV/HWF fibers as a cost-effective substitute for silica/silica fibers. These fibers offer high numerical aperture values, minimal bend losses, and efficient connectorization, making them suitable for a broad range of applications.

Wavelength

ArmD™ HUV / HWF	350 – 2200 nm

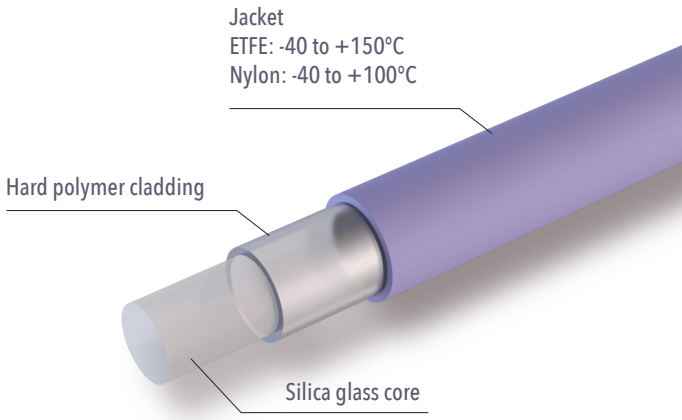
Numerical aperture (NA)

Standard	0,37 ± 0,02
High	0,48 ± 0,02
	0,50 ± 0,02
	0,52 ± 0,02
	0,57 ± 0,02
	0,62 ± 0,02

High NA HCS Fibers

Advantages

- Cost-effective (compared to silica / silica fibers)
- High concentricity
- All dielectric, non-magnetic design
- Step-index profile
- Biocompatible material
- Sterilizable using ETO and other methods



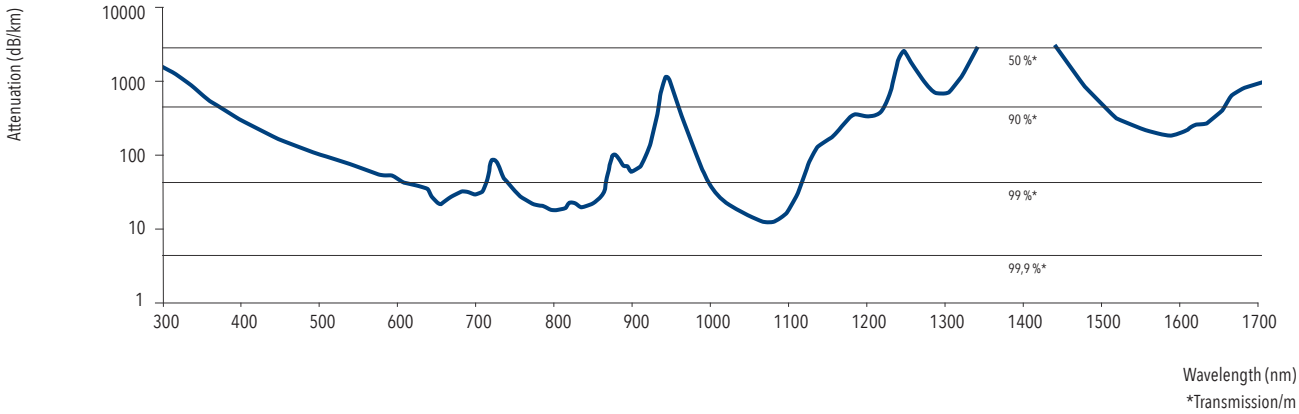
Technical data

Wavelength / spectral range	ArmD™ HUV and ArmD™ HWF: 350 – 2200 nm
Numerical aperture (NA)	0,37 ± 0,02 | 0,48 ± 0,02 | 0.50±0,02 | 0,52±0,02 | 0,57±0,02 | 0,62±0,02
Operating temperature	-40 to +150 °C
Core diameter	Available from 100 to 2000 µm
OH content	ArmD™ HUV: high (> 700 ppm) ArmD™ HWF: low (< 1 ppm)
Standard prooftest	100 kpsi
Minimum bending radius	50 × cladding diameter (short-term mechanical stress) 150 × core diameter (during use with high laser power)

Attenuation values

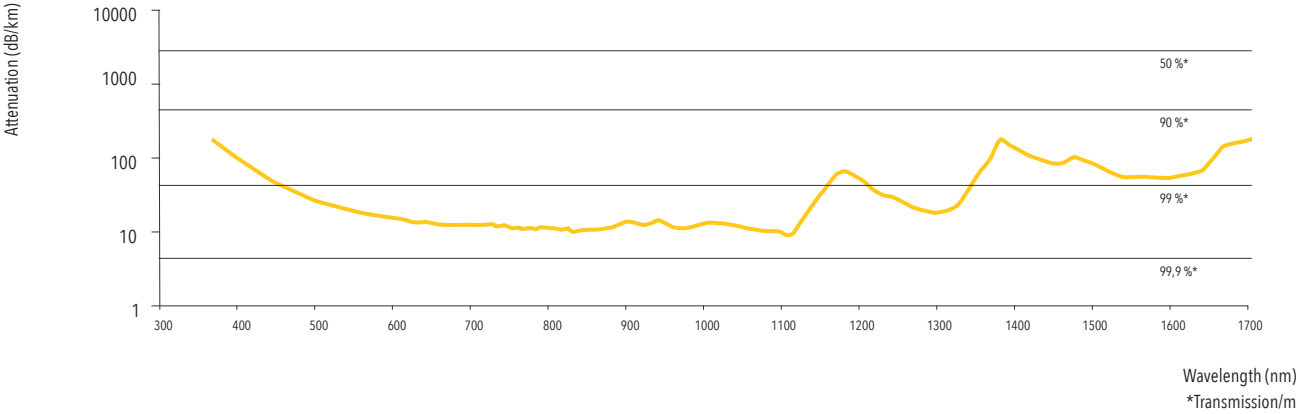
The following diagrams provide an overview of attenuation values in relation to wavelengths:

ArmD™ Ultra HUV



Wavelength (nm)
*Transmission/m

ArmD™ Ultra HWF



Wavelength (nm)
*Transmission/m

Applications

The preferred option for a range of applications, including remote illumination and photodynamic therapy, among others.

1 2 3 4 5 6

Product code key using the example of WF 300/330 (H)(B)N (28)

1	Fiber type	UV = ArmD™ UV | WF = ArmD™ WF | WFGE = ArmD™ WFGE | HUV = ArmD™ HUV | HWF = ArmD™ HWF
2	Standard core / cladding ratios	Core ø (µm) / Cladding ø (µm)
3	Buffer	H = hard polymer buffer | No information = silicone buffer
4	Colour	B = black | BL = blue | W = white | Y = yellow | R = red | G = green | No information = transparent
5	Jacket material	A = acrylate jacket (no buffer) | F = PFA Fluon® | N = nylon jacket (silicone or hard polymer jacket)
		T= ETFE jacket (silicone or hard polymer buffer) | P = polyimide jacket (no buffer)
6	Numerical aperture (NA)	12 = 0,12 | 28 = 0,28 | No information = 0,22 (standard)

SIA "Armadillo"

LV40203150242
Krisjana Valdemara iela 33-27,
Riga LV 1010 Latvia

https://armadillosia.com
Phone +1 408 900-8883
Fax 408 834-7430
info@armadillosia.com