ArmD® NIR-Ge

Ge-doped silica/silica fiber

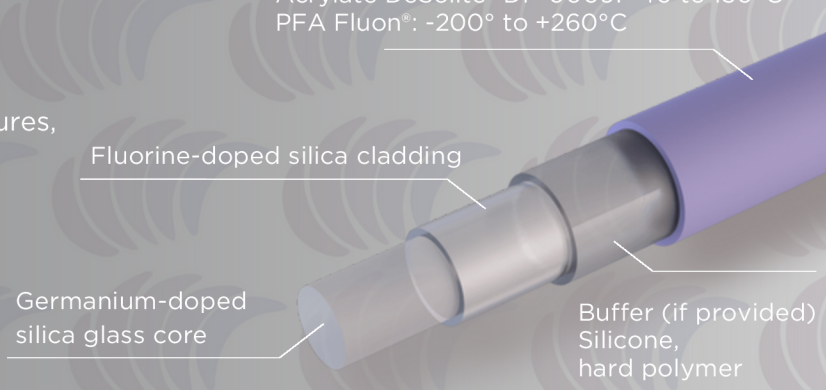
Armadillo ArmD® NIR-Ge fibers distinguish themselves with maximum numerical aperture values, unparalleled performance, and an extensive spectral range. Offering a wide range of core diameter options and customizable solutions, these fibers can be tailored to meet your specific needs.

Wavelength		Numerical Aperture (NA)	
ArmD® NIR-Ge	400 – 2400 nm	Standard	0.37 ± 0.02

Jacketing Options:
Polyimide: -190 to +350°C
ETFE (Tefzel®): -40 to +150°C
Nylon:-40 to +100°C
Acrylate: -40 to +85°C
DuPont Hytrel® 7246: -40 to +140°C
Acrylate DeSolite® DF-0009: -40 to 150°C
PFA Fluon®: -200° to +260°C

Advantages

- Germanium-doped silica glass core
- High resistance against laser damage
- Step-index profile
- Special jackets available for high temperatures, high vacuum and harsh chemicals
- Very low NA expansion
- Biocompatible material
- Sterilizable using ETO and other methods



Technical data

Operating temperature	-200 to +350 °C
Core diameter	Available from 20 to 1000 µm
Standard core / cladding ratios	1 : 1.04 | 1 : 1.06 | 1 : 1.1 | 1 : 1.15 | 1 : 1.2 | 1 : 1.25 | 1 : 1.4 or customized
Standard prooftest	100 kpsi (nylon, ETFE, acrylate jacket) | 70 kpsi (polyimide jacket)
Minimum bending radius	50 × cladding diameter (short-term mechanical stress) 150 × core diameter (during use with high laser power)

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