Chalcogenide IR-Fibers & Cables

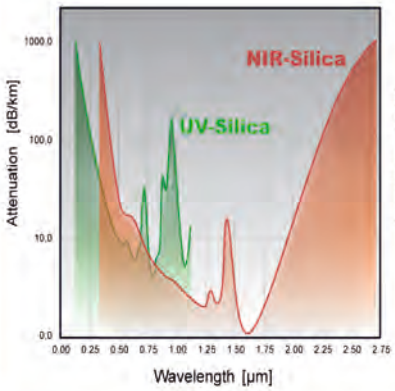
art photonics

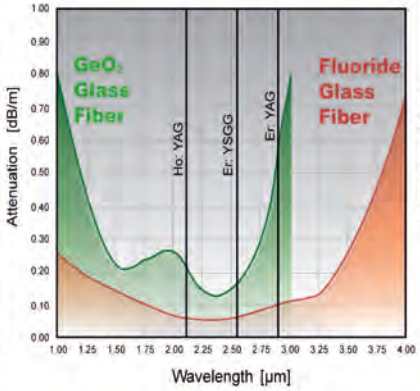
***art photonics* FlexiRay®** product line includes unique Chalcogenide Infra-Red (CIR-) fibers.
Based on chalcogenide glasses (As - S) they transmit IR-radiation in the spectral gap between Silica fibers (0.2-2.4µm) and Polycrystalline Infra-Red (PIR) fibers (4-18µm) in the range 1.1 - 6.5µm.

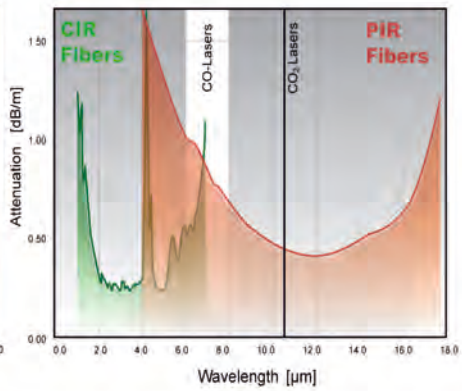
Applications:

- Flexible IR-imaging systems
- Remote non-contact pyrometry in the 200-600K range
- Fiber probes for remote process IR - spectroscopy
- Fiber amplifiers and lasers

broad spectra fiber solutions **www.artphotonics.com**





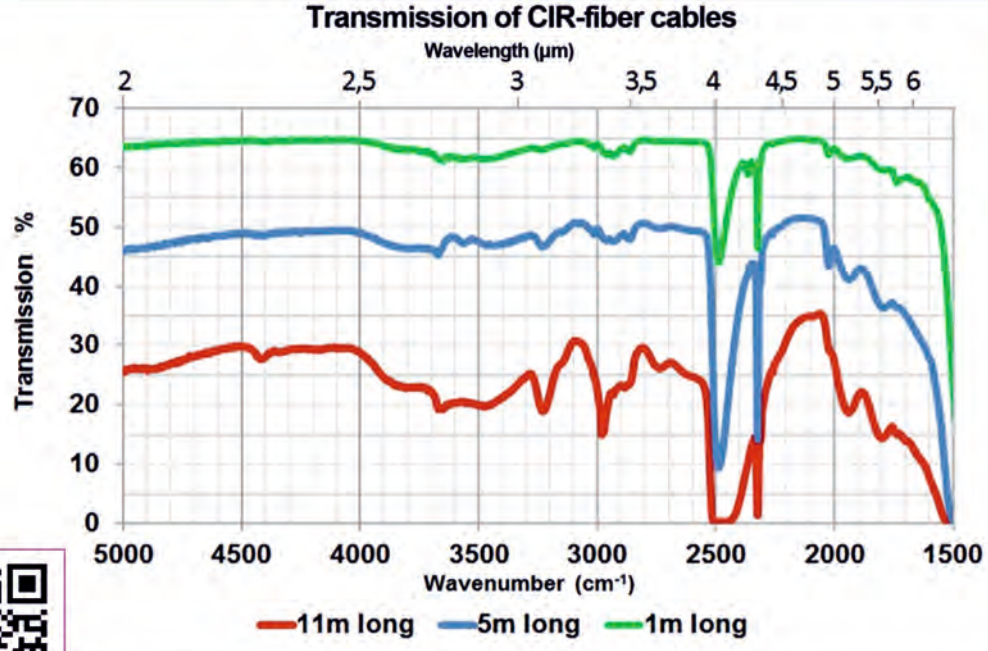


Fiber Specification

Standard Fibers	CIR-250/300	CIR-350/400	CIR-500/550
Core diameter, µm	250	350	500
Protective coating, µm	300	400	550
Polymer jacket, µm	380	510	700
Minimal bending radius, mm	50	75	100

*other diameters are available on request

Transmission Range	1.1 - 6.5 µm
Core / Cladding material	As-S - glass
External Jacket	PVC
Core Refractive Index	2.4
Effective Numerical Aperture (NA)	0.3
Operating Temperature, °C	-200 < T < 90
Minimal bending radius	200 x fiber outer diameter
Maximum transmitted Power, W	1 (CW)



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