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Chalcogenide IR-Fibers & Cables

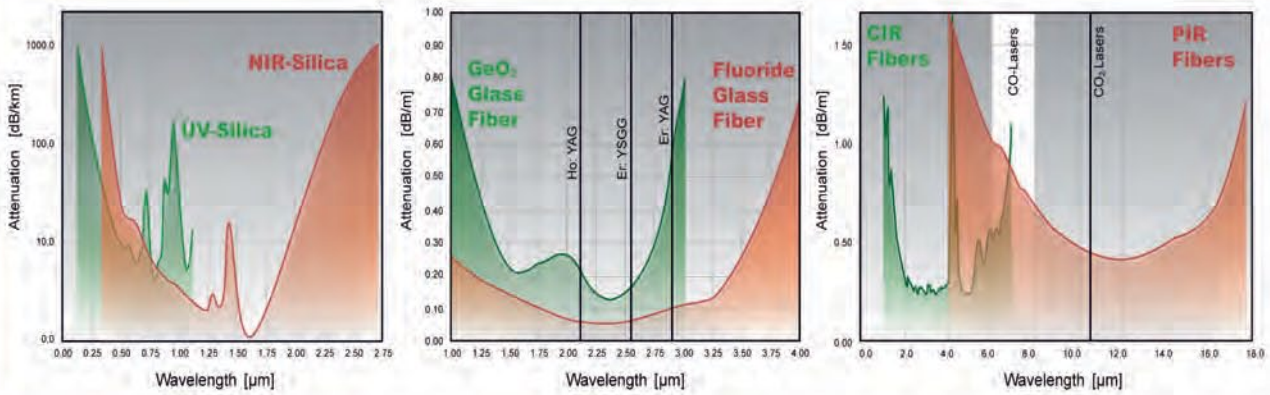


art photonics FlexiRay[®] product line includes unique Chalcogenide Infra-Red (CIR-) fibers.

Based on chalcogenide glasses (As - S) they transmit IR-radiation in the spectral gap between Silica fibers (0.2-2.4 μ m) and Polycrystalline Infra-Red (PIR) fibers (4-18 μ m) in the range 1.1 - 6.5 μ m.

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



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)

Transmission of CIR-fiber cables

