BROAD SPECTRA FIBER SOLUTIONS

CIR-Chalcogenide IR-Glass Fiber

hightechphotonics

Chalcognide InfraRed (CIR) glasses are the best As_2S_3-based material for fiber optics in the range of 2 - 6 µm. CIR fibers transmit IR-radiation in the gap between silica fibers(0.2-2.4µm) and Polycrystaline InfraRed (PIR) fibers (4-18µm).

CIR fiber is drawn in core/clad structure with double polymer coating and characterized by a low optical loss and high flexibility.

The innovative glass purification process provides the attenuation spectra free from the OH absorption at 3 µm.

.

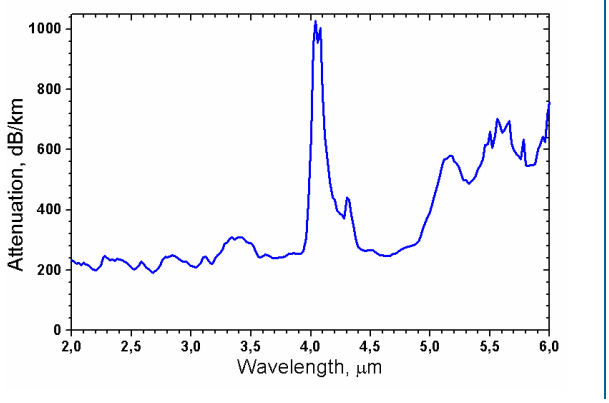
FEATURES

- high transmittance from 2 µm up to 6 µm
- suitable for low power delivery
- optical losses 0.2 dB/m at 2 - 4 µm
- double polymer coating for high flexibility
- durable cables with SMA-connectors

APPLICATIONS

- Flexible delivery for low power
- flexible IR-imaging systems
- remote non-contact pyrometry in the 200-600K range
- fiber probes for remote process IR - spectroscopy

CIR-Fiber Spectra



FIBER SPECIFICATION

FIBER SPECIFICATION	
Transmission Range	2 - 6 µm
Core/Clad Structure	As_2S_3/As-S
Core/Clad Diameter	230/300, 455/515, 620/700, 750/900 10µm
Core Refractive Index	2.4
Protective Coating	Double Polymer, OD 700µm
Ambient Temperature Range	280 - 400 K

CIR Infrared Optical Fiber Standard Cables

Chalcogenide InfraRed (CIR) (2-6µm) fiber is drawn in core/clad structure with double polymer coating and characterized by a low optical losses and high flexibility. Below are standard cable sizes and prices. Delivery is from stock or within few weeks ARO. All standard cables include PEEK-polymer protective jacket and SMA termination.

Part Number	Description	Wavelength Range	Price/ 1m cable	Price/ additional meter length
CIR250/300 250 µm core CIR	fiber cable with PEEK protective tubing and SMA termination	2-6µm	call	
CIR400/500 400 µm core CIR	fiber cable with PEEK protective tubing and SMA termination	2-6µm		
CIR500/550 500 µm core CIR	fiber cable with PEEK protective tubing and SMA termination	2-6µm		

High Tech Photonics
23 Alafaya Woods Blvd
Oviedo, FL 32765

jim@jtingram.com
800 335 5582
561 573 6533