Polycrystalline IR-Fibers & Cables

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erm of this patent is twenty years from Suitable for CO₂- laser power delivery up to 50W

(0.1-0.5 dB/m) Industry Chicksonsins

Standard fiber diameters from

High flexibility and no toxicity

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art photonics development of unique extrusion technology for the Mid-Infrared fibers has resulted in a production of Core / Clad Polycrystalline Infra-Red (PIR-) fibers. The PIR-fibers are non-toxic, very flexible and transparent across a broad spectral range 3 -18 µm and capable for operating over the wide temperature range from 4K to 420K.

Applications:

dications under 35 U.S.C. 120, 121 or 365(c Low attenuation at 10.6µm

0.3 to 1.0mm

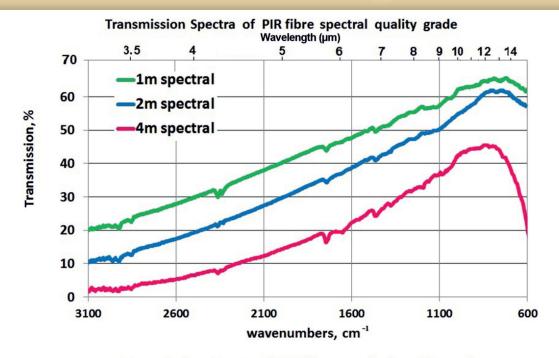
No aging effect

Spectroscopy Probes for Liquids, Gases & Solids

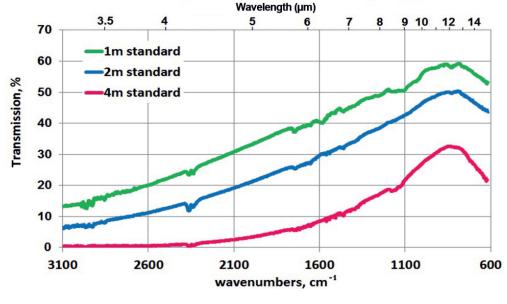
- Flexible Pirometry in Mid-IR
- Flexible IR-imaging Systems
- Power delivery for CO & CO₂ Lasers
- Fiber Coupled QCL

Fiber Specification					
Standard Fibers	PIR-240/300	PIR-400/500	PIR-630/700	PIR-900/1000	
Core diameter, um	240	400	630	900	
Cladding diameter, um	300	500	700	1000	
*other diameters are available on request					

Transmission Range	3 – 18 um	
Core material	AgCl _{0.25} Br _{0.75}	STATE AND
Cladding material	AgCl _{0.50} Br _{0.50}	は正常であるようななよう
Protective tubing	PEEK	A STREAM AND A STREAM
Core Refractive Index	2.15	のなどないないなどので
Effective NA	0.3	
Minimum bend radius	100 x Fiber diameter	
Operating temperature, °C	-270 < T < 150	
Maximum transmitted Power, W	40 (CW)	調査部であるとなる



Transmission Spectra of PIR fiber standard quality grade



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