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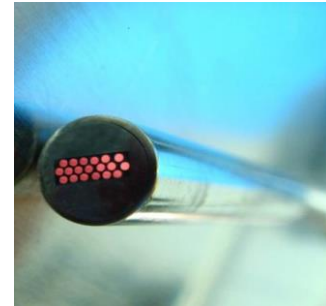
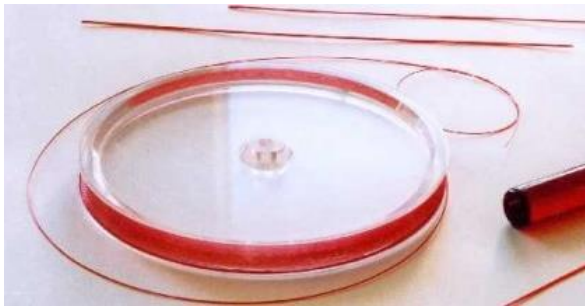


**broad spectra fiber solutions**



**art photonics**

## Chalcogenide (CIR) Fiber Bundles, Convertors and Splitters



**art photonics GmbH** development of specialty fibers for the Mid-IR region has resulted in a unique product – Chalcogenide Infra-Red (CIR-) fibers. Chalcogenide glasses ( $As_2 S_3$ ) transmit IR-radiation in the spectral range of 1.1 – 6 $\mu m$ . Our CIR fibers are drawn in core/clad structure with double polymer coating and characterized by low total optical losses and low absorption peaks over mentioned spectral range. High flexibility & high transmission of our chalcogenide fibers allowed producing commercial fiber bundles & convertors for Mid-IR applications.

### Features

- Custom design
- Customized fiber arrangement and splitting
- Standard and customized connectors
- Mixed fiber bundles (UV,NIR,MIR) are available

### Applications

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

### CIR Fiber Bundle & Convertor Specification

<b>Design</b>	Rectangular to Circular Circular to Circular
<b>Core/Clad Fiber Diameter</b>	250/300; 350/400; 500/550 $\mu m$
<b>Number of Fibers</b>	Up to 37 in hexagonal configuration more - on request
<b>Length of Bundle</b>	0,5 - 5 m
<b>Types of Protective Jackets</b>	PVC, PC + Nylon, Rigid Metal Housing
<b>Spectral Range</b>	1,1 to 6,0 $\mu m$