

# Fiber Bundles & Converters

## FlexiRay®

Multispectral bundles from  
different fiber types

Splitting light from light source  
into several channels

Combining light from several  
sources

Reshaping of light beam cross  
section

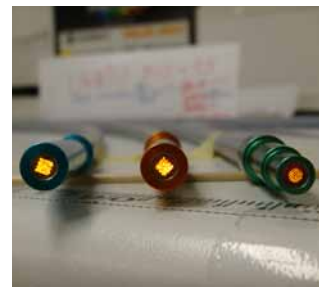
art photonics designs and manufactures various types of **FlexiRay®** fiber bundles and fiber converters in a broad spectral range from 0.2 to 18 $\mu$ m. **FlexiRay®** bundles are designed to meet customer requirements with different fiber types, diameters and using polymer or metal jacket.

### Applications:

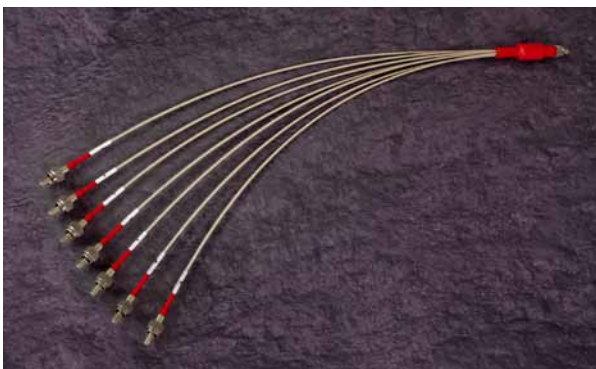
- Spectral imaging
- Pyrometry
- Optical sensing
- Laser welding / soldering / marking
- Analytical instruments
- Flexible illumination in medical diagnostic



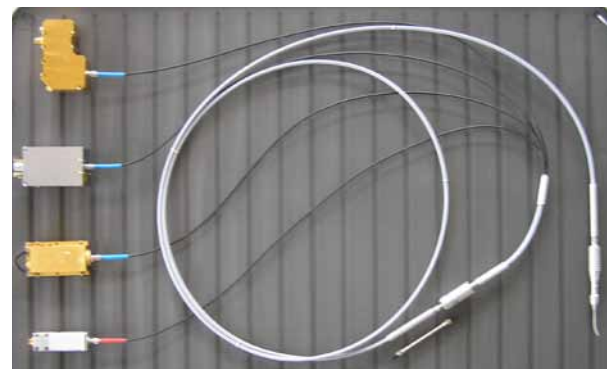
Coherent and randomized silica fiber bundle



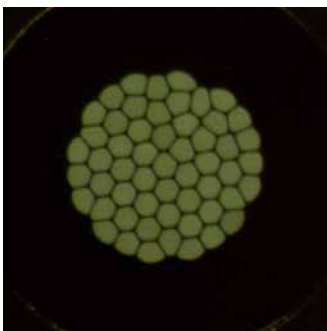
Mixed fiber bundle consisting of UV silica, VIS-NIR silica and CIR fibers to enable remote spectroscopy in 0.2  $\mu\text{m}$  to 6 $\mu\text{m}$  spectral range



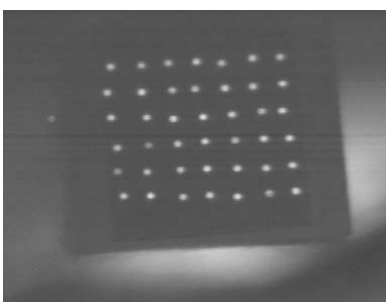
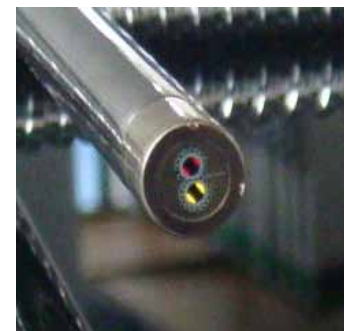
CIR Fiber Splitter: 1 x7



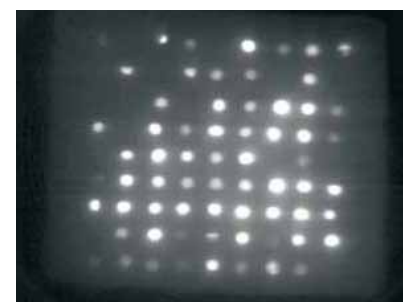
Silica Fiber Combiner



UV/VIS/NIR (180 - 2500 nm) -from silica fibers  
Mid Infrared (1.5 - 6.0  $\mu\text{m}$ ) - from CIR fibers  
Mid Infrared (4.0 - 18.  $\mu\text{m}$ ) - from PIR fibers  
UV/VIS/NIR/MIR (180 nm - 18  $\mu\text{m}$ ) -  
mixed fiber bundle from Silica, CIR & PIR fibers  
in any combination



IR-Image Converter:  
7x7 PIR - 300  $\mu\text{m}$  fibers grid to 1x49 Line Bundle



Imaging bundle assembled  
from 9x9 PIR - 200 $\mu\text{m}$  fibers



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