

Fiber Bundles & Converters



art photonics



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

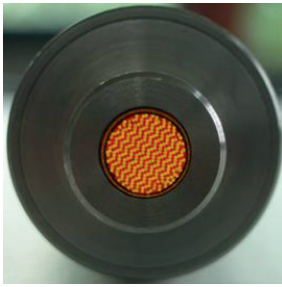
art photonics designs and manufactures various types of FlexiRay® fiber bundles and fiber converters in a broad spectral range from 0.2 to 18 μ m. FlexiRay® bundles are designed to meet customer requirements with different fiber types, diameters and using polymer or metal jacket.

Applications:

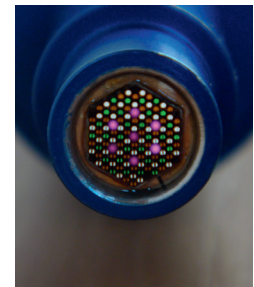
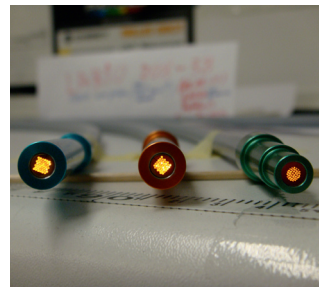
- Spectral imaging
- Pyrometry
- Optical sensing
- Laser welding / soldering / marking
- Analytical instruments
- Flexible illumination in medical diagnostic

broad spectra fiber solutions

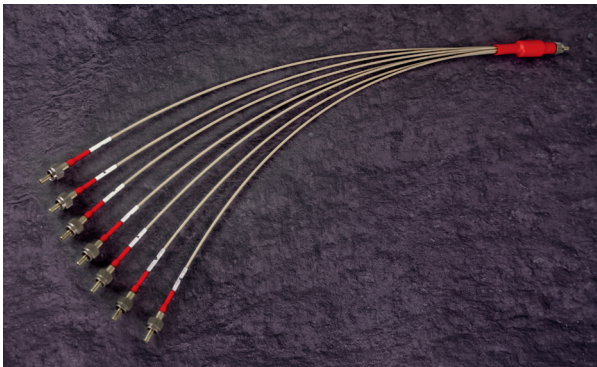
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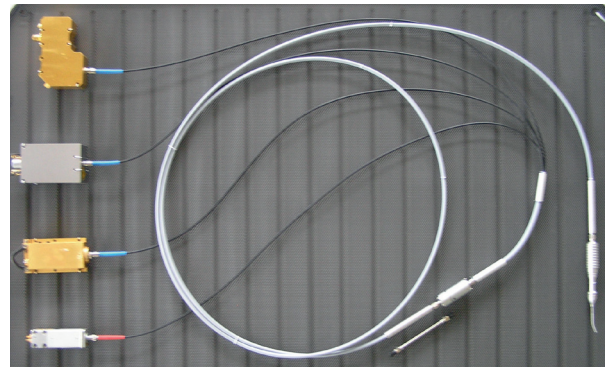
Coherent and randomized silica fiber bundle



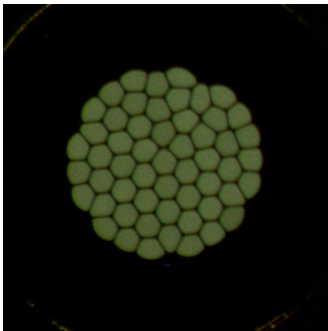
Mixed fiber bundle consisting of UV silica, VIS-NIR silica and CIR fibers to enable remote spectroscopy in 0.2 μm to 6 μm spectral range



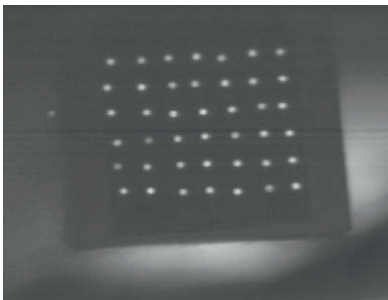
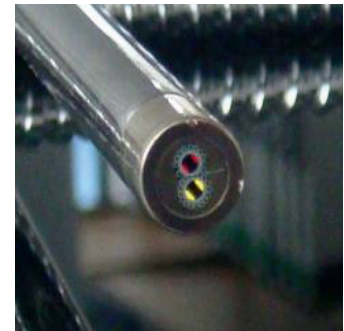
CIR Fiber Splitter: 1 x7



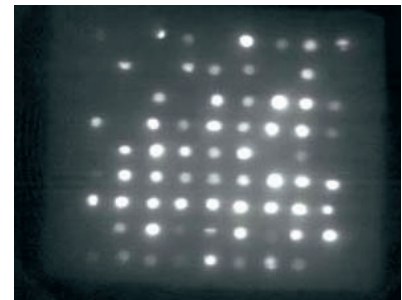
Silica Fiber Combiner



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



IR-Image Converter:
 7x7 PIR - 300 μm fibers grid to 1x49 Line Bundle



Imaging bundle assembled
 from 9x9 PIR - 200 μm fibers



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