

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

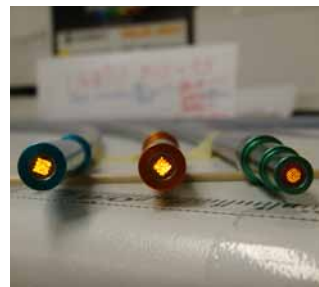
art photonics designs and manufactures various types of FlexiRay[®] fiber bundles and fiber converters in a broad spectral range from 0.2 to 18 μ m. FlexiRay[®] bundles are designed to meet customer requirements with different fiber types, diameters and using polymer or metal jacket.

Applications:

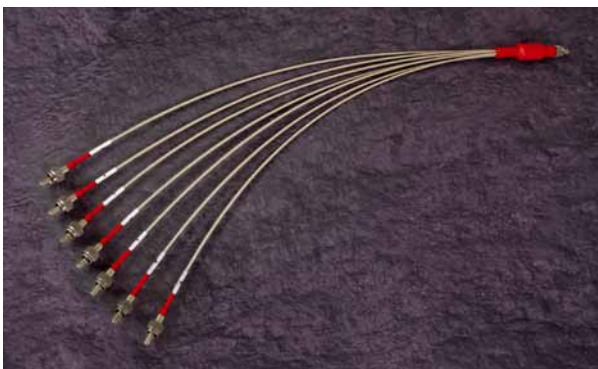
- Spectral imaging
- Pyrometry
- Optical sensing
- Laser welding / soldering / marking
- Analytical instruments
- Flexible illumination in medical diagnostic



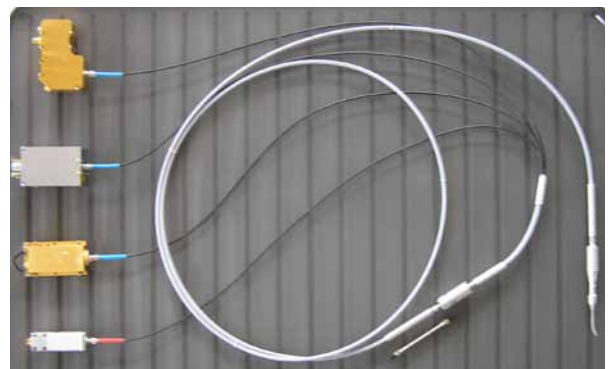
Coherent and randomized silica fiber bundle



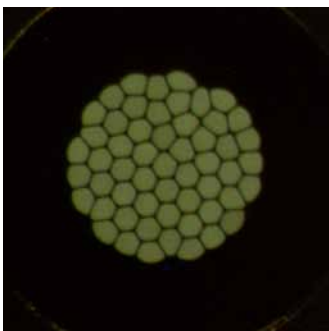
Mixed fiber bundle consisting of UV silica, VIS-NIR silica and CIR fibers to enable remote spectroscopy in 0.2 μm to 6μm spectral range



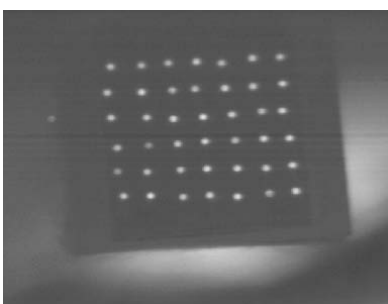
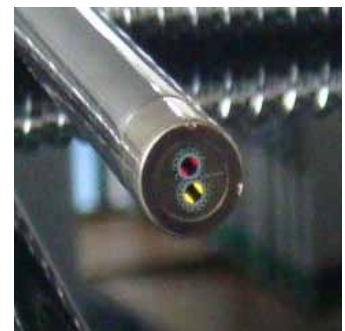
CIR Fiber Splitter: 1 x7



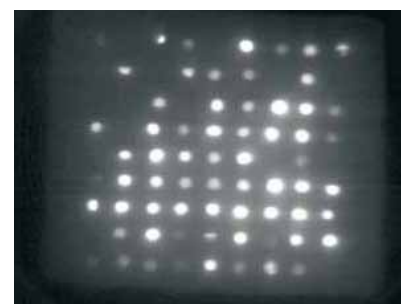
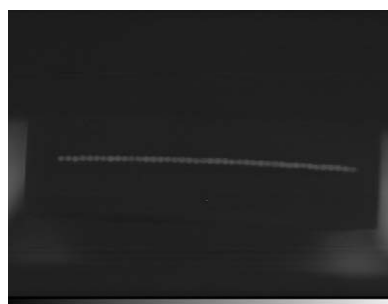
Silica Fiber Combiner



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 - 200μm fibers



artphotonics.com

art photonics GmbH
Rudower Chaussee 46
12489 Berlin Germany

Phone + 49 (0) 30-6779 887-0
sales@artphotonics.com
www.artphotonics.com

QAS Int. - certified
DIN EN ISO 9001:2008
Zertifikat Nr. A1887GER

