

# Polymicro Technologies™ Optical Fiber Bundle Assemblies



Delivering high-power optical fiber bundles, Polymicro Technologies™ Customized Optical Fiber Bundle Assemblies are produced from raw material to final product in one location for unparalleled customization and cost savings

## Features and Benefits

Fully bundled optical fiber assemblies from a single source

Offers virtually unlimited options with design support, production, and assembly. Provides significant cost savings

Dense fiber count – up to thousands of fibers in one assembly

Enables design flexibility, simplicity, and adaptability. Maximizes the number of fibers in the bundle while minimizing empty, wasteful space

Fused bundling

Eliminates epoxy, fluorescence, and inter-fiber spaces. For use in high-temperature applications requiring high-power density, lamps, and lasers

High-precision fiber arrays

Designed for superior power throughput as well as input-output shape conversion. Includes both illumination and detection fibers in the same assembly

Ruggedized bundling conduit

Able to withstand a wide variety of operating conditions

## Applications

### Industrial

- Material Processing
- UV Curing
- Laser Welding/Soldering/Marking
- UV Photolithography
- UV Spectroscopy
- High Temperature Spectroscopy
- Sensors
- Analytical Instruments

### Scientific

- UV Illumination and Monitoring
- UV Raman Spectroscopy

### Bundle Arrangement

#### Highest Fiber Packing Fraction

- Bifurcated
- Mapped
- Multi-Legged
- Random
- Single
- Trifurcated

## Order Information

Custom Product	Description
<a href="#">Contact Molex</a>	Optical Fiber Bundle Assemblies



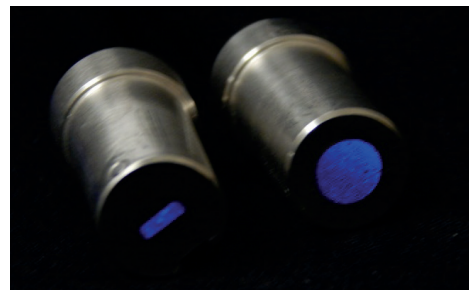
Optical Fiber Bundle  
Stainless Steel Jacket  
16 SMA 905 Connectors and  
One Common-End Custom Connector



Optical Fiber Bundle



High-Precision Fiber Array



Input-Output Shaped Converter

[www.molex.com/polymicro/fiberopticassemblies.html](http://www.molex.com/polymicro/fiberopticassemblies.html)