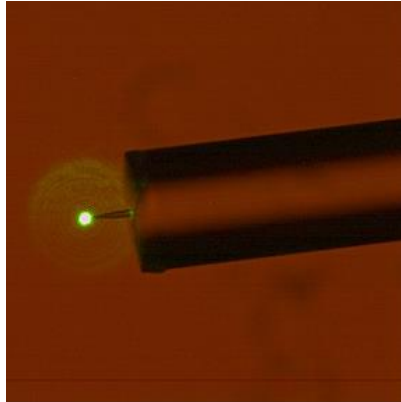
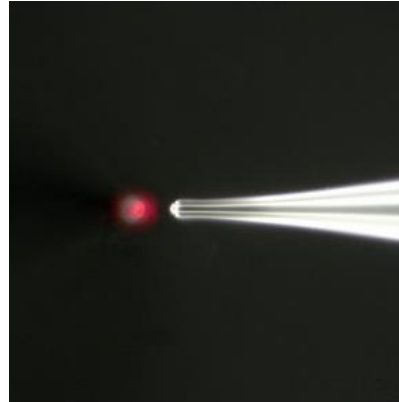


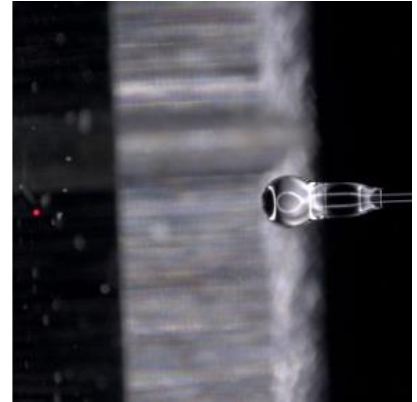
K-TEK Nanotechnology offers great flexibility in design options for micro-lensed fiber assemblies for photonic applications. Many parameters, such as lens geometry or fiber type, fiber length, protection, termination, etc. can be specified to ensure proper system operation. Our fibers can be customized to get the required mode size and are suitable for small waveguides. Micro-lensed fibers can be connectorized upon request. Connectors include SMA, FC/PC or FC/APC.



PMF line



FML line



BLF line

PMF: TAPER POLYMER MICRO-LENS

- Unique manufacturing process allowing self-alignment on fiber core
- Very high coupling efficiency
- Suitable for small waveguide sizes
- Available radius of curvature: 1000nm, 2000nm, 3000nm
- Can be customized to obtain the required mode size (optimization based on the structure of your waveguide)
- For short working distance (less than 5μm)

FML: GLASS MICRO-LENS

- Taper glass lens at the end of the fiber
- Spot size: 2μm
- Working distance: 5μm
- Can be customized upon request

BLF: BALL LENSED FIBER

- Glass lens at the end of the fiber
- Diameter: 50μm, 100μm, 200μm
- Spot size: 10μm - 15μm
- Working distance up to 250μm - 300μm
- Can be customized upon request

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AVAILABLE ON SMF28 AND PM1550 FIBERS

Fiber	Mode field diameter	Core diameter	Clad diameter	Jacket	N.A
SMF28	9.2μm@1310nm	N/A	125μm	250μm (acrylate)	0.14
	Single-mode at the telecom wavelengths 1310nm & 1550nm. Good transmission in the 350nm-850nm range.				
PM1550	10.5μm@1550 nm	N/A	125μm	245μm (acrylate)	0.13
	Polarization maintaining fiber. Single-mode at the telecom wavelengths 1310nm & 1550nm.				

Other fibers are available on request. Please note feasibility study and parameter search might be necessary.

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