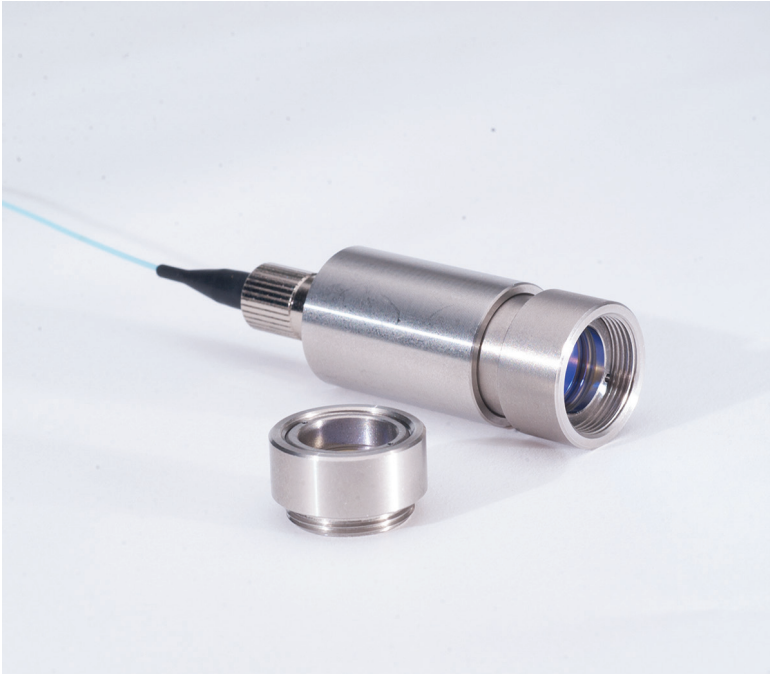


Fiber Focusers

with Diffraction limited spots

New!



Features

- Air spaced design
- No epoxy in the optical path
- Long working distance
- Precision aligned optics
- FC, FC/APC, or pigtailed
- Stainless steel housing

Applications

- Probing hazard environments
- Confocal instrumentation
- Flow cytometry
- Genetic sequencing
- Micro array scanners
- Direct write systems
- Materials processing and analysis

The Fiber Focuser is designed to generate micron spot sizes at long working distance. It is a multi-element air spaced design that is optimized to work with singlemode fibers, polarization maintaining (PM) fibers and large mode area (LMA) fibers.

The Fiber Focuser incorporates a Focusing Cell that provides diffraction limited spot sizes at long distances. The Adjustable Fiber Focuser works at any one wavelength within the AR coating range. Focusing Cells screws onto the main collimator to provide a convenient and compact way to define your focused spot. This eliminates additional optics holders and alignment labor.

All optical materials are chosen to eliminate or minimize any fluorescence generated by some optics when used by lasers, especially visible lasers. An all stainless steel housing construction minimizes any temperature effects. The

Fiber Focuser is available with an FC, FC/APC receptacle or pigtailed with your choice of fiber.

Custom Fiber Focusers can be fixed for your wavelength, or include other optics such as polarizers, beam splitters, detectors, other housing materials, mounting holes or slots, special wavelength ranges and environmental concerns. Diode lasers can also be supplied for a complete system

We design, manufacture and assemble all parts in-house to give you the right focuser for the job.

 **Micro Laser Systems, Inc.**

12841 Western Ave. Suite H, Garden Grove, CA 92841
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Fiber Focusers

Specifications

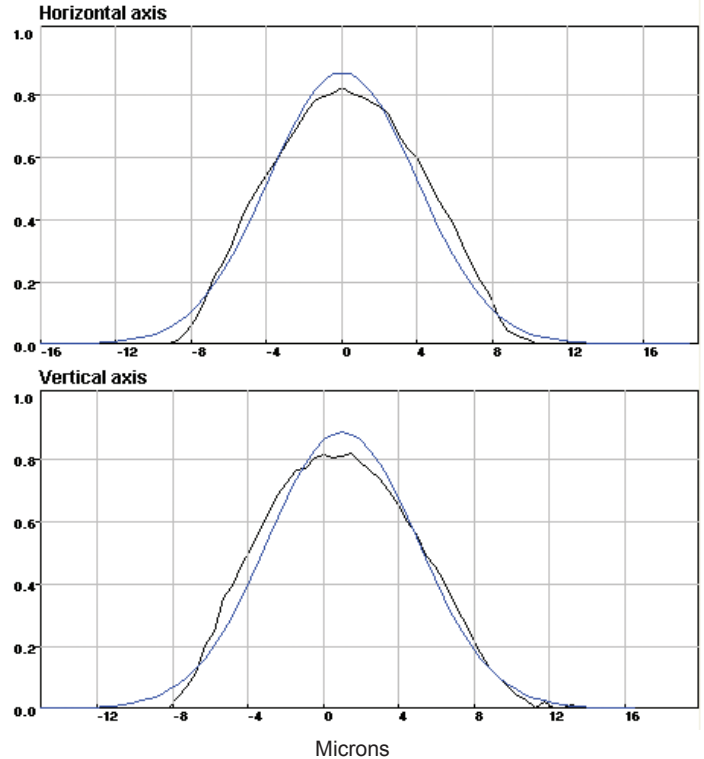
Wavelength range:	350 nm - 1700 nm
Aperture:	10 mm
Housing material:	Stainless steel
Receptacle:	FC, FC/APC or pigtailed

Please call or email on your desired spot size and working distance.

Example spot sizes:

Using lens with 50.2 mm focal length: <10 μm spot

Using lens with 100 mm focal length: <20 μm spot



Beam profile of ~16 μm spot at 100 mm distance.

Ordering Information

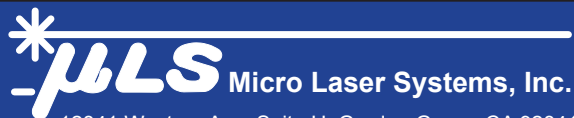
FCF10-XXXX-YYY- ZZZ

XXXX = VIS for 350 - 600 nm
 = NIR1 for 600 - 1000 nm
 = NIR2 for 1000 - 1700 nm

YYY = 040 for 40mm focal length
 = 050 for 50.2mm focal length
 = 100 for 100 mm focal length
 = 150 for 150mm focal length

ZZZ = FC for FC receptacle
 = APC for FC/APC
 = P for pigtailed

Specifications subject to change without notice.



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