

Fiber Focuser | FF1/FFF1

RoHS

Fiber focusers consist of a GI lens with a base material machined to the desired diameter and length, mated to a single-mode optical fiber. They output more focused light than a GI lens.

Application Systems

Optics & Optical Coatings

Opto-Mechanics

Bases

Manual Stages

Actuators & Adjusters

Motorized Stages

Light Sources & Laser Safety

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Microscope Unit

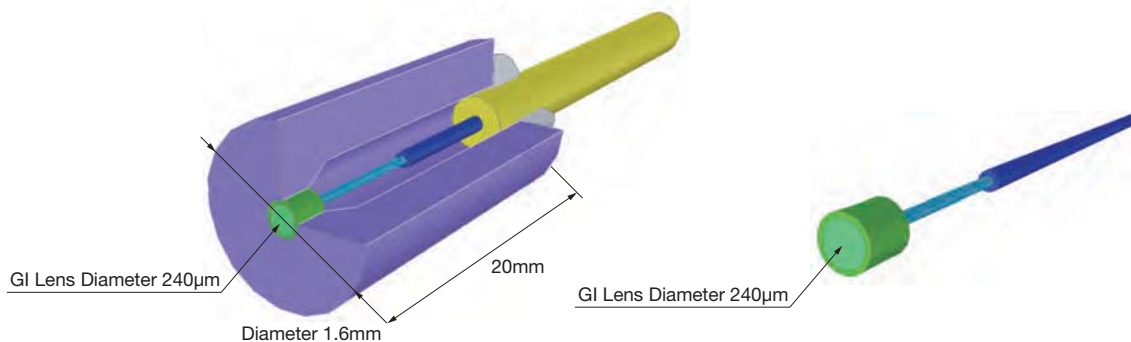
Alignment

Interferometers

Inspection/Observation

Bio-photonics

Laser Processing



Specifications

Type	Single-core fiber focuser: FF1	Single-core fiber fine focuser: FFF1
Beam waist position	$\leq 2\text{mm}$	$\leq 50\mu\text{m}$
Beam waist diameter	$\leq 50\mu\text{m}$	$\leq 8\mu\text{m}$
Lens Diameter	240 μm	
Termination Type	Jacket type, bare type	
Insertion loss	$\leq 0.5\text{dB}$	
Lens End Face Angle	Flat-polished	
Wavelength Used	1310nm, 1550nm	
Optical Fiber	SMF, PMF (strand diameter 250 μm)	
Connector	FC, SC, SMA	

Note: The beam waist diameter and beam waist position are design values, and may not meet the specifications that have been specified. Specifications other than the above can also be custom-designed. Please contact our International Sales Division for more information.

Specifying Part Numbers

For single-core fiber focusers

FF1- - 50 - 2.0 - -

Termination Type

01: Jacket type (adhesive-free)
02: Jacket type (adhesive)
00: Bare type

Beam waist diameter

50: 50 μm

Beam waist position

2.0: $\leq 2\text{mm}$

Fiber Type and Fiber Diameter

SMF2: SMF, 2m
PMF1: PMF, 1m

Connector Type

FC: FC connector
SC: SC connector
SMA: SMA connector
0: No connector

For single-core fiber fine focusers

FFF1- - 8 - 50 - -

Termination Type

01: Jacket type (adhesive-free)
02: Jacket type (adhesive)
00: Bare type

Beam waist diameter

8: 8 μm

Beam waist position

50: 50 μm

Fiber Type and Fiber Diameter

SMF2: SMF, 2m
PMF1: PMF, 1m

Connector Type

FC: FC connector
SC: SC connector
SMA: SMA connector
0: No connector