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Understanding Collimation to Determine Optical Lens Focal Length

*OFS OPTICS:  
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Build an Optical Collimator

**Injecting a laser beam into an optical fiber** ~~Cleave a Large-~~



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~~Fiber~~ *Thorlabs: Haas Makes Light Work — Customer Documentary*

## **Quick Tips for Cleaning Optics**

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Optical Fiber. Thorlabs' full line of optical fiber and fiber optic components are presented here.

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This includes our industry-leading selection of bare optical fiber and fiber optic patch cables as standard stock items. In addition, custom fiber patch cables can be ordered and shipped within 24 hours. Also available is an extensive line of optical fiber

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Thorlabs manufactures and stocks a range of optical fibers and patch cables based on single mode (SM), polarization maintaining (PM), multimode (MM), or specialty (e.g., photonic crystal, double clad, and rare-earth doped) fiber. Choose from

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FC/PC, FC/APC, or SMA connectors. For use in the mid-IR spectral range, we also offer our IRphotonics® line of fluoride optical fiber.

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Optical Fiber & Fiber Patch Cables

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Thorlabs specializes in the building blocks for laser and fiber optic systems. From optomechanical components to telecom test instrumentation, Thorlabs' extensive manufacturing capabilities allow

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Optical Circulators are non-reciprocating, one-directional, three port devices which are great for bidirectional propagation of light in a single fiber. Our Single Mode (SM) and Polarization-Maintaining (PM) Circulators are ideal for advanced

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communication systems and fiber sensor applications. Our single mode circulators also include a broadband circulator for OCT.

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Fiber Optic Circulators - Thorlabs  
Thorlabs' single mode optical

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fibers are available for operating wavelengths from 300 nm to 2.3  $\mu\text{m}$ . Our selection includes high-NA fiber, non-zero dispersion-shifted fiber, photosensitive fiber, double-clad fiber, and polyimide-coated optical fiber for applications with ultrashort

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pulses. In addition, we offer a variety of specialty rare-earth doped single mode optical fibers, including ytterbium and erbium.

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Single Mode Optical Fiber -  
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Thorlabs' multimode optical fibers include hard-clad silica fibers, small- and large-core fibers, and fiber with very high or low numerical apertures. Additional multimode optical fiber offerings include graded-index, double-clad, and square-core fibers as

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well as multimode fluoride fiber for use in the mid-IR.

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Multimode Optical Fiber -  
Thorlabs  
Fused Fiber Optic WDMs.  
Thorlabs' Wavelength Division

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Multiplexers (WDMs), also known as wavelength combiners or splitters, are used to combine or separate signals. We offer 2-wavelength fiber WDMs for visible, visible/NIR, or IR wavelengths, 3-wavelength fiber WDMs, and polarization-

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maintaining fiber WDMs. Infrared wavelength WDMs are an ideal solution for combining pump and signal powers or for combining or separating telecom signals.

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Fused Fiber Optic WDMs -

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Fiber Components Thorlabs offers a wide variety of collimation and coupling components that can be used to effectively collimate or couple light out of and into FC/PC, FC/APC, or SMA terminated fiber.

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Thorlabs' fused fiber color combiners, also known as wavelength division multiplexers (WDMs), allow up to four single-mode signals to be combined into a single output fiber. These color

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combiners are reversible; they can also be used to split up to four wavelengths entering the common port into sepa

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405 nm Single Mode Two-, Three-, or Four-Color Combiners

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Multi-element systems like beam expanders and objective lenses as well as interferometers, fiber collimators, reference cells, modulators, and other optical devices can be found by choosing the optical systems link. Thorlabs also manufactures an extensive

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line of free-space and fiber optic isolators; stock items ship the same day that they are ordered while our custom orders benefit from our streamlined design and manufacturing process, which minimizes lead time.

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Fiber connectorization begins with selecting an optical fiber and connector compatible with your system. This section covers a wide variety of single mode (SM) and multimode (MM) fibers and

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connectors. Visit [www.thorlabs.com](http://www.thorlabs.com) for a wide variety of optical fiber components.

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Guide to Connectorization and Polishing Optical Fibers

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Fused Fiber Optic Couplers / Splitters Thorlabs offers a varied selection of single mode (SM), polarization-maintaining (PM), multimode (MM), and double-clad fiber couplers, as well as single mode 1x8 and 1x16 PLC waveguide splitters, wideband



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multimode circulators, RGB combiners, and WDMs.

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Fused Fiber Optic Couplers / Splitters - Thorlabs

Thorlabs offers a varied selection of double-clad, single mode,

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multimode, and polarization-maintaining fiber couplers as well as single mode 1x8 and 1x16 PLC waveguide splitters, RGB combiners, and WDMs. Our SM and double-clad fiber coupler offerings also include a selection of components ideal for OCT

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applications. SM 1x2 Fiber Couplers

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manufactures system-level solutions as well as building-blocks for the industry, including optomechanics, motion control, optical components, fiber, lasers, optoelectronics, and imaging components in our 20,000 product catalog. Products & Press

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Jessup, MD in the Baltimore-Washington area. Candidate will work as part of the Fiber Laser R&D team to research and develop scientific fiber laser technologies.

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