

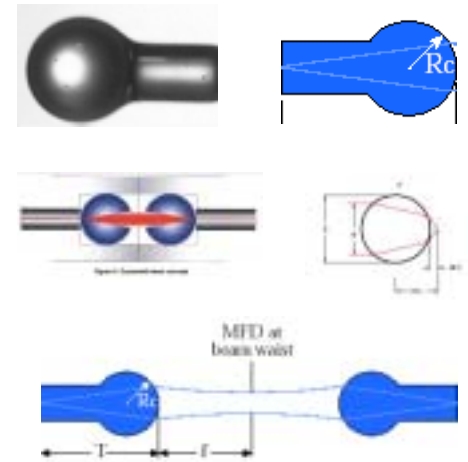
# Ball Lensed Fibers

LaseOptics Ball Lens Fibers are rapidly becoming the method of choice for interfacing optical fiber to multi mode laser coupling and beam collimating. Lensing technology provides highly efficient couplings and collimating while consuming a fraction of the space and costs of bulk optic alternatives.

Almost all known lens types have been used to construct fiber optic collimators. These lenses include fiber lenses, ball lenses, a spherical lenses, and GRIN lenses, microscope objectives, cylindrical lenses, no lens at all as in the case of thermally expanded core (TEC) fiber. Lens materials can vary from glass to plastic to silicon. By a large margin, most of the fiber optic collimators used today are made using GRIN lenses. GRIN lenses are small, easy to handle, relatively low cost, and competitive in optical performance. However LaseOptics can make for you with optical lensed fibers.

LaseOptics Advanced Fiber Assembly platform allows OEMs to consolidate suppliers of metallized fiber, hermetic sleeves, AR coatings, Lensing, Fiber Bragg Gratings and connectorization into a single source for the entire pigtail assembly.

LaseOptics offer different Ball sizes in single mode, PM and multi mode according to customers' specifications. Additionally we are producing tapered fibers for other applications.



### FEATURES:

- Increased Coupling Efficiency**
- Increased Performance**
- Increased Reliability**
- Increased Reproducibility**
- Increased Value & Flexibility**

### APPLICATIONS:

- Multi Mode Laser Coupling**
- Collimating Beam**
- Bio-Medical & Sensors**

Fiber Type	SMF-28, 50/125, 62.5/125...or Multi Mode; PM
Jacket, Protection Type	250µm Bare Fiber, 900µm Tube, 3mm Jacket
Connector Type	FC/PC, FC/APC, SC, ST, SMA, LC
Strip-off Length (mm)	7 ±1mm Typical; or otherwise specified
Operational Wavelength Range	400nm – 1700nm
Ball Diameter (µm)	225-300 µm Typical
Focal Length/Working Distance (µm)	100-900 (µm) Typical
Tapering Angle (degree)	30- 170
Ferrule Accessories, V-Groove	Kovar Ferrule, Steel Ferrule or Silica V-Groove
Radius of Lensed Fiber-End Surface (µm)	50-225 (µm)
End Surface Coating	Option: AR or Mirror

### Contact Information:

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**LaseOptics:** Laser applications in science & engineering with Optics