



## Lensed Fiber

Lensed fiber, also called fiber lens, is a piece of fiber which forms a lens shape at the end face, and is used to change the optical path, or coupling light in the optical fiber systems. Based on the specific requirement of different applications, there are tapered, wedged, angle wedged, beveled, and spherical lens, etc. It's a key component in LD coupling, waveguide coupling, high speed receiver and PIC etc.

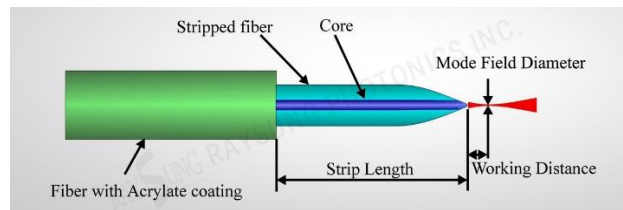
We make lensed fiber by mechanical polishing, achieve best performance by precise control of geometrical parameters, Different shapes, AR Coating and metallization are available.

### Specifications(Taper Lensed Fiber)

Parameters	Values	tolerance	unit
Wavelength Range	400 ~ 2100		nm
Strip Length	$\geq 5$	$\pm 1$	mm
Taper Angle	60-120	$\pm 5$	degree
Lens Radius <sup>[1]</sup>	4 - 16	$\pm 1$	um
Beam Spot Diameter <sup>[1]</sup>	2 – 6.5	$\pm 0.5$	um
PER <sup>[2]</sup>	$\geq 20$		dB
Working distance <sup>[3]</sup>	3 - 30		um
AR coating(optional)	$\leq 0.5$ or $\leq 0.3$		%

[1]: For 1310-1610nm

[2]: For PM fiber version



### Specifications(Angle Wedge Lensed Fiber)

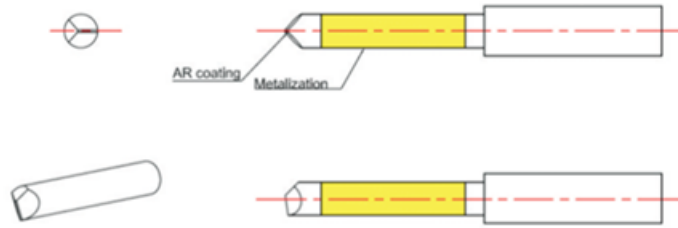
Parameters	Values	tolerance	unit
Wavelength Range	400 ~ 2100		nm
Strip Length	$\geq 10$	$\pm 1$	mm
Wedge Angle	90, 100 or custom	$\pm 5$	degree
Bevel Angle(typical)	45 or custom	$\pm 5$	degree
AR Angle	8, 12 or custom	$\pm 1$	degree
Cylindrical Lens Radius <sup>[1]</sup>	4 - 14	$\pm 1$	um
PER <sup>[2]</sup>	$\geq 20$		dB
Far Field Ellipticity	1:2 – 1:5		
Working distance <sup>[3]</sup>	10 - 30		um
AR coating(optional)	$\leq 0.5$ or $\leq 0.3$		%
Metalization(optional, Au)	$\leq 0.1$		um

[1]: For 980/1060nm

[2]: For PM fiber version



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We provide customized lensed fiber like beveled lensed fiber, double curvature lensed fiber etc. We also provide lensed fiber assemblies like v-groove, quartz tube, ceramic ferrule etc. Please [Contact us](#) to discuss your details requirements.

### Ordering information:

LF -	Type	wavelength	Angle	Fiber Type	AR	Metallization	Fiber Lead	Connector	-CPN
	T: Taper	400nm	60	SM	0.3%	1	0.5m	None	Issue a CPN# for your convenience of re-ordering
	A: Angle Wedge	532nm	100	PM	0.5%		1.0m	FC/UPC	
		780nm	100/4	...	...		...	FC/APC	
	B: Bevel	850nm	5/8(A					LC/UPC	
	D: Double curvature	940nm	W type)					LC/APC	
	...	1060nm	...					SC/UPC	
		1310nm						SC/APC	
		1480nm						E2000/UPC	
		1550nm						E2000/APC	
		...						specified	
								...	