

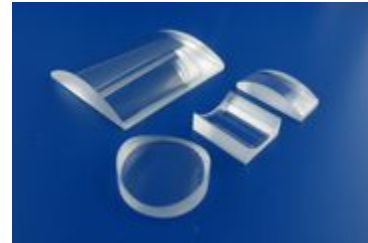
**Cylindrical Lens** has at least one surface that is formed like a portion of a cylinder. These patented gradient-index cylindrical microlenses with Luneburg type refractive index distribution are drawn from a highly polished gradient-index fiber preform. A simple tuning of the drawing process produces diffraction-limited microlenses in the shape of fibers or rods with precise diameters and unsurpassed surface quality. When illuminated sideways, these fibers act as perfect cylindrical lenses with 0.5 NA. The fused silica cladding and the gradient-index core of these lenses withstand very high temperatures (transition temperature is  $\approx 1100^{\circ}\text{C}$ ).

■ **Plano-Convex:**

Flat convex lens is the ideal choice of the one dimensional amplifier application.

■ **Plano-Concave:**

The Concave to the parallel light incident side, when using Plano-concave cylindrical lens the spherical aberration is minimal.



**Specification:**

Spec	High	Moderate
Surface Quality	20-10 S/D	60-40 S/D
Diameter Tolerance	+0/-0.1mm	+0/-0.2mm
Tilt Tolerance	+/-0.1mm	+/-0.2mm
Wedge Angle Tolerance	<7 Arc	<15 Arc
Surface Accurate	Lambda/8	Lambda/2