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GLASS COMPONENTS

- Singlet lens
- Cemented Lens
- Cylindrical lens**
- Optical Prisms
- Optical flats
- Beam Splitters

Plano-Concave Cylindrical Lenses

Focal Lengths Available	from -5.0 to -1000.0 mm
Focal Lengths Tolerance:	±1%
Dimension:	1.0~200.0mm
Scratch & Dig:	80/50~40/20
Center Error:	5arc min ~ 3 arc min

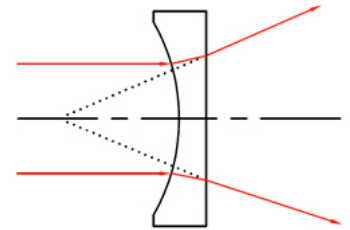
Plano-Concave Cylindrical Lenses act as plano-concave spherical lenses, except on only one axis. These lenses are used in applications that require one dimensional shaping of a light source. A typical application is to use a single cylindrical lens to turn a collimated laser into a line generator. Pairs of cylindrical lenses may be used to anamorphically shape images. To minimize the introduction of aberration, the curved surface of the lens should face the source when used to diverge a beam.

The focal length of each lens can be calculated using the following equation:

$$f = R / (n - 1),$$

where n is the index of refraction and R1,R2 is the radius of curvature for each surface of the lens.

They can be also coated with MgF2 to protect the surface or AR coated to increase the transmission.



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