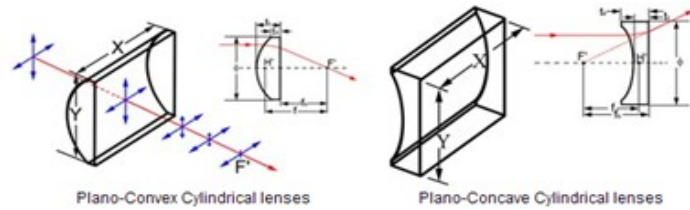


Cylindrical Lens

Cylindrical lens is used to provide focusing power in one section only. For illumination or detection of light from line sources. Also used to anamorphic compression of beams and images. Especially widely used to anamorphic compression of LD (laser diode) output beam.

Application:

- Laser Measurements System
- Bar Code Scanning
- Projection Optics System
- Holography



Specification:

Material	BK7 or Fused Silica
Design Wavelength	632.8 nm
Design Index:	
BK7	$n=1.5147\pm 0.0005$
Fused Silica	$n=1.45702\pm 0.00005$
Surface Figure	x: $\lambda/2$; y: 2λ
Diameter Tolerance	+0.00, -0.15 mm
Thickness Tolerance	± 0.2 mm
Paraxial Focal Length	$\pm 2\%$
Centration	<3 arc minutes
Clear Aperture	>85%
Surface Quality	60-40 scratch and dig
Protective Bevel	0.25 mm x 45°

BK7 Plano-Convex Cylindrical Lens Standard Products:

Part No.	X×Y (mm)	f (mm)	R ₁ (mm)	t _c (mm)	t _e (mm)	f _b (mm)
TXC101	10.0×10.0	12.7	6.54	4.3	2.0	9.8
TXC102	20.0×10.0	12.7	6.54	4.3	2.0	9.8
TXC103	10.0×10.0	20.0	10.29	3.3	2.0	17.8
TXC104	20.0×10.0	20.0	10.29	3.3	2.0	17.8
TXC105	10.0×10.0	25.0	12.87	3.0	2.0	23.0
TXC106	20.0×10.0	25.0	12.87	3.0	2.0	23.0

Note: Other size, material and coatings are available upon request.

BK7 Plano-Concave Cylindrical Lens Standard Products:

Part No.	X×Y (mm)	f (mm)	R ₁ (mm)	t _c (mm)	t _e (mm)	f _b (mm)
TEC201	10.0×10.0	-12.7	6.54	4.3	2.0	-14
TEC202	20.0×10.0	-12.7	6.54	4.3	2.0	-14
TEC203	10.0×10.0	-25.0	12.87	3.0	2.0	-26.3
TEC204	20.0×10.0	-25.0	12.87	3.0	2.0	-26.3

Note: Other size, material and coatings are available upon request.