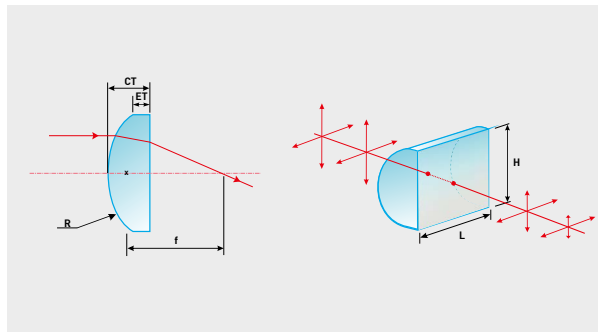
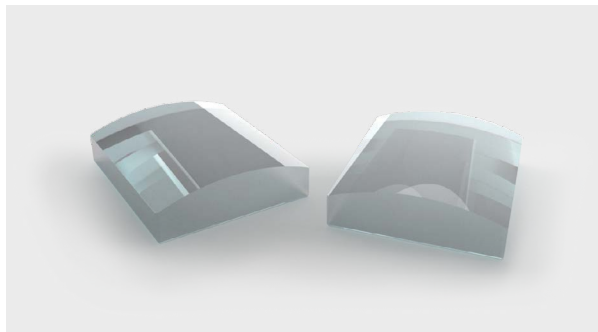


## Plano-convex cylindrical lenses



Plano-convex cylindrical lenses feature single plano and single convex cylindrical surface, while their focal length is positive. These lenses operate only in one dimension rather than two, compared to plano-

convex spherical lenses. Plano-convex cylindrical lenses provide the best performance at the same operating conditions as plano-convex spherical lenses: from 5X to finite-conjugate ratio.

### Main features

- Fabricated from high-quality UV grade fused silica, BK7 glasses
- Standard face dimensions are 25,4 x 25,4 mm and 25,4 x 50,8 mm
- Focal length selection from 50 mm to 10000 mm
- Antireflective coatings, custom substrate material, dimensions, and focal lengths available upon request

### Application examples

- Coupling into a slit or linear shape detectors
- Anamorphic beam shaping
- Astigmatism correction of laser diode beam

### Standard specifications

PLANO-CONVEX CYLINDRICAL LENSES	
Substrate material	BK7, UVFS
Wavelength range	Uncoated BK7 lenses: 350 nm - 2 μm Uncoated UVFS lenses: 185 nm - 2,1 μm
Clear aperture	>90%
Diameter tolerance	+0/-0,1 mm
Edge thickness	2 mm
Thickness tolerance	±0,5 mm
Centration error	<3 arcmin
Focal length tolerance	±3% @ 632,8 nm
Protective chamfers	<0,35 mm at 45°
Surface quality	40-20 S-D
Surface irregularity	<λ/4 @ 632,8 nm
Coatings	Uncoated, available upon request

### Standard products

MATERIAL	FACE DIMENSIONS H X L	FOCAL LENGTH	SKU	PRICE
BK7	25,4 x 25,4 mm	50 mm	7596	55 €
		75 mm	7598	55 €
		150 mm	7603	55 €
		200 mm	7604	55 €
		250 mm	7605	55 €
	25,4 x 50,8 mm	300 mm	7606	55 €
		500 mm	7609	55 €
		100 mm	7600	95 €
		300 mm	7607	90 €
		500 mm	7610	90 €
UVFS	25,4 x 25,4 mm	750 mm	7611	90 €
		2000 mm	7612	90 €
	25,4 x 50,8 mm	10000 mm	7613	90 €
		50 mm	7587	95 €
		75 mm	7589	95 €
		30 mm	7582	165 €
		50 mm	7583	165 €
		75 mm	7584	165 €
		100 mm	7585	160 €
		150 mm	7586	160 €
200 mm		7588	160 €	
250 mm		7590	160 €	
UVFS	25,4 x 50,8 mm	300 mm	7591	160 €
		400 mm	7592	160 €
		500 mm	7593	160 €
		750 mm	7594	160 €
		1000 mm	7595	160 €