

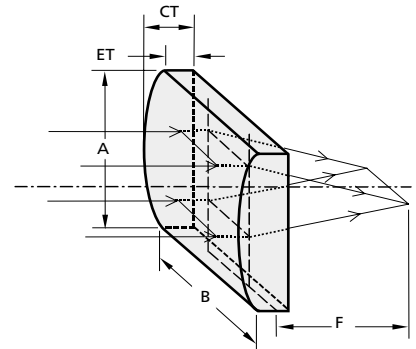
PLANO – CYLINDRICAL LENSES

condense or expand light in one dimension only
ideal for producing line images, for scanning and projection

We offer a selection of either plano-convex or plano-concave in form and rectangular in shape cylindrical lenses. These lenses are used to focus light to a thin line in laser scanners, spectroscopy, dye lasers, acousto-optics, optical processors and other similar applications. They are the best for circularization of diode laser outputs, energy collection for linear detectors or for coupling to a slit input.

Earlier remarks made about plano-convex and plano-concave spherical lenses, with regard to aberrations and conjugate ratios, are also applicable to cylindrical lenses.

A variety of anti-reflection coatings is available for these lenses. For appropriate coating please refer to the Coatings section.



SPECIFICATIONS

Material	BK7, FS, UV FS
Surface quality	60-40 scratch & dig
Clear aperture	90% of the diameter
Dimension tolerance	+0.00, -0.12 mm
Thickness tolerance	±0.5 mm
Surface figure	1 λ @ 633 nm
Paraxial focal length	BK7 ±2% @ 546 nm FS, UV FS ±2% @ 355 nm

Most of lenses are available from stock and can be shipped to you the same day when order is placed.

If you don't see exactly the lens that you need give us a call. We have a wide range of special focal lengths, diameters, and coatings.

BK7 PLANO-CONVEX CYLINDRICAL LENSES

Cat. No.	Dimensions Metric		Dimensions English		Focal length F, mm	Centre thickness CT, mm	Edge thickness ET, mm
	A, mm	B, mm	A, mm	B, mm			
120-0105	10.0	10.0	12.7	12.7	15	3.7	1.5
120-0110	19.0	25.0	19.1	25.4	25	6.1	2.0
120-0205	25.0	50.0	25.4	50.8	50	5.2	2.0
120-0210	25.0	50.0	25.4	50.8	75	4.1	2.0
120-0215	25.0	50.0	25.4	50.8	100	3.5	2.0
120-0220	25.0	50.0	25.4	50.8	150	3.0	2.0
120-0225	25.0	50.0	25.4	50.8	200	2.8	2.0
120-0230	25.0	50.0	25.4	50.8	300	2.5	2.0
120-0235	25.0	50.0	25.4	50.8	500	2.4	2.0
120-0240	25.0	50.0	25.4	50.8	1000	2.3	2.0
120-0245	25.0	50.0	25.4	50.8	1500	2.2	2.0

For metric dimensions please add to catalogue number code M, for English – code E.

UV FS & FS PLANO-CONVEX CYLINDRICAL LENSES

Catalogue number		Dimensions Metric		Dimensions English		Focal length	Centre thickness	Edge thickness
UVFS	FS	A, mm	B, mm	A, mm	B, mm	F, mm	CT, mm	ET, mm
120-1105	120-3105	19.0	25.0	19.1	25.4	25	8.0	3.0
120-1205	120-3205	25.0	50.0	25.4	50.8	50	7.1	3.5
120-1210	120-3210	25.0	50.0	25.4	50.8	75	5.6	3.3
120-1215	120-3215	25.0	50.0	25.4	50.8	100	4.7	3.0
120-1220	120-3220	25.0	50.0	25.4	50.8	150	4.1	3.0
120-1225	120-3225	25.0	50.0	25.4	50.8	200	4.3	3.5
120-1230	120-3230	25.0	50.0	25.4	50.8	300	4.1	3.5
120-1235	120-3235	25.0	50.0	25.4	50.8	500	3.4	3.5
120-1240	120-3240	25.0	50.0	25.4	50.8	1000	2.5	2.3
120-1245	120-3245	25.0	50.0	25.4	50.8	1500	2.2	2.0

For metric dimensions please add to catalogue number code M, for English – code E.

BK7 PLANO-CONCAVE CYLINDRICAL LENSES

Cat. No.	Dimensions Metric		Dimensions English		Focal length	Centre thickness	Edge thickness
BK7	A, mm	B, mm	A, mm	B, mm	F, mm	CT, mm	ET, mm
122-0105	10.0	10.0	12.7	12.7	-15	1.4	3.7
122-0110	19.0	25.0	19.1	25.4	-25	2.0	6.0
122-0205	25.0	50.0	25.4	50.8	-50	2.0	5.2
122-0210	25.0	50.0	25.4	50.8	-75	2.0	4.1
122-0215	25.0	50.0	25.4	50.8	-100	2.0	3.5
122-0220	25.0	50.0	25.4	50.8	-150	2.0	3.0
122-0225	25.0	50.0	25.4	50.8	-200	2.0	2.8
122-0230	25.0	50.0	25.4	50.8	-300	2.0	2.5
122-0235	25.0	50.0	25.4	50.8	-500	2.0	2.4

For metric dimensions please add to catalogue number code M, for English – code E.

UV FS & FS PLANO-CONCAVE CYLINDRICAL LENSES

Catalogue number		Dimensions Metric		Dimensions English		Focal length	Centre thickness	Edge thickness
UVFS	FS	A, mm	B, mm	A, mm	B, mm	F, mm	CT, mm	ET, mm
122-1105	122-3105	19.0	25.0	19.1	25.4	-25	3.0	8.0
122-1205	122-3205	25.0	50.0	25.4	50.8	-50	3.5	7.1
122-1210	122-3210	25.0	50.0	25.4	50.8	-75	3.3	5.6
122-1215	122-3215	25.0	50.0	25.4	50.8	-100	3.0	4.7
122-1220	122-3220	25.0	50.0	25.4	50.8	-150	3.0	4.1
122-1225	122-3225	25.0	50.0	25.4	50.8	-200	3.8	4.6
122-1230	122-3230	25.0	50.0	25.4	50.8	-300	3.5	4.1
122-1235	122-3235	25.0	50.0	25.4	50.8	-500	3.5	3.4

For metric dimensions please add to catalogue number code M, for English – code E.

Please contact **EKSMA** for other size, focus or precision requirements.

We can supply custom cutting, edging, coating or complete fabrication if required.

If you do not find what you need in our list of stock items, please send your specification or drawings for a custom quotation.