

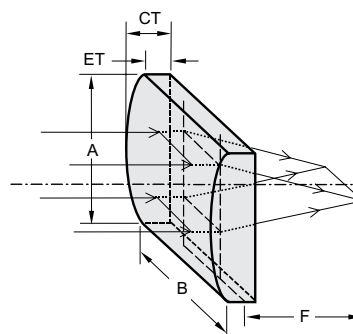
PLANO-CYLINDRICAL LENSES

- Condense or expand light in one dimension only
- Ideal for producing line images, for scanning and projection

We offer a selection of cylindrical lenses that are either plano-convex or plano-concave in form and rectangular in shape. 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 circularisation 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 an appropriate coating, please refer to the Coatings section.*



SPECIFICATIONS

Material	BK7, UV FS
Surface quality	40-20 scratch & dig (MIL-PRF-13830B)
Clear aperture	90% of the diameter
Size tolerance	±0.5 mm
Thickness tolerance	±0.5 mm
Surface irregularity	1λ @ 633 nm
Paraxial focal length	BK7 ±2% @ 546 nm
	UV FS ±2% @ 355 nm

Please contact us for other size, focus or precision requirements. We can supply custom cutting, edging, coating or complete fabrication if required.

BK7 Plano-Convex Cylindrical Lenses

Catalogue number BK7	Dimensions Metric		Dimensions English		Focal length F, mm	Centre thickness CT, mm	Edge thickness ET, mm	Price, EUR
	A, mm	B, mm	A, mm	B, mm				
120-0105	10.0	10.0	12.7	12.7	15	3.7	1.5	40
120-0110	19.0	25.0	19.1	25.4	25	6.1	2.0	60
120-0204	25.0	25.0	25.4	25.4	50	5.2	2.0	55
120-0205	25.0	50.0	25.4	50.8	50	5.2	2.0	85
120-0209	25.0	25.0	25.4	25.4	75	4.1	2.0	55
120-0210	25.0	50.0	25.4	50.8	75	4.1	2.0	85
120-0214	25.0	25.0	25.4	25.4	100	3.5	2.0	55
120-0215	25.0	50.0	25.4	50.8	100	3.5	2.0	85
120-0219	25.0	25.0	25.4	25.4	150	3.0	2.0	55
120-0220	25.0	50.0	25.4	50.8	150	3.0	2.0	85
120-0224	25.0	25.0	25.4	25.4	200	2.8	2.0	55
120-0225	25.0	50.0	25.4	50.8	200	2.8	2.0	85
120-0229	25.0	25.0	25.4	25.4	300	2.5	2.0	55
120-0230	25.0	50.0	25.4	50.8	300	2.5	2.0	85
120-0234	25.0	25.0	25.4	25.4	500	2.4	2.0	55
120-0235	25.0	50.0	25.4	50.8	500	2.4	2.0	95
120-0239	25.0	25.0	25.4	25.4	1000	2.3	2.0	59
120-0240	25.0	50.0	25.4	50.8	1000	2.3	2.0	95
120-0244	25.0	25.0	25.4	25.4	1500	2.2	2.0	59
120-0245	25.0	50.0	25.4	50.8	1500	2.2	2.0	95

Please add letter M to the catalogue number for metric dimensions and letter E for English.

UV FS Plano-Convex Cylindrical Lenses

Catalogue number UV FS	Dimensions Metric		Dimensions English		Focal length F, mm	Centre thickness CT, mm	Edge thickness ET, mm	Price, EUR
	A, mm	B, mm	A, mm	B, mm				
120-1104	10.0	10.0	12.7	12.7	15	4.9	2.0	69
120-1105	19.0	25.0	19.1	25.4	25	8.0	3.0	97
120-1204	25.0	25.0	25.4	25.4	50	7.1	3.5	95
120-1205	25.0	50.0	25.4	50.8	50	7.1	3.5	170
120-1209	25.0	25.0	25.4	25.4	75	5.6	3.3	91
120-1210	25.0	50.0	25.4	50.8	75	5.6	3.3	170
120-1214	25.0	25.0	25.4	25.4	100	4.7	3.0	87
120-1215	25.0	50.0	25.4	50.8	100	4.7	3.0	161
120-1219	25.0	25.0	25.4	25.4	150	4.1	3.0	87
120-1220	25.0	50.0	25.4	50.8	150	4.1	3.0	161
120-1224	25.0	25.0	25.4	25.4	200	4.3	3.5	87
120-1225	25.0	50.0	25.4	50.8	200	4.3	3.5	161
120-1229	25.0	25.0	25.4	25.4	300	4.1	3.5	87
120-1230	25.0	50.0	25.4	50.8	300	4.1	3.5	161
120-1234	25.0	25.0	25.4	25.4	500	3.8	3.5	96
120-1235	25.0	50.0	25.4	50.8	500	3.8	3.5	179
120-1239	25.0	25.0	25.4	25.4	1000	2.5	2.3	95
120-1240	25.0	50.0	25.4	50.8	1000	2.5	2.3	177
120-1244	25.0	25.0	25.4	25.4	1500	2.2	2.0	95
120-1245	25.0	50.0	25.4	50.8	1500	2.2	2.0	177

Please add letter M to the catalogue number for metric dimensions and letter E for English.

BK7 Plano-Concave Cylindrical Lenses

Catalogue number BK7	Dimensions Metric		Dimensions English		Focal length F, mm	Centre thickness CT, mm	Edge thickness ET, mm	Price, EUR
	A, mm	B, mm	A, mm	B, mm				
122-0105	10.0	10.0	12.7	12.7	-15	1.4	3.7	40
122-0110	19.0	25.0	19.1	25.4	-25	2.0	6.0	60
122-0204	25.0	25.0	25.4	25.4	-50	2.0	5.2	55
122-0205	25.0	50.0	25.4	50.8	-50	2.0	5.2	85
122-0209	25.0	25.0	25.4	25.4	-75	2.0	4.1	55
122-0210	25.0	50.0	25.4	50.8	-75	2.0	4.1	85
122-0214	25.0	25.0	25.4	25.4	-100	2.0	3.5	55
122-0215	25.0	50.0	25.4	50.8	-100	2.0	3.5	85
122-0219	25.0	25.0	25.4	25.4	-150	2.0	3.0	55
122-0220	25.0	50.0	25.4	50.8	-150	2.0	3.0	85
122-0224	25.0	25.0	25.4	25.4	-200	2.0	2.8	55
122-0225	25.0	50.0	25.4	50.8	-200	2.0	2.8	85
122-0229	25.0	25.0	25.4	25.4	-300	2.0	2.5	55
122-0230	25.0	50.0	25.4	50.8	-300	2.0	2.5	85
122-0234	25.0	25.0	25.4	25.4	-500	2.0	2.4	59
122-0235	25.0	50.0	25.4	50.8	-500	2.0	2.4	95

Please add letter M to the catalogue number for metric dimensions and letter E for English.