

POSITIVE FRESNEL LENSES

Part Number	Focal Length	Facet Spacing	Fresnel Conjugate	Plano Conjugate	Clear Aperture	Thickness
SC 230	6.3 mm	0.102 mm	6.3 mm	infinity	10.0 mm	1.8 mm
SC 245	10.8 mm	0.125 mm	10.8 mm	infinity	6.4 mm	1.8 mm
SC 926	16.1 mm	0.102 mm	infinity	16.1 mm	7.0 mm	1.8 mm
SC 231	16.3 mm	0.127 mm	infinity	16.3 mm	18.0 mm	1.8 mm
SC 259	18.3 mm	0.254 mm	infinity	18.3 mm	17.3 mm	1.8 mm
SC 253	24.0 mm	0.475 mm	infinity	24.0 mm	23.3 mm	1.8 mm
SC 256	26.6 mm	0.508 mm	infinity	26.6 mm	59.7 mm	1.8 mm
SC 258	28.7 mm	0.635 mm	infinity	28.7 mm	45.0 mm	1.8 mm
SC 234	38.0 mm	0.381 mm	38.0 mm	infinity	56.3 mm	1.8 mm
SC 244	40.8 mm	0.381 mm	40.8 mm	infinity	86.9 mm	1.8 mm
SC 297	42.4 mm	0.076 mm	42.4 mm	infinity	29.8 mm	1.8 mm
SC 252	48.3 mm	0.076 mm	48.3 mm	infinity	63.3 mm	1.8 mm
SC 235	50.8 mm	0.229 mm	infinity	50.8 mm	77.0 mm	1.8 mm
SC 241	51.0 mm	0.762 mm	51.0 mm	infinity	109.8 mm	1.8 mm
SC 211	57.8 mm	0.076 mm	263.9 mm	74.0 mm	88.4 mm	1.8 mm
SC 277	68.5 mm	0.076 mm	infinity	68.5 mm	88.9 mm	1.8 mm
SC 250	69.6 mm	0.279 mm	infinity	69.6 mm	75.4 mm	1.8 mm
SC 236	72.5 mm	0.279 mm	infinity	72.5 mm	101.3 mm	1.8 mm
SC 251	76.3 mm	0.127 mm	76.3 mm	infinity	82.1 mm	1.8 mm
SC 237	77.5 mm	0.254 mm	infinity	77.5 mm	59.4 mm	1.8 mm
SC 949	97.1 mm	0.254 mm	infinity	97.1 mm	201.8 mm	1.8 mm
SC 242	101.1 mm	0.305 mm	101.1 mm	infinity	85.8 mm	1.8 mm
SC 239	102.8 mm	0.508 mm	infinity	102.8 mm	133.9 mm	1.8 mm
SC 228	111.8 mm	0.508 mm	infinity	111.8 mm	164.0 mm	1.8 mm
SC 255	128.3 mm	0.254 mm	infinity	128.3 mm	126.7 mm	1.8 mm
SC 948	129.1 mm	0.350 mm	infinity	129.1 mm	180.5 mm	1.8 mm
SC 209	137.8 mm	0.254 mm	infinity	137.8 mm	151.0 mm	1.8 mm
SC 248	151.7 mm	0.127 mm	151.7 mm	infinity	152.9 mm	1.8 mm
SC 249	152.0 mm	0.381 mm	152.0 mm	infinity	205.4 mm	1.8 mm
SC 223	152.8 mm	0.254 mm	infinity	152.8 mm	202.4 mm	1.8 mm
SC 246	203.0 mm	0.457 mm	infinity	203.0 mm	228.9 mm	1.8 mm
SC 950	219.0 mm	0.302 mm	infinity	219.0 mm	223.3 mm	1.8 mm
SC 210	225.5 mm	0.178 mm	2007.0 mm	254.0 mm	257.6 mm	1.8 mm

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SC 264	234.7 mm	0.508 mm	infinity	234.7 mm	253.1 mm	1.8 mm
SC 917	239.6 mm	0.152 mm	infinity	239.6 mm	386.4 mm	1.8 mm
SC 921	253.6 mm	0.254 mm	infinity	253.6 mm	179.0 x 128.4 mm ²	1.8 mm
SC 221	254.1 mm	0.508 mm	infinity	254.1 mm	255.8 mm	1.8 mm
SC 928	255.3 mm	0.152 mm	infinity	255.3 mm	386.6 mm	1.8 mm
SC 208	279.3 mm	0.508 mm	infinity	279.3 mm	405.8 mm	1.8 mm
SC 205	282.8 mm	0.076 mm	610.0 mm	531.5 mm	330.4 mm	1.8 mm
SC 268	304.6 mm	0.508 mm	infinity	304.6 mm	291.9 mm	1.8 mm
SC 240	317.0 mm	0.205 mm	infinity	317.0 mm	382.4 mm	1.8 mm
SC 934	336.5 mm	0.152 mm	infinity	336.5 mm	386.0 mm	1.8 mm
SC 265	385.6 mm	0.508 mm	626.9 mm	1013.6 mm	324.0 mm	1.8 mm
SC 2045	391.5 mm	0.508 mm	6096.0 mm	419.0 mm	452.9 mm	1.8 mm
SC 229	400.0 mm	0.508 mm	infinity	400.0 mm	386.0 mm	1.8 mm
SC 903	500.5 mm	0.508 mm	1500.0 mm	750.0 mm	657.0 mm	2.5 mm
SC 943	502.1 mm	0.100 mm	infinity	502.1 mm	549.7 mm	2.5 mm
SC 273	505.5 mm	0.203 mm	749.0 mm	1575.0 mm	405.9 mm	1.8 mm
SC 214	607.8 mm	0.508 mm	infinity	607.8 mm	460.9 mm	1.8 mm
SC 922	698.6 mm	0.508 mm	infinity	698.6 mm	615.7 mm	2.5 mm
SC 213-600	763.4 mm	0.508 mm	infinity	763.4 mm	600.0 x 590.0 mm ²	2.5 mm
SC 2135	764.0 mm	0.508 mm	infinity	764.0 mm	437.3 mm	2.5 mm

Notes:

- Focal lengths listed apply to 546 nm for PMMA (tolerance $\pm 5\%$).
- The standard material used is PMMA (refractive index = 1.49; relative dispersion = 58). Other materials are available.
- The mentioned thickness value is our standard thickness. Other thicknesses (≥ 0.8 mm) are possible.
- Outside diameter / size may be up to 5 – 20 mm beyond clear aperture. Other dimensions or special trimmings can be realized upon request.
- To determine the number of lines per mm, use 1/facet spacing.
- Special designs possible on request.
- All specification are subject to change without prior notice.

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