BESTFORM LASER LENS

When focusing a laser beam to a minimum spot, the shape of a single element lens that most effectively reduces spherical aberration is called bestform.

The front and back radii of these optical lenses are chosen to be of a specific ratio; determined by the proper shape factor, which is governed by the lens material. We provide optic lenses with excellent surface quality, a characteristic that is necessary for limiting scatter and bringing our customers optimal results. Anti-reflective and other thin-film coatings are available upon request.

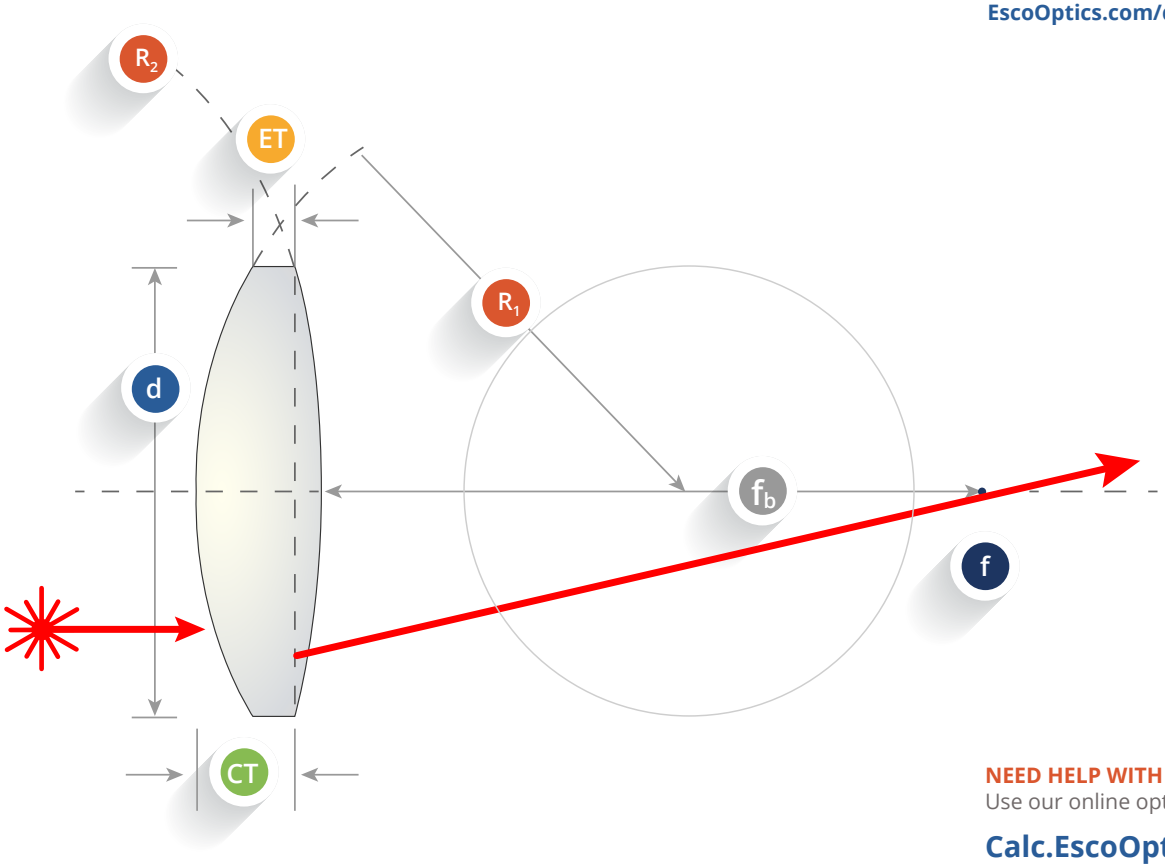
Please see catalog specifications on page 2.

N-BK7/S-BSL 7 Optical Glass

S1 UV Grade Fused Silica

For more information on these lenses or custom applications, please contact us at **sales@EscoOptics.com**

For small or large run custom lenses please visit **EscoOptics.com/quote**



NEED HELP WITH A CALCULATION?
Use our online optical calculator

Calc.EscoOptics.com

Focal Length Tolerance	+/- 3%	Surface Accuracy	λ/10 or better over 80% clear aperture
Diameter Tolerance	+/- 0.15 mm	Surface Quality	60-40 scratch-dig
Thickness Tolerance	+/- 0.5 mm	Edges	Fine ground and beveled
Centration	<3′		

All dimensions in mm unless otherwise specified

	P/N	f_{nom}	Diameter	λ_{des}	CT	ET	EFL_{des}	BFL_{des}	Beam Diameter	Spot Diameter
S1-UVA Fused Silica	A610510	10	5.0	325 nm	2.6	1.5	11.1	9.6	1.0	4.6 µm
	A611220	20	12.7	325 nm	5.6	1.5	19.4	16.1	2.0	4.0 µm
	A612510	100	25.4	325 nm	4.4	1.5	100.4	97.9	8.0	5.2 µm
	A612525	250	25.4	325 nm	2.6	1.5	248.5	247.0	15.0	6.8 µm
	A615011	1100	50.8	325 nm	3.1	2.0	1087.8	1086.0	45.0	9.9 µm
	A650510	10	5.0	1064 nm	2.6	1.5	11.6	10.1	1.0	15.7 µm
	A651220	20	12.7	1064 nm	5.6	1.5	20.1	16.8	2.0	13.5 µm
	A652510	100	25.4	1064 nm	4.5	1.5	102.4	99.8	8.0	18.6 µm
	A652525	250	25.4	1064 nm	2.7	1.5	248.9	247.4	15.0	23.4 µm
	A655011	1100	50.8	1064 nm	3.0	2.0	1109.5	1107.8	45.0	33.4 µm

	P/N	f_{nom}	Diameter	λ_{des}	CT	ET	EFL_{des}	BFL_{des}	Beam Diameter	Spot Diameter
N-BK7/S-BSL7 Optical Glass	A630510	10	5.0	633 nm	2.6	1.5	10.5	9.0	1.0	8.6 µm
	A631220	20	12.7	633 nm	5.6	1.5	20.4	17.4	2.0	8.2 µm
	A632510	100	25.4	633 nm	4.2	1.5	101.2	98.8	8.0	10.2 µm
	A632525	250	25.4	633 nm	2.6	1.5	244.0	242.5	15.0	13.1 µm
	A635011	1100	50.8	633 nm	2.9	2.0	1133.5	1131.9	45.0	20.3 µm