

UV FUSED SILICA PLANO-CONCAVE LENSES

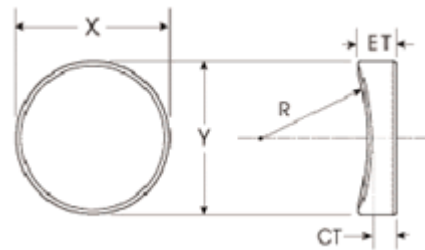
Spherical plano concave lenses of fused silica are mostly used for UV monochromatic lights. Fused silica has almost same performance of transmittance with BK7 in visual and near IR, but has higher performance than BK7 in UV.

These lenses are useful when parallel beams are converged or lights from point sources are converted to parallel beams, namely at infinite conjugate ratios.

Non-coated and AR coated products are available as well.

Standard Specifications:

Optical Material:	UV Grade Fused Silica
Diameter Tolerance:	+0.0, -0.15mm
Design Wavelength:	546.1nm
Design Index:	1.46008±0.00005nm
Paraxial Focal Length:	±2%
Centration:	3 arc minutes
Clear Aperture:	>85%
Surface Quality:	60-40 scratch and dig
Wavefront Distortion:	lambda/4 at 632.8nm
Bevel:	<0.25mm X 45°
Coating:	available upon request



Standard UV Fused Silica Plano-Concave Lenses:

Dia(mm)	f(mm)	R1(mm)	te(mm)	tc(mm)	Fb(mm)	Product Number
12.7	-15.0	6.90	6.2	2.0	-10.8	UQT-PLCAF0201
12.7	-20.0	9.20	4.5	2.0	-16.9	UQT-PLCAF0202
12.7	-25.0	11.50	3.9	2.0	-22.3	UQT-PLCAF0203
12.7	-30.0	13.80	3.6	2.0	-27.5	UQT-PLCAF0204
12.7	-40.0	18.40	3.1	2.0	-37.9	UQT-PLCAF0205
25.4	-35.0	16.10	8.2	2.0	-29.4	UQT-PLCAF0206
25.4	-50.0	23.00	5.8	2.0	-46.0	UQT-PLCAF0207
25.4	-75.0	34.51	4.4	2.0	-72.0	UQT-PLCAF0208
25.4	-100.0	46.01	3.8	2.0	-97.4	UQT-PLCAF0209
25.4	-150.0	69.01	3.2	2.0	-147.8	UQT-PLCAF0210
25.4	-175.0	80.51	3.0	2.0	-172.9	UQT-PLCAF0211
25.4	-200.0	92.02	2.9	2.0	-198.0	UQT-PLCAF0212
25.4	-250.0	115.02	2.7	2.0	-248.2	UQT-PLCAF0213
25.4	-300.0	138.02	2.6	2.0	-298.2	UQT-PLCAF0214
25.4	-500.0	230.04	2.4	2.0	-498.4	UQT-PLCAF0215
25.4	-1000.0	460.08	2.2	2.0	-998.5	UQT-PLCAF0216
38.0	-50.0	23.00	13.0	3.0	-41.1	UQT-PLCAF0217

38.0	-100.0	46.01	7.1	3.0	-95.1	UQT-PLCAF0218
38.0	-150.0	69.01	5.7	3.0	-146.1	UQT-PLCAF0219
38.0	-200.0	92.02	5.0	3.0	-196.6	UQT-PLCAF0220
38.0	-350.0	161.03	4.1	3.0	-347.2	UQT-PLCAF0221
38.0	-500.0	230.04	3.8	3.0	-497.4	UQT-PLCAF0222

Please Contact [ultiQuest](#) for other dimensions in prototype and production quantities.

NOTES!

- The edge thicknesses are theoretical values not including chamfer.
- Be sure to wear laser safety goggles when checking optical path and adjusting optical axis.