

Aspheric Condenser Lenses

Optics

Lenses

Mirrors & Beamsplitters

Prisms & Polarizers

Filters

Pinholes

- **Ideal for broadband illumination applications**
- **Low f-number with minimal spherical aberrations**

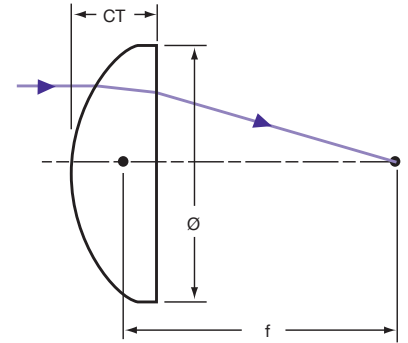


Aspheric lenses have at least one surface that is not a true sphere. The aspheric profile used is frequently a conic surface of revolution about the lens axis, matched in design to the shape

of the second surface. The shape of this lens produces a dramatic reduction of the spherical aberration, even for very low f-numbers.

The lenses listed here have a molded aspheric surface which is firepolished.

These lenses are mainly used in condenser or illumination applications. They are also used where a high light gathering power is needed such as for focusing onto detectors or fibers.



Specifications

Material: B270 Optical Crown Glass
Focal Length Tolerance: $\pm 7\%$
Diameter Tolerance: $+0/-0.4$ mm
Center Thickness Tolerance: ± 0.5 mm
Surface Quality: Fire polished, 80-50
Uncoated

Condenser Grade Aspheric Lenses

Catalog Number	Focal Length, f (mm)	Diameter, Ø (mm)	Second Surface Shape*	CT (mm)	F-Number	Price US
34-2006	8.5	12.0	CX	5.5	0.71	\$24.00
34-2014	10.5	12.0	P	3.5	0.88	\$22.00
34-2030	12.0	15.0	P	5.5	0.80	\$24.00
34-2055	12.0	18.0	CX	8.8	0.67	\$22.00
34-2063	15.5	18.0	P	7.0	0.86	\$22.00
34-2071	17.0	19.0	P	7.0	0.89	\$22.00
34-2113	20.0	25.0	P	7.5	0.80	\$26.00
34-2154	23.5	30.0	P	11.0	0.78	\$29.00
34-2162	26.5	30.0	P	11.0	0.88	\$29.00
34-2204	34.5	38.0	P	12.0	0.91	\$34.00
34-6338	25.0	40.0	P	16.5	0.65	\$40.00
34-2212	29.5	40.0	CX	15.5	0.74	\$45.00
34-2246	35.0	50.0	P	20.6	0.70	\$55.00
34-2261	39.0	50.0	P	22.5	0.78	\$55.00
34-2287	49.0	50.0	CX	14.3	0.98	\$70.00
34-2352	53.0	65.0	P	23.5	0.82	\$96.00
34-2378	50.0	75.0	P	29.1	0.67	\$140.00

* Note: P=Plano, CX=Convex

Opto-mechanics

Breadboards & Rails

Mounting Hardware

Mirror & Component Mounts

Manual Micro Positioners

Motorized Positioners