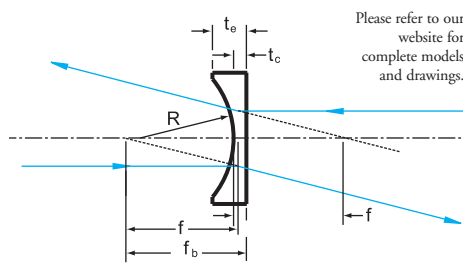


N-BK7: Plano-Concave Cylindrical Lenses

Like plano-concave spherical lenses, negative cylindrical lenses can be used to expand light but only in one dimension. These lenses are used in applications that require one dimensional shaping of a light source. A typical application is to use a single cylindrical lens to turn a collimated laser beam into a line generator. Pairs of cylindrical lenses may be used to anamorphically shape images.



Please refer to our website for complete models and drawings.



Plano-Concave Cylindrical Lens

Standard Broadband AR Coatings

To order the lens with a standard broadband AR Coating, add the coating code to the Item #, and then add the coating cost to the lens price. Example: LK1395L1 coated with 350 – 700 nm Broadband AR Coating is LK1395L1-A, and the cost is \$44.00 + \$9.20 = \$53.20.

COATING	WAVELENGTH	\$	£	€	RMB
-A	350 – 700 nm	\$ 9.20	£ 6.62	€ 8.00	¥ 73.32
-B	650 – 1050 nm	\$ 9.20	£ 6.62	€ 8.00	¥ 73.32
-C	1050 – 1620 nm	\$ 12.20	£ 8.78	€ 10.61	¥ 97.23

Specifications

- **Material:** N-BK7
- **Wavelength Range:** 350 nm – 2.0 μm
- **Design Wavelength:** 587.6 nm (n = 1.517)
- **Length Tolerance:** +0.00/-0.10 mm
- **Center Thickness Tolerance:** ±0.2 mm
- **Surface Flatness (Plano Side):** λ/2
- **Cylindrical Surface Power (Concave Side):** 3λ/2
- **Height Tolerance:** +0.00/-0.10 mm
- **Focal Length Tolerance:** ±1%
- **Surface Quality:** 60-40 Scratch-Dig
- **Centration**
 - ≤5 arcmin for f ≤ 50 mm
 - ≤3 arcmin for f > 50 mm
- **Clear Aperture:** >90% of Dimensions
- **Surface Irregularity (Plano Side):** λ/4
- **Surface Irregularity (Concave Side)**
 - λ for Height, λ/cm for Length



Plano-Concave Cylindrical Lenses: Material N-BK7, f = -3.9 to -1000.0 mm

ITEM #	f (mm)	f _b (mm)	H (mm)	L (mm)	PRICE UNCOATED (For Coated Lens Add Suffix)				R (mm)	t _c (mm)	t _e (mm)
					\$	£	€	RMB			
LK1395L1	-3.9	-5.2	4.0	6.0	\$ 44.00	£ 31.68	€ 38,28	¥ 350.64	-2.0	2.0	2.7
LK1597L2	-4.0	-5.3	4.0	8.0	\$ 50.30	£ 36.21	€ 43,76	¥ 400.85	-2.1	2.0	2.6
LK1523L1	-5.8	-7.1	4.0	6.0	\$ 44.00	£ 31.68	€ 38,28	¥ 350.64	-3.0	2.0	2.4
LK1087L1	-6.4	-7.7	6.0	8.0	\$ 49.56	£ 35.68	€ 43,12	¥ 394.99	-3.3	2.0	3.2
LK1087L2	-6.4	-7.7	6.0	12.0	\$ 58.60	£ 42.19	€ 50,98	¥ 467.00	-3.3	2.0	3.2
LK1363L2	-7.7	-9.0	7.0	14.0	\$ 58.70	£ 42.26	€ 51,06	¥ 467.80	-4.0	2.0	3.4
LK1836L1	-9.7	-11.0	10.0	12.0	\$ 60.80	£ 43.77	€ 52,89	¥ 484.54	-5.0	2.0	4.8
LK1836L2	-9.7	-11.0	10.0	20.0	\$ 71.04	£ 51.15	€ 61,80	¥ 566.19	-5.0	2.0	4.8
LK1684L1	-12.7	-14.0	10.0	12.0	\$ 49.25	£ 35.46	€ 42,84	¥ 392.48	-6.6	2.0	3.8
LK1816L1	-13.7	-15.0	13.0	15.0	\$ 57.65	£ 41.50	€ 50,15	¥ 459.43	-7.1	2.0	5.3
LK1753L1	-15.0	-16.3	10.0	12.0	\$ 50.30	£ 36.21	€ 43,76	¥ 400.85	-7.8	2.0	3.4
LK1037L1	-19.0	-20.3	19.0	21.0	\$ 73.29	£ 52.77	€ 63,76	¥ 584.12	-9.8	2.0	7.9
LK1085L1	-20.0	-21.3	15.0	17.0	\$ 62.90	£ 45.28	€ 54,72	¥ 501.27	-10.3	2.0	4.7
LK1085L2	-20.0	-21.3	15.0	30.0	\$ 76.19	£ 54.86	€ 66,29	¥ 607.23	-10.3	2.0	4.7
LK1006L1	-22.2	-23.5	12.5	15.0	\$ 56.60	£ 40.75	€ 49,24	¥ 451.06	-11.5	2.0	3.5
LK1426L1	-25.0	-26.2	10.0	12.0	\$ 50.30	£ 36.21	€ 43,76	¥ 400.85	-12.9	2.0	2.8
LK1900L1	-25.4	-26.7	16.0	18.0	\$ 64.89	£ 46.72	€ 56,45	¥ 517.17	-13.1	2.0	4.4
LK1982L1	-30.0	-31.3	20.0	22.0	\$ 75.39	£ 54.28	€ 65,59	¥ 600.86	-15.5	2.0	5.3
LK1982L2	-30.0	-31.3	20.0	40.0	\$ 93.99	£ 67.67	€ 81,77	¥ 749.10	-15.5	2.0	5.3
LK1283L1	-40.0	-41.3	10.0	12.0	\$ 50.30	£ 36.21	€ 43,76	¥ 400.85	-20.7	2.0	2.5
LK1662L1	-50.0	-51.3	20.0	22.0	\$ 75.39	£ 54.28	€ 65,59	¥ 600.86	-25.8	2.0	3.8
LK1336L1	-50.0	-51.3	30.0	32.0	\$ 102.69	£ 73.94	€ 89,34	¥ 818.44	-25.8	2.0	6.5
LK1792L1	-50.8	-52.3	50.8	53.0	\$ 157.08	£ 113.10	€ 136,66	¥ 1,251.93	-26.4	2.0	19.9
LK1431L1	-75.0	-76.3	50.8	53.0	\$ 157.08	£ 113.10	€ 136,66	¥ 1,251.93	-38.8	2.0	11.1
LK1526L1	-80.0	-82.0	20.0	22.0	\$ 75.39	£ 54.28	€ 65,59	¥ 600.86	-41.3	3.0	4.1
LK1743L1	-100.0	-102.0	30.0	32.0	\$ 102.69	£ 73.94	€ 89,34	¥ 818.44	-51.7	3.0	5.1
LK1419L1	-150.0	-152.0	30.0	32.0	\$ 102.69	£ 73.94	€ 89,34	¥ 818.44	-77.5	3.0	4.4
LK1069L1	-200.0	-202.0	30.0	32.0	\$ 102.69	£ 73.94	€ 89,34	¥ 818.44	-103.4	3.0	4.0
LK1030L1	-250.0	-252.0	30.0	32.0	\$ 102.69	£ 73.94	€ 89,34	¥ 818.44	-129.2	3.0	3.8
LK1487L1	-400.0	-402.0	30.0	32.0	\$ 102.69	£ 73.94	€ 89,34	¥ 818.44	-206.7	3.0	3.5
LK1002L1	-1000.0	-1002.0	30.0	32.0	\$ 102.69	£ 73.94	€ 89,34	¥ 818.44	-516.8	3.0	3.2

OEMs

Thorlabs stocks a large number of uncoated lenses. If your application requires a custom coating, please contact us directly for price and availability. Custom housings are also available.