

## a|High-NA

Precision-polished aspheres especially suitable for demanding laser applications thanks to a superior surface quality. Also available as mounted lenses.

### Key Benefits:

- = Outstanding surface form deviation of  $RMS_r \leq 0.5 \mu\text{m}$
- = Decrease of chromatic aberrations by use of low dispersion material
- = Off-the-shelf delivery
- = RoHS compliance
- = Available with 3 standard coatings<sup>1</sup>:
  - A:  $R_{MAX} < 1.0\%$ ,  $R_{AVG} \leq 0.4\%$ , 400-600 nm, AOI=0°
  - B:  $R_{MAX} < 1.0\%$ ,  $R_{AVG} \leq 0.4\%$ , 600-1050 nm, AOI=0°
  - C:  $R_{MAX} < 1.0\%$ ,  $R_{AVG} \leq 0.4\%$ , 1000-1600 nm, AOI=0°



Unmounted Asphere

### Lens description

Surface Form Deviation (RMS) <sup>2</sup>	[ $\mu\text{m}$ ]	$\leq 0.5$
EFL Tolerance	[%]	$\leq 0.1$
Surface Imperfections	[Scratch/Dig]	60 - 40
Diameter Tolerance	[mm]	+0/-0.05
Center Thickness Tolerance <sup>3</sup>	[mm]	+0.05
Clear Aperture	[%]	$\geq 90$



Mounted Asphere

Product Code	$\emptyset$ [mm]	EFL [mm]	NA	f/d	WD [mm]	$\lambda_{\text{Design}}$ [nm]	Material
AHL10-08 <sup>4</sup>	10	8	0.55	0.80	6.0	780	S-LAH64
AHL12-10	12.5	10	0.55	0.80	7.6	780	S-LAH64
AHL15-12	15	12	0.55	0.80	9.0	780	S-LAH64
AHL18-15	18	15	0.53	0.83	11.5	780	S-LAH64
AHL20-18	20	18	0.49	0.90	14.0	780	S-LAH64
AHL25-20	25	20	0.54	0.80	15.7	780	S-LAH64
AHL30-26	30	26	0.52	0.87	20.6	780	S-LAH64
AHL45-32	45	32	0.61	0.71	24.2	780	S-LAH64
AHL50-40	50	40	0.55	0.80	31.3	780	S-LAH64

<sup>1</sup> Custom coatings available upon request. | <sup>2</sup>RMS, corresponds to ISO 10110-5 (surface form tolerances). | <sup>3</sup> For lenses AHL45-32, AHL50-40 please consider a center thickness tolerance of  $\pm 0.1$ . | <sup>4</sup> Calculated for 250  $\mu\text{m}$  cover glass thickness. | General: Technical parameters and prices are subject to change without prior notice.

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