

Glass Aspheres for Laser Tools

- Single lens provides same performance as doublets and triplets
- Reduces system cost through simple, compact design
- Molded lenses for greater performance repeatability
- Designed for high volume production

In today's manufacturing environment, laser tools are a common method for generating guidelines and measuring distances or surface profiles. These tools include laser levels, laser pointers, line projectors, laser scanners, and laser trackers. LightPath's aspheric lenses are designed for use in today's high performance laser tools and measurement systems.



Aspheric lenses provide a single lens solution to laser projection. These aspheric lenses provide a cost savings over spherical doublets and triplets without sacrificing performance. Time consuming and expensive mounting and alignment of doublets and triplets can be replaced with a simple single lens mount.

Aspheric lenses also have higher transmission than multi-lens systems due to less optical material and allow more compact packaging to be produced.

Contact LightPath to take advantage of the power of Aspheric Optics for a simpler optical system.

Laser Tool Lenses						
Lens Code	Shape	Numerical Aperture	Focal Length (mm)	Outer Diameter (mm)	Clear Aperture (mm)	Working Distance (mm)
354057	Plano-Convex (PCX)	0.20	13.0	6.325	5.2	11.6
354058	Plano-Convex (PCX)	0.22	12.0	6.325	5.2	10.6
354059	Plano-Convex (PCX)	0.19	14.0	6.325	5.2	12.6
354060	Plano-Convex (PCX)	0.30	9.6	6.325	5.2	8.1
354061	Plano-Convex (PCX)	0.24	11.0	6.325	5.2	9.6
354062	Plano-Convex (PCX)	0.24	11.0	6.00	5.2	9.7
354171	Plano-Convex (PCX)	0.30	6.2	4.70	3.7	4.1
354996	Plano-Convex (PCX)	0.30	4.5	3.00	2.7	3.5

LightPath's D-ZK3 Glass is used for all Laser Tool Lenses.

Please see page 23-37 for detailed descriptions of the above lenses.

Standard Coatings
MLBB-A Coating: 400 nm - 600 nm
MLBB-B Coating: 600 nm - 1050 nm
MLBB-C Coating: 1050 nm - 1600 nm
MgF ₂

