

Precision Spherical Lenses Datasheet

Felix Glass specializes in custom precision optical components for machine vision, laser systems, medical optics, spectroscopy and industrial imaging. OEM & ODM manufacturing services are available worldwide. Document No. : FG-SPL-001
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Core Spec Table

Item	Specification
Raw Materials	H-K9L/BK7, Fused Silica, Sapphire, ZnSe, Germanium
Spherical Lens Types	Plano Convex, Plano Concave, Biconvex, Biconcave, Meniscus
Diameter Range	2mm - 300mm fully customizable
Surface Flatness	Up to $\lambda/20$
Surface Quality	Up to Class 00
Centration Tolerance	$\leq 0.005\text{mm}$
Focal Length Tolerance	$\pm 0.5\%$
Optional Coatings	Broadband AR, Single Wavelength Laser AR, HR Reflective, DLC IR Hard Coating
Custom Options	Edge chamfer, blackened stray-light suppression edge, custom radius & thickness

Product Brief

- 1. Plano Convex Lens: Focus parallel light, ideal for collimation & imaging
- 2. Plano Concave Lens: Diverge light beam for beam expansion systems
- 3. Biconvex Lens: Short focal length for high-power focusing
- 4. Biconcave Lens: Strong beam divergence for optical attenuation
- 5. Meniscus Lens: Correct spherical aberration for multi-element lens assemblies

The information contained in this document is provided for reference only. Final specifications are subject to mutually approved engineering drawings, production capability review, and customer project requirements.