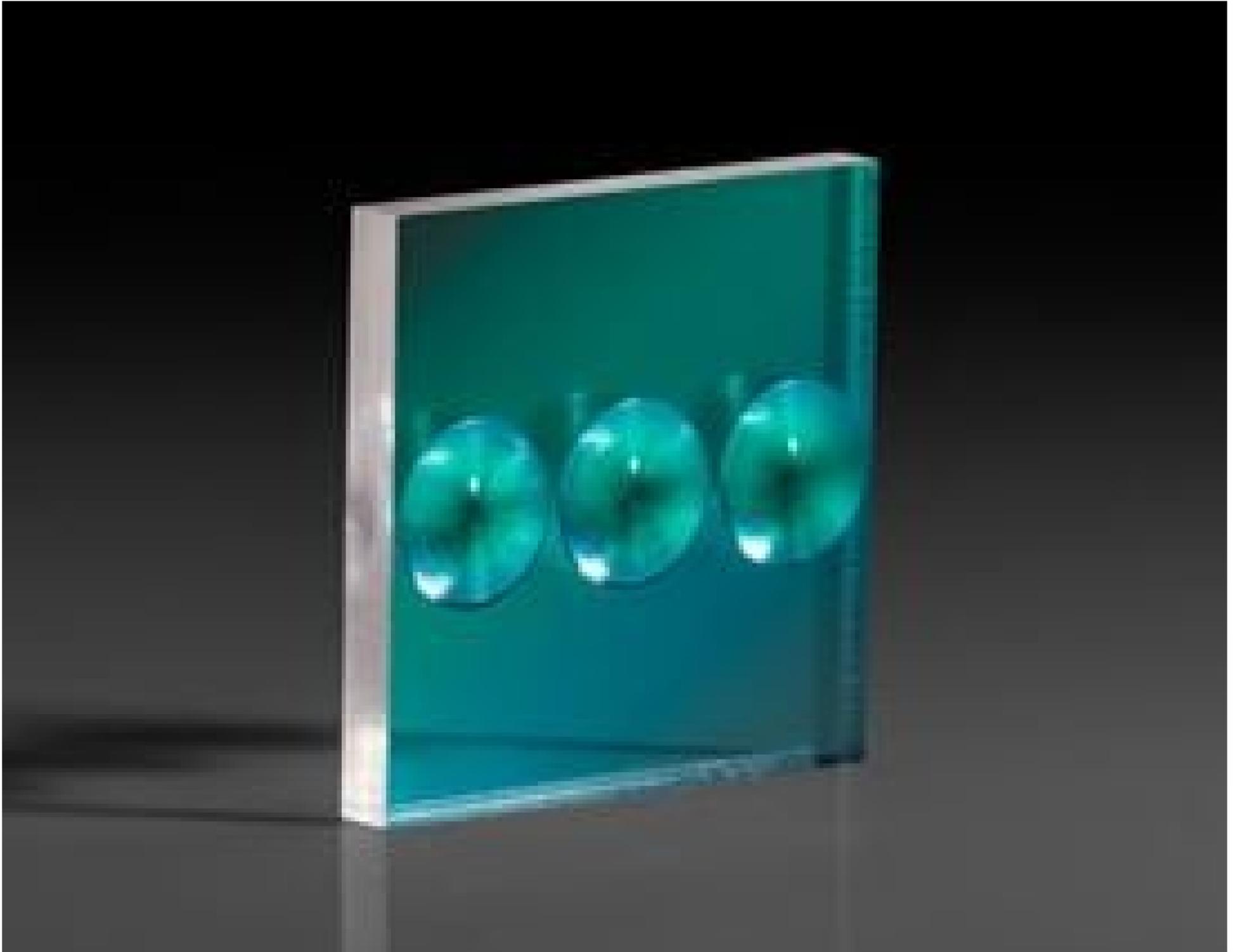


0.6" x 0.6", 0.2" FL, Aspheric Fresnel Lens



0.6" x 0.6", 0.2" FL, Aspheric Fresnel Lens, #43-021

Stock **#43-021** **20+ In Stock**

⊖ 1 ⊕ £31²⁰

ADD TO CART

Volume Pricing	
Qty 1-10	£31.20 each
Qty 11-49	£26.40 each
Need More?	Request Quote

ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Fresnel Lens **Type:**

Designed with infinite conjugate on flat side **Typical Applications:**

Physical & Mechanical Properties

0.06 **Center Thickness CT (inches):**

± 0.05	Dimensional Tolerance (inches):
0.6 x 0.6	Dimensions (inches):
15.24 x 15.24	Dimensions (mm):
	Effective Diameter (inches): Consists of three 0.2" fresnel patterns
± 40	Thickness Tolerance (%):

Optical Properties

5.08	Effective Focal Length EFL (mm):
Acrylic	Substrate: <input type="checkbox"/>
Uncoated	Coating:
400 - 1100	Wavelength Range (nm):
0.20	Effective Focal Length EFL (inches):
400.00	Groove Density (grooves/inch):
1.49	Index of Refraction (n_d):
85 (Typical)	Transmission (%):

Environmental & Durability Factors

80 (Maximum)	Operating Temperature ($^{\circ}\text{C}$):
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Regulatory Compliance

Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 242:

Product Details

- Thin, Flat Lenses for Focusing Applications
- Large Sizes for Maximum Light Collection
- Aspherically-Grooved Contours for Enhanced Performance

Aspherically Contoured Fresnel Lenses are thin, flat lenses for focusing applications. A Fresnel lens replaces the curved surface of a conventional lens with a series of concentric grooves, molded into the surface of a thin, lightweight plastic sheet. The grooves act as individual refracting surfaces, like tiny prisms when viewed in cross section, bending parallel rays in a very close approximation to a common focal length. Aspherically Contoured Fresnel Lenses are thin, so very little light is lost by absorption. Fresnel lenses are a compromise between efficiency and image quality. High groove density allows higher quality images, while low groove density yields better efficiency (as needed in light gathering applications). In infinite conjugate systems, the grooved side of the lens should face the longer conjugate.

Fresnel lenses are most often used in light gathering applications, such as condenser systems or emitter/detector setups. Fresnel lenses can also be used as magnifiers or projection lenses; however, due to the high level of distortion, this is not recommended.

Technical Information

