TECHSPEC® 12.7mm x -50mm FL, NIR I Imaging Grade PCV Cylinder Lens

TECHSPEC® Beam Shaping PCV Cylinder Lenses

Stock **#34-680** CONTACT US

- 1 + **£82**.00

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Volume Pricing	
Qty 1-5	**£82.00** each
Qty 6-25	**£74.00** each
Qty 26-49	**£71.00** each
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Prices shown are exclusive of VAT/local taxes

Product Downloads

SPECIFICATIONS

General

Type:	Cylinder Lens, Plano-Concave

Physical & Mechanical Properties

Diameter (mm): 12.70 +0.0/-0.025	**Bevel:** Protective as needed
Center Thickness CT (mm): 2.00	**Center Thickness Tolerance (mm):** ±0.1
Clear Aperture CA (mm): 11.43	**Edge Thickness ET (mm):** 2.74

Optical Properties

Effective Focal Length EFL (mm): -50.00	**Substrate:** N-BK7
f/#: 4	**Numerical Aperture NA:** 0.13
Coating: NIR I (600-1050nm)	**Wavelength Range (nm):** 600 - 1050
Back Focal Length BFL (mm): -51.32	**Coating Specification:** R_{avg} ≤0.5% @ 600 - 1050nm
Radius R_1 (mm): 25.84	**Surface Quality:** 40-20
Power (P-V) @ 632.8nm: 1.5λ	**Irregularity (P-V) @ 632.8nm:** λ/4
Plano Axis Wedge (arcmin): <5	**Power Axis Wedge (arcmin):** <5

Regulatory Compliance

RoHS 2015: Compliant	**Certificate of Conformance:** View
Reach 235: Compliant	

PRODUCT DETAILS

- Beam Shaping Grade Specifications
- Used with **TECHSPEC® Imaging Grade PCX Cylinder Lenses** for Circularizing Beams
- Negative Focal Length

TECHSPEC® Imaging Grade PCV Cylinder Lenses are typically used to diverge collimated light in a single axis. These lenses are designed for system integration due to the tightly controlled specifications and generous volume discounts. TECHSPEC Imaging Grade PCV Cylinder Lenses feature tightly controlled wedge and tilt specifications and are ideal for circularizing elliptical beams in combination with our **TECHSPEC Imaging Grade PCX Cylinder Lenses**.

CUSTOM

Edmund Optics offers comprehensive custom manufacturing services for optical and imaging components tailored to your specific application requirements. Whether in the prototyping phase or preparing for full-scale production, we provide flexible solutions to meet your needs. Our experienced engineers are here to assist—from concept to completion.

Our capabilities include:

- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

Learn more about our **custom manufacturing capabilities** or submit an inquiry **here.**