

TECHSPEC[®] 12.5mm Dia x -100mm FL NIR I Coated, Illumination Grade PCV Cylinder Lens



TECHSPEC® Illumination Grade PCV Cylinder Lenses

Stock **#69-816** 20+ In Stock

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1

+

C\$141⁴⁰

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Volume Pricing	
Qty 1-5	C\$141.40 each
Qty 6-25	C\$126.70 each
Qty 26-49	C\$119.70 each
Need More?	Request Quote

Product Downloads

General	
Cylinder Lens, Plano-Concave	Type:
Physical & Mechanical Properties	
12.50 +0.0/-0.2	Diameter (mm):
2.00	Center Thickness CT (mm):

±0.1	Center Thickness Tolerance (mm):
2.38	Edge Thickness ET (mm):
Optical Properties	
-100.00	Effective Focal Length EFL (mm):
N-BK7	Substrate: ☐
8.00	f/#:
0.06	Numerical Aperture NA:
NIR I (600-1050nm)	Coating:
600 - 1050	Wavelength Range (nm):
-101.32	Back Focal Length BFL (mm):
R _{avg} ≤0.5% @ 600 - 1050nm	Coating Specification:
±3	Focal Length Tolerance (%):
-51.68	Radius R ₁ (mm):
60-40	Surface Quality:
7 J/cm ² @ 1064nm, 10ns	Damage Threshold, By Design: ☐

Regulatory Compliance	
Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 235:

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](#).

Product Details

- Cylinder Lenses Ideal for 1 Dimensional Laser Beam Convergence
- Circular and Rectangular Form Factors
- Multiple Coating Options Available

TECHSPEC® Illumination Grade PCV Cylinder Lenses are commonly used to turn a collimated laser source into a line generator. These PCV Cylinder Lenses and [TECHSPEC Illumination Grade PCX Cylinder Lenses](#) can be used together for beam expander applications.

The thin lens approximation for the length of a line generated by a negative cylinder lens is: $L = 2 * (r_0/f) * (z + f)$ where L is the line length, r_0 is half the beam diameter, z is the projection distance, and -f is the focal length of the lens.

Technical Information



