

**TECHSPEC® 12.5mm Dia x -50mm FL VIS 0° Coated, Illumination Grade PCV Cylinder Lens**



TECHSPEC® Illumination Grade PCV Cylinder Lenses

Stock #69-795 **2 In Stock**

⊖ 1 ⊕ A\$146<sup>00</sup>

**ADD TO CART**

Volume Pricing	
Qty 1-5	A\$146.00 each
Qty 6-25	A\$131.00 each
Qty 26-49	A\$124.00 each
Need More?	<a href="#">Request Quote</a>

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):**

Center Thickness Tolerance (mm):  
±0.1

Edge Thickness ET (mm):  
2.77

## Optical Properties

Effective Focal Length EFL (mm):  
-50.00

Substrate:   
**N-BK7**

f#:  
4.00

Numerical Aperture NA:  
0.13

Coating:  
VIS 0° (425-675nm)

Wavelength Range (nm):  
425 - 675

Back Focal Length BFL (mm):  
-51.32

Coating Specification:  
R<sub>avg</sub> ≤ 0.4% @ 425 - 675nm

Focal Length Tolerance (%):  
±3

Radius R<sub>1</sub> (mm):  
-25.84

Surface Quality:  
60-40

Damage Threshold, Reference:   
5 J/cm<sup>2</sup> @ 532nm, 10ns

## Regulatory Compliance

RoHS 2015:  
**Compliant**

Certificate of Conformance:  
[View](#)

Reach 235:  
**Compliant**

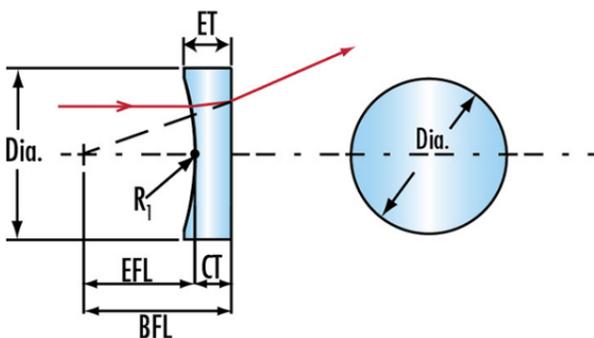
## Product Details

- 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



## Coating Curves

## 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](#).

---