

**TECHSPEC® 25mm Dia x -100mm FL VIS-NIR Coated, Illumination Grade PCV Cylinder Lens**



TECHSPEC® Illumination Grade PCV Cylinder Lenses

Stock #69-845 [CONTACT US](#)

⊖ 1 ⊕ £83.<sup>00</sup>

**ADD TO CART**

Volume Pricing	
Qty 1-5	£83.00 each
Qty 6-25	£75.00 each
Qty 26-49	£72.00 each
Need More?	<a href="#">Request Quote</a>

ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

**General**

Cylinder Lens, Plano-Concave **Type:**

**Physical & Mechanical Properties**

25.00 +0.0/-0.2 **Diameter (mm):**

**Center Thickness CT (mm):**

3.50

Center Thickness Tolerance (mm):

±0.1

Edge Thickness ET (mm):

5.03

### Optical Properties

Effective Focal Length EFL (mm):

-100.00

Substrate:

N-BK7

f#:

4.00

Numerical Aperture NA:

0.13

Coating:

VIS-NIR (400-1000nm)

Wavelength Range (nm):

400 - 1000

Back Focal Length BFL (mm):

-102.31

Coating Specification:

R<sub>abs</sub> ≤ 0.25% @ 880nm  
R<sub>avg</sub> ≤ 1.25% @ 400 - 870nm  
R<sub>avg</sub> ≤ 1.25% @ 890 - 1000nm

Focal Length Tolerance (%):

±3

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

-51.68

Surface Quality:

60-40

Damage Threshold, By Design:

5 J/cm<sup>2</sup> @ 532nm, 10ns

### Regulatory Compliance

RoHS 2015:

Compliant

Certificate of Conformance:

[View](#)

Reach 235:

Compliant

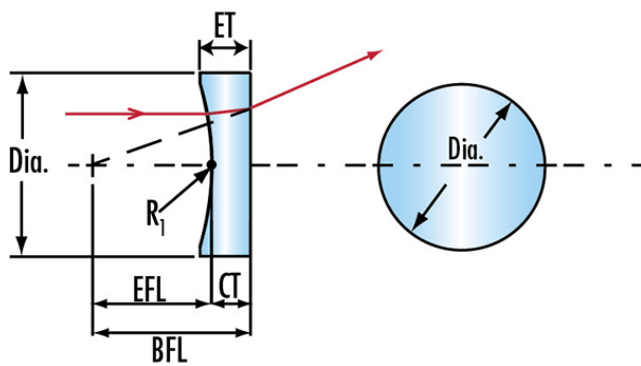
## Product Details

- 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<sub>0</sub> 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](#).

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