

TECHSPEC<sup>®</sup> 6.25mm Dia x -6.25mm FL MgF<sub>2</sub> Coated, Illumination Grade PCV Cylinder Lens



TECHSPEC<sup>®</sup> Illumination Grade PCV Cylinder Lenses

Stock **#48-371** 20+ In Stock

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1

+

£65<sup>00</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | £65.00 each                   |
| Qty 6-25       | £59.00 each                   |
| Qty 26-49      | £57.00 each                   |
| Need More?     | <a href="#">Request Quote</a> |

**i** Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Cylinder Lens, Plano-Concave

Type:

Physical & Mechanical Properties

6.25 +0.0/-0.2

Diameter (mm):

Center Thickness CT (mm):

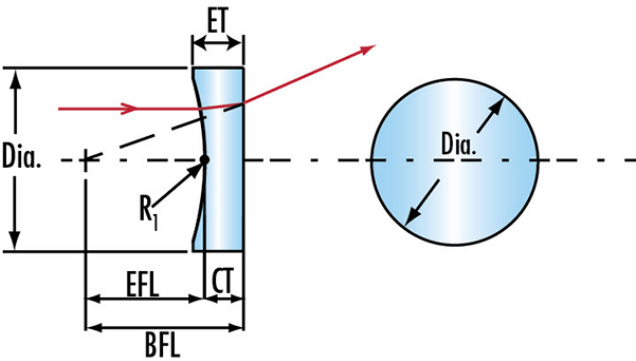
|                                                   |  |
|---------------------------------------------------|--|
| 1.00                                              |  |
| Center Thickness Tolerance (mm):                  |  |
| ±0.1                                              |  |
| Edge Thickness ET (mm):                           |  |
| 3.38                                              |  |
| Optical Properties                                |  |
| Effective Focal Length EFL (mm):                  |  |
| -6.25                                             |  |
| Substrate: <input type="text"/>                   |  |
| N-BK7                                             |  |
| f/#:                                              |  |
| 1.00                                              |  |
| Numerical Aperture NA:                            |  |
| 0.50                                              |  |
| Coating:                                          |  |
| MgF <sub>2</sub> (400-700nm)                      |  |
| Wavelength Range (nm):                            |  |
| 400 - 700                                         |  |
| Back Focal Length BFL (mm):                       |  |
| -6.91                                             |  |
| Coating Specification:                            |  |
| R <sub>avg</sub> ≤1.75% @ 400 - 700nm             |  |
| Focal Length Tolerance (%):                       |  |
| ±3                                                |  |
| Radius R <sub>1</sub> (mm):                       |  |
| -3.24                                             |  |
| Surface Quality:                                  |  |
| 60-40                                             |  |
| Damage Threshold, By Design: <input type="text"/> |  |
| 10 J/cm <sup>2</sup> @ 532nm, 10ns                |  |

|                             |  |
|-----------------------------|--|
| Regulatory Compliance       |  |
| RoHS 2015:                  |  |
| Compliant                   |  |
| Reach 209:                  |  |
| Compliant                   |  |
| Certificate of Conformance: |  |
| View                        |  |

## 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](#).

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