

TECHSPEC® 6.25mm Dia x -6.25mm FL Uncoated, Illumination Grade PCV Cylinder Lens



TECHSPEC® Illumination Grade PCV Cylinder Lenses

Stock #46-191 20+ In Stock

-

1

+

A\$106<sup>00</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | A\$106.00 each                |
| Qty 6-25       | A\$95.00 each                 |
| Qty 26-49      | A\$90.00 each                 |
| Need More?     | <a href="#">Request Quote</a> |

Product Downloads

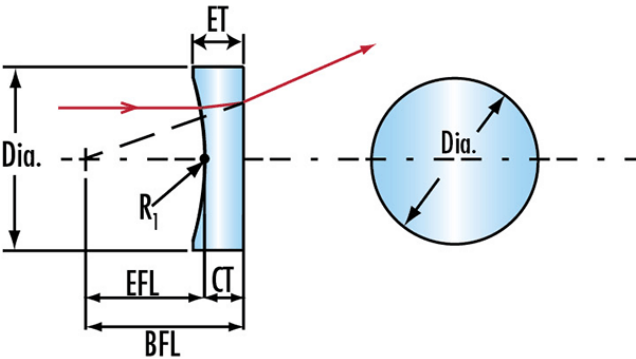
| General                          |                           |
|----------------------------------|---------------------------|
| Cylinder Lens, Plano-Concave     | Type:                     |
| Physical & Mechanical Properties |                           |
| 6.25 +0.0/-0.2                   | Diameter (mm):            |
| 1.00                             | Center Thickness CT (mm): |

|                       |                                     |
|-----------------------|-------------------------------------|
| ±0.1                  | Center Thickness Tolerance (mm):    |
| 3.38                  | Edge Thickness ET (mm):             |
| Optical Properties    |                                     |
| -6.25                 | Effective Focal Length EFL (mm):    |
| N-BK7                 | Substrate: <input type="checkbox"/> |
| 1.00                  | f/#:                                |
| 0.50                  | Numerical Aperture NA:              |
| Uncoated              | Coating:                            |
| 350 - 2200            | Wavelength Range (nm):              |
| -6.91                 | Back Focal Length BFL (mm):         |
| ±3                    | Focal Length Tolerance (%):         |
| -3.24                 | Radius R <sub>1</sub> (mm):         |
| 60-40                 | Surface Quality:                    |
| Regulatory Compliance |                                     |
| Compliant             | RoHS 2015:                          |
| Compliant             | Reach 224:                          |
| View                  | Certificate of Conformance:         |

## 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



## 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](#).