

TECHSPEC<sup>®</sup>

12.5mm H x 25mm L x -75mm FL VIS-NIR Coated, Illumination Grade PCV Cylinder Lens



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

Stock **#69-840** **2 In Stock**

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1

+

€87<sup>04</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | €87,04 each                   |
| Qty 6-25       | €78,28 each                   |
| Qty 26-49      | €74,16 each                   |
| Need More?     | <a href="#">Request Quote</a> |

Prices shown are exclusive of VAT/local taxes

Product Downloads

SPECIFICATIONS

General

Cylinder Lens, Plano-Concave

Type:

| Physical & Mechanical Properties                                                                                   |                                                       |
|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|
| 2.50                                                                                                               | Center Thickness CT (mm):                             |
| ±0.1                                                                                                               | Center Thickness Tolerance (mm):                      |
| +0.0/-0.2                                                                                                          | Dimensional Tolerance (mm):                           |
| 12.5 x25.0                                                                                                         | Dimensions (mm):                                      |
| 2.96                                                                                                               | Edge Thickness ET (mm):                               |
| Optical Properties                                                                                                 |                                                       |
| -75.00                                                                                                             | Effective Focal Length EFL (mm):                      |
| N-BK7                                                                                                              | Substrate: <input type="checkbox"/>                   |
| VS-NIR (400-1000nm)                                                                                                | Coating:                                              |
| 400 - 1000                                                                                                         | Wavelength Range (nm):                                |
| -76.65                                                                                                             | Back Focal Length BFL (mm):                           |
| R <sub>abs</sub> ≤0.25% @ 880nm<br>R <sub>avg</sub> ≤1.25% @ 400 - 870nm<br>R <sub>avg</sub> ≤1.25% @ 890 - 1000nm | Coating Specification:                                |
| ±3                                                                                                                 | Focal Length Tolerance (%):                           |
| -38.76                                                                                                             | Radius R <sub>1</sub> (mm):                           |
| 60-40                                                                                                              | Surface Quality:                                      |
| 5 J/cm <sup>2</sup> @ 532nm, 10ns                                                                                  | Damage Threshold, By Design: <input type="checkbox"/> |
| Regulatory Compliance                                                                                              |                                                       |
| Compliant                                                                                                          | RoHS 2015:                                            |
| View                                                                                                               | Certificate of Conformance:                           |
| Compliant                                                                                                          | Reach 235:                                            |

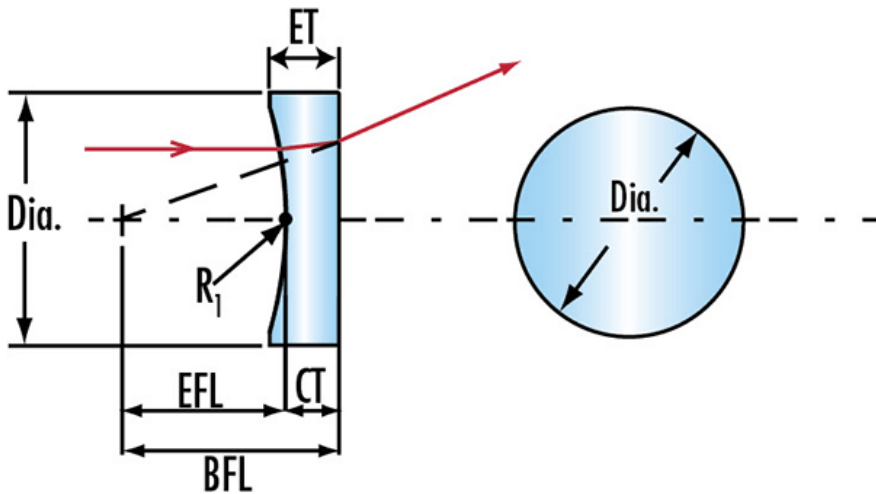
## PRODUCT DETAILS

- 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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