TECHSPEC®

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

TECHSPEC® Illumination Grade PCV Cylinder Lenses

Stock #69-818 1 In Stock

- 1 +

C$141.40

ADD TO CART

Volume Pricing	
Qty 1-5	C$141.40 each
Qty 6-25	C$126.70 each
Qty 26-49	C$119.70 each
Need More?	Request Quote

Product Downloads

STEP:stp | Curve:pdf | PDF Drawing:pdf | IGES:igs | Curve (xslx) | Zemax:zar | Zemax:zmx | eDrawing:eprt | Code V:seq | EO Spec Sheet

Download All

General

Type:	Cylinder Lens, Plano-Concave

Physical & Mechanical Properties

Center Thickness CT (mm):	2.50	**Center Thickness Tolerance (mm):**	±0.1
Dimensional Tolerance (mm):	+0.0/-0.2	**Dimensions (mm):**	12.5 x 25.0
Edge Thickness ET (mm):	3.95		

Optical Properties

Effective Focal Length EFL (mm):	-25.00	**Substrate:** ⓘ	N-BK7
Coating:	NIR I (600-1050nm)	**Wavelength Range (nm):**	600 - 1050
Back Focal Length BFL (mm):	-26.65	**Coating Specification:**	R_{avg} ≤0.5% @ 600 - 1050nm
Focal Length Tolerance (%):	±3	**Radius R_1 (mm):**	-12.92
Surface Quality:	60-40	**Damage Threshold, By Design:** ⓘ	7 J/cm^2 @ 1064nm, 10ns

Regulatory Compliance

RoHS 2015:	**Compliant**	**Certificate of Conformance:**	**View**
Reach 235:	**Compliant**		

Need different specs or modifications?

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.**

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

Related Products

Laser Grade Broadband Cylinder Lenses

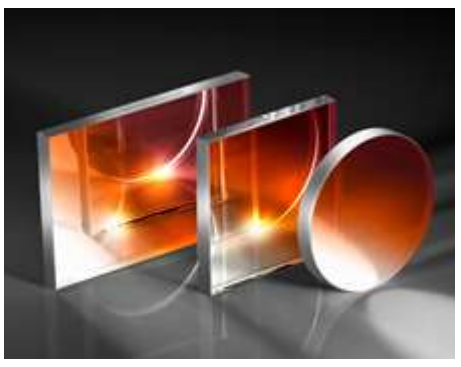
Laser Grade Laser Line Cylinder Lenses

Imaging Grade PCV Cylinder Lenses

Illumination Grade PCX Cylinder Lenses

Frequently Purchased Together

#03-676 – 7.0 – 40.0 Optic Height, English Bar-Type Optic Holder
C$148.40



#45-855 – 50 x 50mm 50R/50T, NIR Plate Beamsplitter
C$387.80

#47-156 – 50mm Dia. 1064nm 45°, Nd:YAG Laser Line Mirror
C$438.20

#47-624 – 15° Beam Dev. VIS-NIR Coated, N-BK7 Wedge Prism
C$96.60

Qty Qty Qty Qty

Resources

Media Type

- [ ] Application Note
- [ ] Trending in Optics
- [ ] Published Article
- [ ] FAQ
- [ ] Glossary
- [ ] Video

APPLICATION NOTE
Anti-Reflection (AR) Coatings

APPLICATION NOTE
Laser Beam Shaping Overview

TRENDING IN OPTICS
Non-Circular Optics for System Miniaturization

APPLICATION NOTE
What are Cylinder Lenses?

APPLICATION NOTE
Considerations When Using Cylinder Lenses

PUBLISHED ARTICLE
Cylinder Lenses for Beam Shaping

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