

[See all 105 Products in Family](#)

[All Products](#) / [Optics](#) / [Optical Lenses](#) / [Cylinder Lenses](#) / [Illumination Grade Cylinder Lenses](#) / [Illumination Grade PCV Cylinder Lenses](#)

TECHSPEC®

25mm Dia x -100mm FL Uncoated, Illumination Grade PCV Cylinder Lens



TECHSPEC® Illumination Grade PCV Cylinder Lenses

Stock #47-753 **14 In Stock**

1

MRP ₹8,193

Price inclusive of all taxes

ADD TO CART

Volume Pricing	
Qty 1-5	₹8,193 each
Qty 6-25	₹7,426 each
Qty 26-49	₹6,995 each
Need More?	Request Quote

Product Downloads

- STEP:step
- PDF Drawing:pdf
- IGES:igs
- Zemax:zar
- Zemax:zmx
- eDrawing:eprt
- Code V:seq
- EO Spec Sheet
- [Download All](#)

General

Type: Cylinder Lens, Plano-Concave

Physical & Mechanical Properties

Diameter (mm):	25.00 +0.0/-0.2	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:	Uncoated	Wavelength Range (nm):	350 - 2200
Back Focal Length BFL (mm):	-102.31	Focal Length Tolerance (%):	±3
Radius R₁ (mm):	-51.68	Surface Quality:	60-40

Regulatory Compliance

RoHS 2015: **Compliant**

Reach 224: **Compliant**

Certificate of Conformance: [View](#)

Country of Origin: China

Imported By: Edmund Optics
India Private Limited
267, Greystone Building,
Second Floor,
6th Cross Rd,
Binnamangala,
Stage 1,
Indiranagar,
Bengaluru,
Karnataka,
India 560038
Phone: +91-80-6845 0000

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

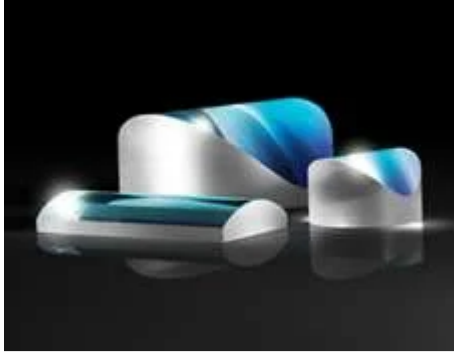


Imaging Grade PCV
Cylinder Lenses



Illumination Grade PCX
Cylinder Lenses

Frequently Purchased Together



#46-018 - 25mm Dia x 100mm FL
Uncoated, Illumination Grade PCX
Cylinder Lens
₹8,193

Qty



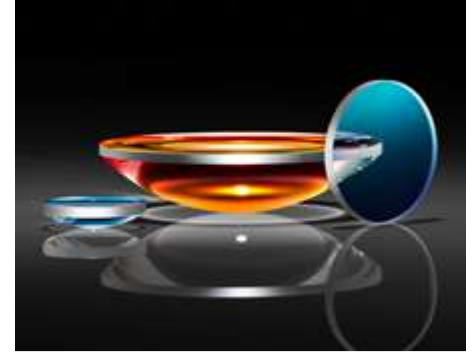
#46-197 - 25mm Dia x -50mm FL
Uncoated, Illumination Grade PCV
Cylinder Lens
₹8,193

Qty



#47-752 - 25mm Dia x -75mm FL
Uncoated, Illumination Grade PCV
Cylinder Lens
₹8,193

Qty



#48-278 - 25mm Dia. x 150mm FL
Uncoated, UV Plano-Convex Lens
₹13,823

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

[View More](#)