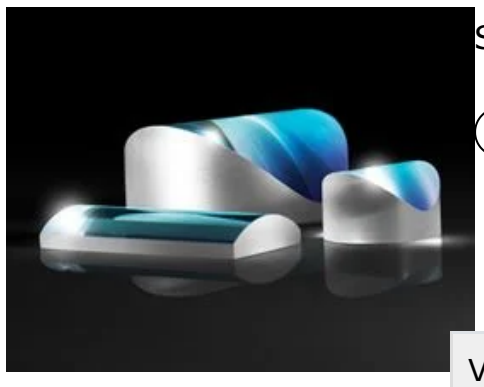
TECHSPEC®

12.7mm H x 12.7mm L x 25mm FL VIS-NIR, Illumination Grade PCX Cylinder Lens



Stock #36-218 20+ 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: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-Convex

Physical & Mechanical Properties

Center Thickness CT (mm):	3.00	**Center Thickness Tolerance (mm):**	±0.1
Dimensional Tolerance (mm):	+0.0/-0.2	**Dimensions (mm):**	12.7 x 12.7
Edge Thickness ET (mm):	1.33		

Optical Properties

Effective Focal Length EFL (mm):	25.00	**Substrate:** ⓘ	N-BK7
f/#:	1.96850393700787	**Numerical Aperture NA:**	0.25
Coating:	VIS-NIR (400-1000nm)	**Wavelength Range (nm):**	400 - 1000
Back Focal Length BFL (mm):	23.02	**Coating Specification:**	R_{abs} ≤0.25% @ 880nm R_{avg} ≤1.25% @ 400 - 870nm R_{avg} ≤1.25% @ 890 - 1000nm
Focal Length Tolerance (%):	±3	**Radius R_1 (mm):**	12.92

Surface Quality:	60-40

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

- N-BK7 Substrate for Broadband Performance
- Cost-Effective for OEM Integration
- Multiple Coating Options Available

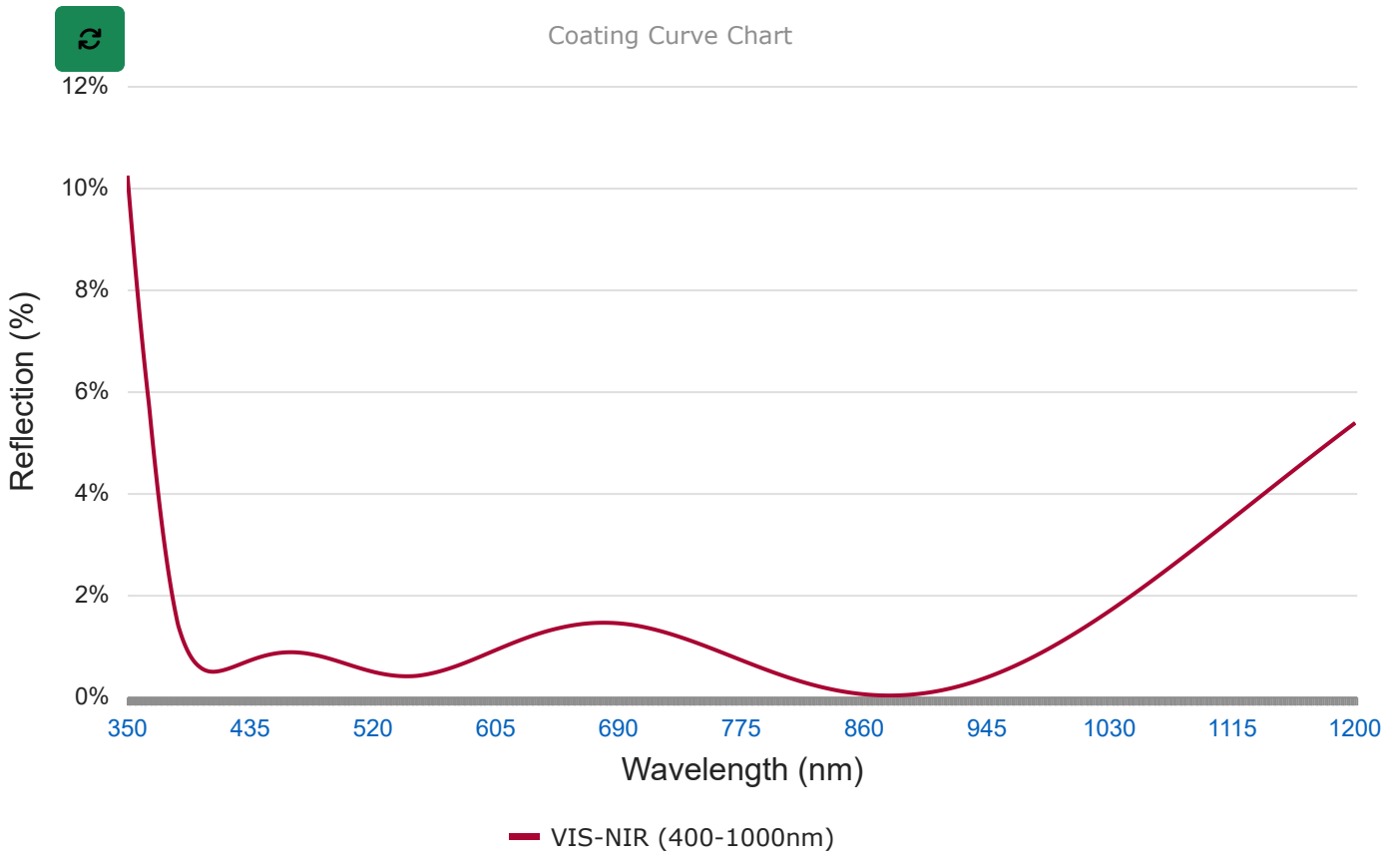
TECHSPEC® Illumination Grade PCX Cylinder Lenses are similar to Plano-Convex (PCX) lenses in profile, but include a portion of a cylinder instead of a sphere. These lenses focus light in one dimension and can transform a point of light into a line. TECHSPEC® Illumination Grade PCX Cylinder Lenses are available in circular and rectangular versions, along with multiple coating options. Cylinder lenses are ideal for line projection in machine vision applications or guidance systems.

Note: For negative focal length cylinder lenses, see our **TECHSPEC® Illumination Grade PCV Cylinder Lenses**.

Technical Information

Coating Curves

VIS-NIR (400-1000nm)



Please note that coating performance outside each product's specified design range is theoretical and may vary.

Related Products

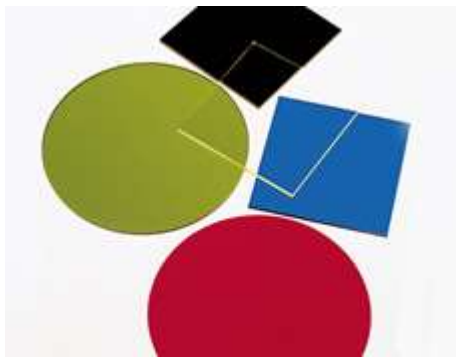
Illumination Grade PCV Cylinder Lenses

Imaging Grade PCX Cylinder Lenses

Laser Grade Laser Line Cylinder Lenses

Laser Grade Broadband Cylinder Lenses

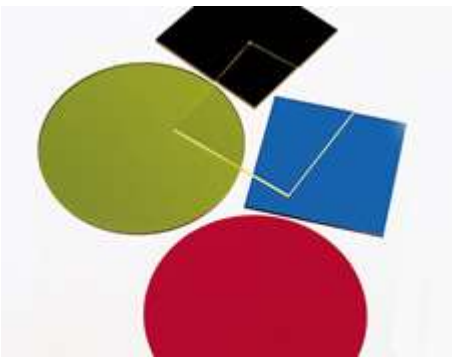
Frequently Purchased Together



#43-941 - 4" x 5" Blue Optical Cast Plastic Filter
C$66.50
Qty

#46-542 - Mounted M25.5 x 0.5 Threaded - Red Filter
C$80.50
Qty

#46-544 - Mounted M25.5 x 0.5 Threaded - Blue Filter
C$80.50
Qty



#46-622 - 5" x 7" Red Optical Cast Plastic Filter
C$130.20
Qty

Resources

Media Type

APPLICATION NOTE
Anti-Reflection (AR) Coatings

APPLICATION NOTE
Laser Beam Shaping Overview

TRENDING IN OPTICS

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

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

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