

TECHSPEC®

5mm H x 10mm L x 50mm FL VIS-NIR Coated, Illumination Grade PCX Cylinder Lens



Stock #47-960 10 In Stock

-

1

+

₹10,043

ADD TO CART

Volume Pricing	
Qty 1-5	₹10,043 each
Qty 6-25	₹9,031 each
Qty 26-49	₹8,564 each
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SPECIFICATIONS

General

Cylinder Lens, Plano-Convex

Type:

Physical & Mechanical Properties

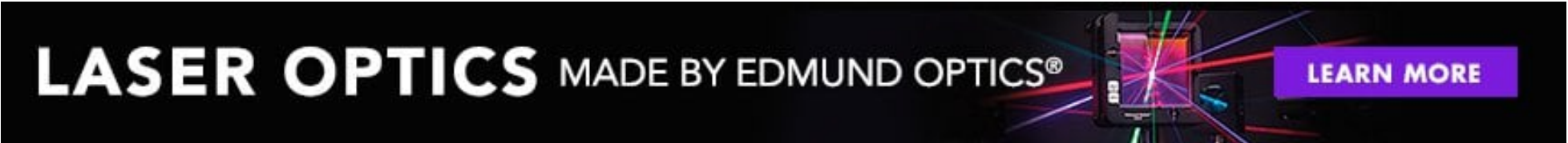
Center Thickness CT (mm):	
1.00	
Center Thickness Tolerance (mm):	
±0.1	
Dimensional Tolerance (mm):	
+0.0/-0.2	
Dimensions (mm):	
5.0 x 10.0	
Edge Thickness ET (mm):	
0.88	
Tilt Tolerance (mm):	
±0.1 over H	
Wedge Tolerance (arcmin):	
15.00	
Optical Properties	
Effective Focal Length EFL (mm):	
50.00	
Substrate:	
N-BK7	
f/#:	
10	
Numerical Aperture NA:	
0.05	
Coating:	
VIS-NIR (400-1000nm)	
Wavelength Range (nm):	
400 - 1000	
Back Focal Length BFL (mm):	
49.34	
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):	
25.80	
Surface Quality:	
60-40	
Damage Threshold, By Design:	
5 J/cm ² @ 532nm, 10ns	
Regulatory Compliance	
RoHS 2015:	
Compliant	
Certificate of Conformance:	
View	
Reach 235:	
Compliant	

PRODUCT DETAILS

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

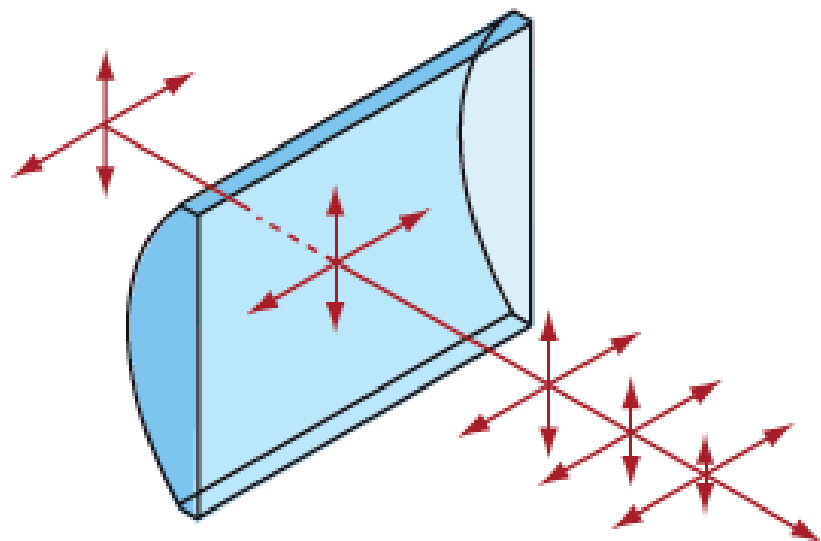
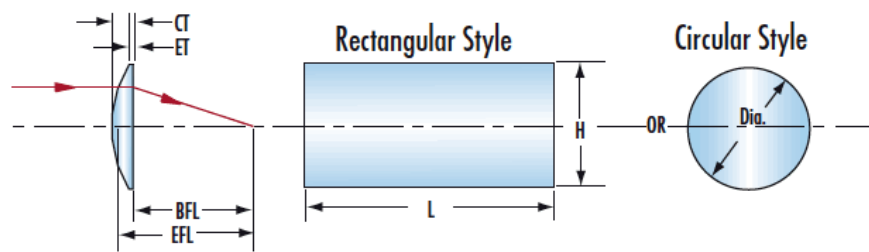
TECHSPEC® Illumination Grade PCX Cylinder Lenses are similar to Plano-Convex (PCX) lenses in profile, but include a portion of a cylinder instead of a sphere. These lenses focus light in one dimension and can transform a point of light into a line. TECHSPEC® Illumination Grade PCX Cylinder Lenses are 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

Circular And Rectangular Cylinder Lenses



PCX Rectangular

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](#).