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TECHSPEC® 12mm Diameter x 50mm FL, 355nm Coated, Laser Grade PCX Lens



TECHSPEC Laser Grade PCX Lenses

Stock **#67-952** **3 In Stock**

[Other Coating Options](#)

⊖ 1 ⊕ **\$291⁰⁰**

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Volume Pricing	
Qty 1-5	\$291.20 each
Qty 6-25	\$232.40 each
Qty 26-49	\$215.60 each
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Product Downloads

General

Plano-Convex Lens **Type:**

Physical & Mechanical Properties

12.00 +0.00/-0.10 **Diameter (mm):**

Centering (arcmin):

<1

Center Thickness CT (mm):
2.90 ±0.05

Edge Thickness ET (mm):
2.10

Clear Aperture CA (mm):
10.2

Bevel:
Protective as needed

Optical Properties

Effective Focal Length EFL (mm):
50.00 @ 587.6nm

Back Focal Length BFL (mm):
48.01

Coating:
Laser V-Coat (355nm)

Coating Specification:
 $R_{\text{abs}} < 0.25\%$ @ 355nm

Substrate:
[Fused Silica](#) (Corning 7980)

Surface Quality:
20-10

Power (P-V) @ 632.8nm:
 λ

Irregularity (P-V) @ 632.8nm:
 $\lambda/10$

Focal Length Tolerance (%):
 ± 1

Radius R_1 (mm):
22.92

f#:
4.17

Numerical Aperture NA:
0.12

Design Wavelength DWL (nm):
355

Damage Threshold, By Design:
 7.5 J/cm^2 @ 355nm, 20ns, 20Hz

Regulatory Compliance

RoHS 2015:
[Compliant](#)

REACH 201:
[Compliant](#)

Certificate of Conformance:
[View](#)

Product Details

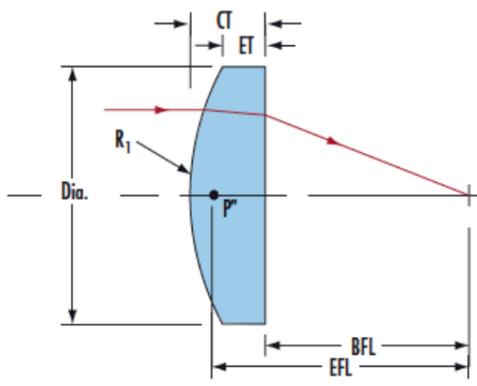
- Guaranteed Laser Damage Threshold
- 10-5 Surface Quality
- $\lambda/10$ Surface Accuracy

TECHSPEC® Laser Grade PCXLenses are designed for high energy Nd:YAG laser applications including laser cutting, machining, and welding. The precision fused silica substrate, featuring $\lambda/10$ surface accuracy and 10-5 surface quality, ensures low scatter and excellent transmitted wavefront performance. TECHSPEC® Laser Grade PCXLenses are available uncoated or with a variety of high laser damage threshold anti-reflection (AR) coating options. Coatings are available at the most common Nd:YAG laser wavelengths to ensure maximum laser throughput.

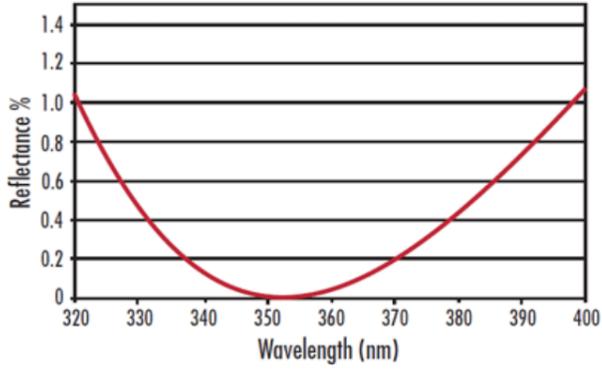
LASER OPTICS MADE BY EDMUND OPTICS®

[LEARN MORE](#)

Technical Information



355nm V-Coat
 $R_{(obs)} < 0.25\% @ 355\text{nm}$



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](#).

Compatible Mounts