

[All Products](#) / [Optics](#) / [Optical Lenses](#) / [Laser Grade Plano-Convex \(PCX\) Lenses](#)

[See all 195 Products in Family](#)

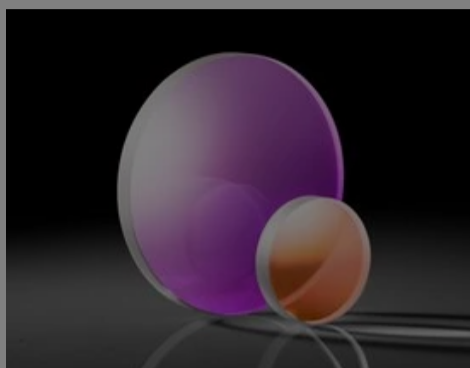
TECHSPEC®

12mm Diameter Laser Grade PCX Lens

Please select your shipping country to view the most accurate inventory information, and to determine the correct Edmund Optics sales office for your order.

Select Your Country/Region: European Union

Submit



TECHSPEC Laser Grade PCX Lenses

Stock #67-942 **9 In Stock** [Other Coating Options](#)

- 1 +

€208⁰⁰

ADD TO CART

Volume Pricing	
Qty 1-5	€208,00 each
Qty 6-25	€166,00 each
Qty 26-49	€154,00 each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads	
STEP:stp	Curve:pdf
PDF Drawing:pdf	
ISO 10110 Drawing	
IGES:igs	Curve (xlsx):xlsx
Zemax:zar	Zemax:zmx
eDrawing:eprt	Code V:seq
EO Spec Sheet	Download All

General

Type: Plano-Convex Lens

Physical & Mechanical Properties

Diameter (mm): 12.00
+0.00/-0.10

Centering (arcmin): <1

Center Thickness CT (mm): 2.90 ±0.05

Edge Thickness ET (mm): 2.1

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 (266nm)

Coating Specification: R_{abs} <0.25% @ 266nm

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

Surface Quality: 20-10

Power (P-V) @ 632.8nm: λ

Irregularity (P-V) @ 632.8nm: λ/10

Focal Length Tolerance (%): ±1

Radius R₁ (mm): 22.92

f/#: 4.17

Numerical Aperture NA: 0.12

Design Wavelength DWL (nm): 266

Damage Threshold: 3 J/cm² @ 266nm, 20ns

Please select your shipping country to view the most accurate inventory information, and to determine the correct Edmund Optics sales office for your order.

Select Your Country/Region:

Regulatory Compliance

RoHS 2015: **Compliant**

Certificate of Conformance: **View**

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:

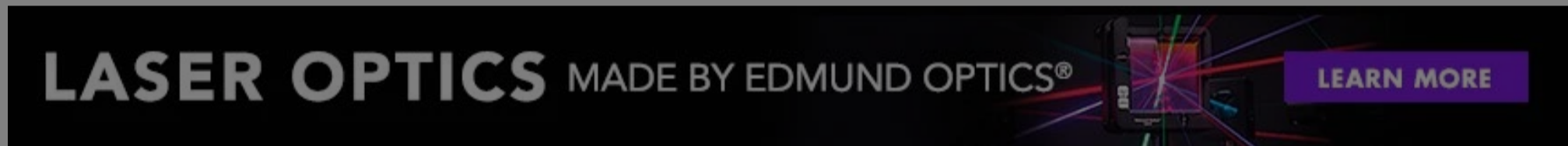
- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

Product Details

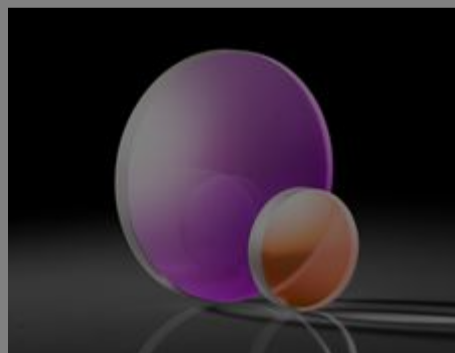
- Guaranteed Laser Damage Threshold
- 10-5 Surface Quality
- λ/10 Surface Accuracy

TECHSPEC® Laser Grade PCX Lenses are designed for high energy Nd:YAG laser applications including laser cutting, machining, and welding. The precision fused silica substrate, featuring λ/10 surface accuracy and 10-5 surface quality, ensures low scatter and excellent transmitted wavefront performance. TECHSPEC® Laser Grade PCX Lenses 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.

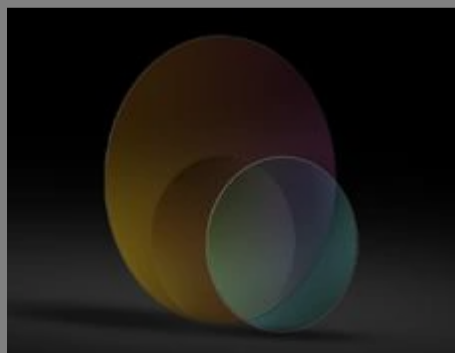


Technical Information

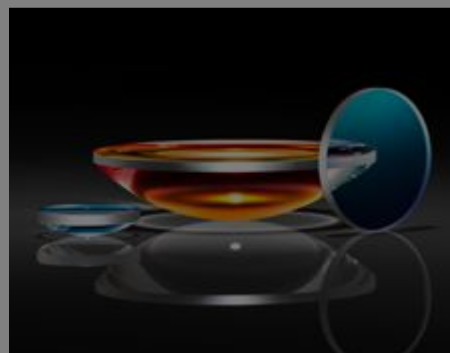
Related Products



Plano-Convex (PCX) Laser Lenses



Thin Fused Silica Plano-Convex (PCX) Laser Lenses











UV Fused Silica Plano-Convex (PCX) Lenses - Uncoated



Optical Lens and Filter Mounts

Compatible Mounts

	Title	Type	Compare	Stock Number	Price	Buy
MORE+ 	12.0mm Optic Diameter Optic Mount				€32,75	10 In Stock <input type="text" value="1"/> 
MORE+ 	12mm Inner Single Optic Mount					9 In Stock <input type="text" value="1"/> 
MORE+ 	25mm Cage 12mm Diameter Lens Mount	Fixed		#85-550	€45,75 Request Quote	3 In Stock <input type="text" value="1"/> 
MORE+ 	12mm Inner Pair Optic Mounts	Fixed		#11-405	€80,50 Request Quote	2 In Stock <input type="text" value="1"/> 

Please select your shipping country to view the most accurate inventory information, and to determine the correct Edmund Optics sales office for your order.

Select Your Country/Region:

Check out our full selection of mounts [here](#).

Resources

Media Type

- Application Note
- Technical Tool
- Video
- FAQ
- Trending in Optics
- Glossary
- Scientific Paper
- Published Article

APPLICATION NOTE

An Introduction to Optical Coatings

TECHNICAL TOOL

Gaussian Beams Calculator

VIDEO

Polarization Directed Flat Lenses Product Review

FAQ

What is the best lens for focusing or collimating th...

TRENDING IN OPTICS

Free-Space Optical Communication

APPLICATION NOTE

Common Laser Optics Materials

[View More](#)