

TECHSPEC® 12mm Dia. x 50mm FL 1064nm V-Coat, Fused Silica PCX Lens



Stock #34-137 **6 In Stock**

[Other Coating Options](#)

⊖ 1 ⊕ C\$204⁴⁰

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Volume Pricing	
Qty 1-5	C\$204.40 each
Qty 6-25	C\$162.40 each
Qty 26-49	C\$154.00 each
Need More?	Request Quote

Product Downloads

General

Plano-Convex Lens **Type:**

Physical & Mechanical Properties

12.00 +0.0/-0.025 **Diameter (mm):**

≤1	Centering (arcmin):
2.90 ±0.05	Center Thickness CT (mm):
2.1	Edge Thickness ET (mm):
11	Clear Aperture CA (mm):
Protective as needed	Bevel:
Fine Ground, Protective Bevel as Needed	Edges:
Optical Properties	
50.00 @ 587.6nm	Effective Focal Length EFL (mm):
48.01	Back Focal Length BFL (mm):
Laser V-Coat (1064nm)	Coating:
R _{abs} <0.25% @ 1064nm	Coating Specification:
Fused Silica (Corning 7980)	Substrate: <input type="checkbox"/>
40-20	Surface Quality:
1.5λ	Power (P-V) @ 632.8nm:
λ/4	Irregularity (P-V) @ 632.8nm:
±1	Focal Length Tolerance (%):
22.92	Radius R₁ (mm):
4.17	f#:
0.12	Numerical Aperture NA:
1064	Design Wavelength DWL (nm):
5 J/cm ² @ 1064nm, 10ns	Damage Threshold, By Design: <input type="checkbox"/>

Regulatory Compliance	
Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 235:

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

- <0.25% Reflection at 1064nm for Fiber and Nd:YAG Applications
- 5 - 50mm Diameters Available
- 10 - 250mm EFL Designs Available
- [405nm](#), [532nm](#), [633nm](#), and [1550nm](#) V-Coated Options Offered

TECHSPEC® Laser Line Coated Fused Silica PCX Lenses are available in a variety of laser line V-Coat AR coating options. Designed for maximum throughput at the specified laser wavelength, these lenses are ideal for applications utilizing low power HeNe, Diode, and Nd:YAG laser sources. With a maximum reflection of <0.25% per surface at the design wavelength, the lenses will provide superior transmission in applications utilizing multiple optical components.

Compatible Mounts
