TECHSPEC® 12.7mm Square x 50 FL, 1064nm AR Coated, Laser Grade PCX Cylinder Lens

Stock **#37-605** **5 In Stock**

- 1 + **€209**.00

ADD TO CART

Volume Pricing	
Qty 1-5	**€209,00** each
Qty 6-25	**€187,00** each
Qty 26-49	**€179,00** each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

SPECIFICATIONS

General

Type:

Cylinder Lens, Plano-Convex

Physical & Mechanical Properties

Bevel:
Protective as needed

Center Thickness CT (mm):
3.00

Center Thickness Tolerance (mm):
±0.1

Clear Aperture CA (mm):
11.43 x 11.43

Dimensional Tolerance (mm):
+0.0/-0.025

Dimensions (mm):
12.7 x 12.7

Edge Thickness ET (mm):
2.1

Axial Twist (arcmin):
<3

Optical Properties

Effective Focal Length EFL (mm):
50.00

Substrate:
Fused Silica (Corning 7980)

f/#:
4

Numerical Aperture NA:
0.125

Coating:
Laser V-Coat (1064nm)

Back Focal Length BFL (mm):
47.95

Coating Specification:
R_{abs} <0.25% @ 1064nm

Design Wavelength DWL (nm):
1064

Focal Length Specification Wavelength (nm):
587.6

Radius R_1 (mm):
22.93

Surface Quality:
20-10

Damage Threshold, By Design:
15 J/cm^2 @ 1064nm, 20ns, 20Hz

Power (P-V) @ 632.8nm:
1.5λ

Irregularity (P-V) @ 632.8nm:
λ/4

Plano Axis Wedge (arcmin):
<3

Power Axis Wedge (arcmin):
<4.5

Regulatory Compliance

RoHS 2015:
Compliant

Reach 209:
Compliant

Certificate of Conformance:
View

PRODUCT DETAILS

- <0.25% AR Coated for Nd:YAG Harmonics
- <3 Arcminute Wedge Tolerance
- Fused Silica Substrate

TECHSPEC® Laser Grade Laser Line Cylinder Lenses are manufactured with tightly controlled geometric wedge tolerances to facilitate drop in compatibility. These laser line cylinder lenses feature laser grade optical specifications including 20-10 surface quality and λ/4 surface irregularity on both plano and cylindrical surfaces. TECHSPEC Laser Grade Laser Line Cylinder Lenses are available in 266nm, 355nm, 532nm, and 1064nm AR coated versions, with specified laser induced damage thresholds. These fused silica lenses are ideal for demanding laser machining and medical applications.

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.**