

TECHSPEC[®] 4mm Dia. x 12mm FL UV-AR Coated, UV Plano-Convex Lens



UV Fused Silica Plano-Convex (PCX) Lenses



Stock **#72-293** 5 In Stock

-

1

+

€131^{.00}

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Volume Pricing	
Qty 1-5	€131,00 each
Qty 6-25	€106,00 each
Qty 26-49	€98,50 each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Plano-Convex Lens

Type:

Physical & Mechanical Properties

4.00	Diameter (mm):
<1	Centering (arcmin):
1.40 ±0.05	Center Thickness CT (mm):
1.02	Edge Thickness ET (mm):
3.6	Clear Aperture CA (mm):
Protective as needed	Bevel:

Optical Properties	
12.00 @ 587.6	Effective Focal Length EFL (mm):
11.04	Back Focal Length BFL (mm):
UV-AR (250-425nm)	Coating:
R _{abs} ≤1.0% @ 250 - 425nm R _{avg} ≤0.75% @ 250 - 425nm R _{avg} ≤0.5% @ 370 - 420nm	Coating Specification:
Fused Silica (Corning 7980)	Substrate: □
20-10	Surface Quality:
3λ	Power (P-V) @ 632.8nm:
2λ	Irregularity (P-V) @ 632.8nm:
±1	Focal Length Tolerance (%):
5.50	Radius R ₁ (mm):
2	f/#:
0.25	Numerical Aperture NA:
250 - 425	Wavelength Range (nm):
3 J/cm2 @ 355nm, 10ns	Damage Threshold, Reference: □

Regulatory Compliance	
View	Certificate of Conformance:

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

- AR Coated to Provide <0.75% Reflection per Surface for 250 - 425nm
- Precision Fused Silica Substrate
- Various Coating Options: [Uncoated](#), [MgF₂](#), [UV-VIS](#), [VIS-EXT](#), [VIS-NIR](#), [VIS 0°](#), [YAG-BBAR](#), [NIR I](#), and [NIR II](#)

TECHSPEC® UV Fused Silica Plano-Convex (PCX) Lenses UV-AR Coated feature precision specifications and a [variety of coating options](#) on a broadband substrate. Fused Silica is commonly used in applications from the Ultraviolet (UV) through the Near-Infrared (NIR). Its low index of refraction, low coefficient of thermal expansion, and low inclusion content make it ideal for laser applications and harsh environmental conditions. TECHSPEC® UV Fused Silica Plano-Convex (PCX) Lenses UV-AR Coated feature industry leading diameter and centration specifications, making them ideal for integration into demanding imaging and targeting applications. These lenses are UV-AR coated to increase their coating performance in the ultraviolet region.

Technical Information

FUSED SILICA																									
Uncoated Fused Silica Typical Transmission <table border="1"><caption>Approximate data for Uncoated Fused Silica</caption><thead><tr><th>Wavelength (nm)</th><th>Transmission T (%)</th></tr></thead><tbody><tr><td>200</td><td>92.5</td></tr><tr><td>400</td><td>93.5</td></tr><tr><td>600</td><td>93.8</td></tr><tr><td>800</td><td>93.8</td></tr><tr><td>1000</td><td>93.8</td></tr><tr><td>1200</td><td>93.8</td></tr><tr><td>1400</td><td>91.5</td></tr><tr><td>1600</td><td>93.8</td></tr><tr><td>1800</td><td>94.0</td></tr><tr><td>2000</td><td>94.0</td></tr><tr><td>2200</td><td>90.0</td></tr></tbody></table>	Wavelength (nm)	Transmission T (%)	200	92.5	400	93.5	600	93.8	800	93.8	1000	93.8	1200	93.8	1400	91.5	1600	93.8	1800	94.0	2000	94.0	2200	90.0	Typical transmission of a 3mm thick, uncoated fused silica window across the UV - NIR spectra. Click Here to Download Data
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