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**TECHSPEC® 20mm Dia. x 30mm FL VIS-NIR Coated, UV Plano-Convex Lens**



UV Fused Silica Plano-Convex (PCX) Lenses



Stock #63-800 **4 In Stock**

⊖ 1 ⊕ €176.<sup>00</sup>

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Volume Pricing	
Qty 1-5	€176,00 each
Qty 6-25	€141,00 each
Qty 26-49	€132,00 each
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ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

**General**

Plano-Convex Lens **Type:**

**Physical & Mechanical Properties**

20.00 +0.0/-0.025	<b>Diameter (mm):</b>
<1	<b>Centering (arcmin):</b>
6.00 ±0.10	<b>Center Thickness CT (mm):</b>
1.69	<b>Edge Thickness ET (mm):</b>
19	<b>Clear Aperture CA (mm):</b>
Protective as needed	<b>Bevel:</b>

## Optical Properties

30.00 @ 587.6nm	<b>Effective Focal Length EFL (mm):</b>
25.88	<b>Back Focal Length BFL (mm):</b>
VIS-NIR (400-1000nm)	<b>Coating:</b>
R <sub>abs</sub> ≤0.25% @ 880nm R <sub>avg</sub> ≤1.25% @ 400 - 870nm R <sub>avg</sub> ≤1.25% @ 890 - 1000nm	<b>Coating Specification:</b>
Fused Silica (Corning 7980)	<b>Substrate:</b> <input type="checkbox"/>
40-20	<b>Surface Quality:</b>
1.5λ	<b>Power (P-V) @ 632.8nm:</b>
λ/4	<b>Irregularity (P-V) @ 632.8nm:</b>
±1	<b>Focal Length Tolerance (%):</b>
13.75	<b>Radius R<sub>1</sub> (mm):</b>
1.5	<b>f#:</b>
0.33	<b>Numerical Aperture NA:</b>
400 - 1000	<b>Wavelength Range (nm):</b>
5 J/cm <sup>2</sup> @ 532nm, 10ns	<b>Damage Threshold, Reference:</b> <input type="checkbox"/>

## Regulatory Compliance

Compliant	<b>RoHS 2015:</b>
View	<b>Certificate of Conformance:</b>
Compliant	<b>Reach 235:</b>

## 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 <1.25% Reflection per Surface for 400 - 870nm and for 890 – 1000nm
- Precision Fused Silica Substrate
- Various Coating Options: [Uncoated](#), [MgF<sub>2</sub>](#), [UV-AR](#), [UV-VIS](#), [VIS-EXT](#), [VIS 0°](#), [YAG-BBAR](#), [NIR I](#), and [NIR II](#)

TECHSPEC® UV Fused Silica Plano-Convex (PCX) Lenses VIS-NIR 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 VIS-NIR Coated feature industry leading diameter and centering specifications, making them ideal for integration into demanding imaging and targeting applications. These lenses are VIS-NIR coated to increase their coating performance in the visible and near infrared region.

# Technical Information



UV FS Transmission Curve



## FUSED SILICA

### Uncoated Fused Silica Typical Transmission



Typical transmission of a 3mm thick, uncoated fused silica window across the UV - NIR spectra.

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### Fused Silica with $MgF_2$ Coating Typical Transmission



Typical transmission of a 3mm thick fused silica window with  $MgF_2$  (400-700nm) coating at 0° AOI.

The blue shaded region indicates the coating design wavelength range, with the following specification:

$$R_{avg} \leq 1.75\% @ 400 - 700nm (N-BK7)$$

Data outside this range is not guaranteed and is for reference only.

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### Fused Silica with UV-AR Coating Typical Transmission



Typical transmission of a 3mm thick fused silica window with UV-AR (250-425nm) coating at 0° AOI.

The blue shaded region indicates the coating design wavelength range, with the following specification:

$$R_{abs} \leq 1.0\% @ 250 - 425nm$$

$$R_{avg} \leq 0.75\% @ 250 - 425nm$$

$$R_{avg} \leq 0.5\% @ 370 - 420nm$$

Data outside this range is not guaranteed and is for reference



Data outside this range is not guaranteed and is for reference only.

[Click Here to Download Data](#)

### Fused Silica with UV-VIS Coating Typical Transmission



Typical transmission of a 3mm thick fused silica window with UV-VIS (250-700nm) coating at 0° AOI.

The blue shaded region indicates the coating design wavelength range, with the following specification:

$$R_{abs} \leq 1.0\% @ 350 - 450\text{nm}$$

$$R_{avg} \leq 1.5\% @ 250 - 700\text{nm}$$

Data outside this range is not guaranteed and is for reference only.

[Click Here to Download Data](#)

### Fused Silica with VIS-EXT Coating Typical Transmission



Typical transmission of a 3mm thick fused silica window with VIS-EXT (350-700nm) coating at 0° AOI.

The blue shaded region indicates the coating design wavelength range, with the following specification:

$$R_{avg} \leq 0.5\% @ 350 - 700\text{nm}$$

Data outside this range is not guaranteed and is for reference only.

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### Fused Silica with VIS-NIR Coating Typical Transmission



Typical transmission of a 3mm thick fused silica window with VIS-NIR (400-1000nm) coating at 0° AOI.

The blue shaded region indicates the coating design wavelength range, with the following specification:

$$R_{abs} \leq 0.25\% @ 880\text{nm}$$

$$R_{avg} \leq 1.25\% @ 400 - 870\text{nm}$$

$$R_{avg} \leq 1.25\% @ 890 - 1000\text{nm}$$

Data outside this range is not guaranteed and is for reference only.

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### Fused Silica with VIS 0° Coating Typical Transmission



Typical transmission of a 3mm thick fused silica window with VIS 0° (425-675nm) coating at 0° AOI.

The blue shaded region indicates the coating design wavelength range, with the following specification:

$$R_{avg} \leq 0.4\% @ 425 - 675\text{nm}$$

Data outside this range is not guaranteed and is for reference only.

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<p style="text-align: center;">200      400      600      800      1000      1200</p> <p style="text-align: center;"><b>Wavelength (nm)</b></p> <p style="text-align: center;"><b>Fused Silica with YAG-BBAR Coating Typical Transmission</b></p>  <p style="text-align: center;">200      400      600      800      1000      1200      1400      1600</p> <p style="text-align: center;"><b>Wavelength (nm)</b></p>	<p>Typical transmission of a 3mm thick fused silica window with YAG-BBAR (500-1100nm) coating at 0° AOI.</p> <p>The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p style="text-align: center;"><math>R_{abs} \leq 0.25\% @ 532nm</math>  <math>R_{abs} \leq 0.25\% @ 1064nm</math>  <math>R_{avg} \leq 1.0\% @ 500 - 1100nm</math></p> <p>Data outside this range is not guaranteed and is for reference only.</p> <p style="text-align: center;"><a href="#">Click Here to Download Data</a></p>
<p style="text-align: center;"><b>Fused Silica with NIR I Coating Typical Transmission</b></p>  <p style="text-align: center;">200      400      600      800      1000      1200      1400      1600</p> <p style="text-align: center;"><b>Wavelength (nm)</b></p>	<p>Typical transmission of a 3mm thick fused silica window with NIR I (600 - 1050nm) coating at 0° AOI.</p> <p>The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p style="text-align: center;"><math>R_{avg} \leq 0.5\% @ 600 - 1050nm</math></p> <p>Data outside this range is not guaranteed and is for reference only.</p> <p style="text-align: center;"><a href="#">Click Here to Download Data</a></p>
<p style="text-align: center;"><b>Fused Silica with NIR II Coating Typical Transmission</b></p>  <p style="text-align: center;">200      400      600      800      1000      1200      1400      1600      1800      2000</p> <p style="text-align: center;"><b>Wavelength (nm)</b></p>	<p>Typical transmission of a 3mm thick fused silica window with NIR II (750 - 1550nm) coating at 0° AOI.</p> <p>The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p style="text-align: center;"><math>R_{abs} \leq 1.5\% @ 750 - 800nm</math>  <math>R_{abs} \leq 1.0\% @ 800 - 1550nm</math>  <math>R_{avg} \leq 0.7\% @ 750 - 1550nm</math></p> <p>Data outside this range is not guaranteed and is for reference only.</p> <p style="text-align: center;"><a href="#">Click Here to Download Data</a></p>

### Coating Curves

### Compatible Mounts