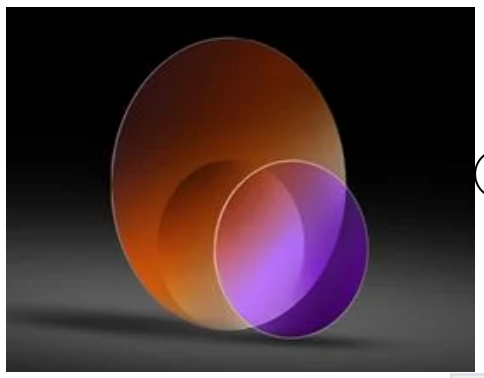
TECHSPEC®

12.7mm Diameter x 300mm FL, Uncoated, Ultrafast Thin PCX Lens



Stock #11-718 20+ In Stock

Other Coating Options

- 1 +

£74.00

ADD TO CART

Volume Pricing	
Qty 1-5	£74.00 each
Qty 6-25	£64.80 each
Qty 26-49	£59.20 each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

STEP:step | PDF Drawing:pdf | IGES:igs | Zemax:zmx | eDrawing:eprt | Code V:seq | EO Spec Sheet | Download All

General

Type:	Plano-Convex Lens

Physical & Mechanical Properties

Diameter (mm):	12.70 +0.00/-0.10	**Centering (arcmin):**	<3
Center Thickness CT (mm):	1.50 ±0.10	**Edge Thickness ET (mm):**	1.354
Clear Aperture CA (mm):	11.43	**Bevel:**	Protective as needed

Optical Properties

Effective Focal Length EFL (mm):	300.35 @ 587.6nm	**Back Focal Length BFL (mm):**	299.32
Coating:	Uncoated	**Substrate:** ⓘ	Fused Silica (Corning 7980)
Surface Quality:	20-10	**Power (P-V) @ 632.8nm:**	1.5λ
Irregularity (P-V) @ 632.8nm:	λ/8	**Focal Length Tolerance (%):**	±1
Radius R_1 (mm):	137.70	**f/#:**	23.63
Numerical Aperture NA:	0.02	**Wavelength Range (nm):**	200 - 2200

Regulatory Compliance

RoHS 2015:	**Compliant**	**Reach 219:**	**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

- Ultra-Thin Center Thickness to Limit GDD
- Low Loss Broadband IBS Anti-Reflection Coating
- Ideal for Ultrafast and Laser Optics Applications
- UV or IR Grade Fused Silica Substrates

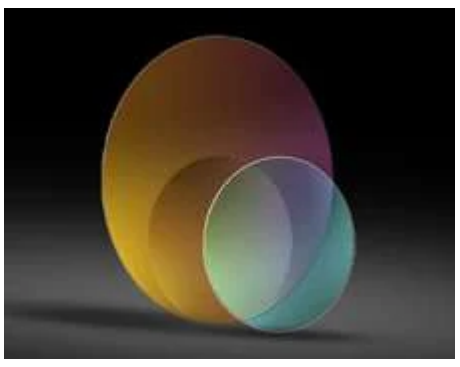
TECHSPEC® Ultrafast Thin Plano-Convex Lenses are designed with an ultra-thin center thickness to provide a low group delay dispersion (GDD) for ultrafast laser pulses.TECHSPEC Ultrafast Thin Plano-Convex Lenses are ideal for collecting and focusing light from laser sources and their corresponding harmonics, including Ti:sapphire, Yb:YAG, and Nd:YAG, Holmium, and Thulium lasers. These thin PCX lenses are available in standard sizes with effective focal lengths from 50mm to 2000mm.

IR grade fused silica differs from UV grade fused silica by its reduced amount of OH- ions, resulting in higher transmission throughout the NIR spectrum and reduction of transmission in the UV spectrum.

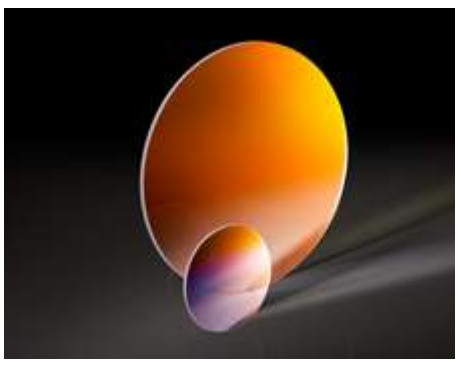
Technical Information

Related Products

Ultrafast Optics



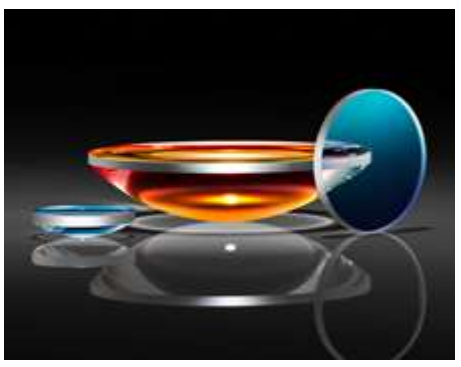
Thin Fused Silica Plano-Convex (PCX) Laser Lenses



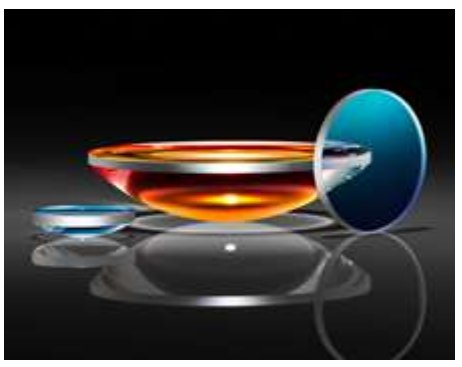
Ultrafast Thin Windows

Frequently Purchased Together

#33-974 - Basler ace acA640-750um Monochrome USB



#48-807 - 6mm Dia. x 18mm FL UV-VIS Coated, UV Plano-Convex Lens



#48-808 - 6mm Dia. x 24mm FL UV-VIS Coated, UV Plano-

#87-208 - C-mount Electrical Shutter

3.0 Camera
£375.00
Qty

£119.20
Qty

Convex Lens
£119.20
Qty

£504.00
Qty

Compatible Mounts

	Title	Type	Compare	Stock Number	Price ☐	Buy
MORE+ 	12.7mm Optic Dia., Optic Mount	Fixed		#64-556	£26.20 Request Quote	11 In Stock 1
MORE+ 	12.5/12.7mm Optic Dia., X-Y Translating Optic Mount	Adjustable - Linear (XY)		#62-955	£208.80 Request Quote	5 In Stock 1
MORE+ 	12.5/12.7mm Optic Dia., X-Y-Z Translating Optic Mount	Adjustable - Linear (XYZ)		#62-958	£343.20 Request Quote	5 In Stock 1

Check out our full selection of mounts **here**.

Resources

Media Type

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

APPLICATION NOTE
An Introduction to Optical Coatings

TECHNICAL TOOL
Gaussian Beams Calculator

CASE STUDIES
Laser Optics for Eye Surgery

APPLICATION NOTE
Basics of Ultrafast Lasers

TRENDING IN OPTICS
Ultrafast Highly-Dispersive Mirrors

APPLICATION NOTE
Group Delay Dispersion and White Light Interferometry

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