

12.7mm Dia. x -50.8mm FL, Uncoated, ISP Optics Calcium Fluoride (CaF₂) PCV Lens | CF-PC-12-50

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Stock **#24-779** CLEARANCE CONTACT US

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€69^{.53} €139,05

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Volume Pricing	
Qty 1-9	€139,05 €69,53 each
Qty 10+	€125,15 €62,58 each
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i Prices shown are exclusive of VAT/local taxes

Product Downloads

SPECIFICATIONS

General

Type:
Plano-Concave Lens

CF-PC-12-50	Model Number:
Physical & Mechanical Properties	
12.70 +0.00/-0.13	Diameter (mm):
Protective as needed	Bevel:
1.50 ±0.20	Center Thickness CT (mm):
<3	Centering (arcmin):
11.43	Clear Aperture CA (mm):
2.50	Edge Thickness ET (mm):
Optical Properties	
-50.80 @5μm	Effective Focal Length EFL (mm):
Calcium Fluoride (CaF ₂)	Substrate:
4.00	f/#:
0.13	Numerical Aperture NA:
Uncoated	Coating:
300 - 8000	Wavelength Range (nm):
±2	Focal Length Tolerance (%):
-20.46	Radius R ₁ (mm):
60-40	Surface Quality:
λ	Irregularity (P-V) @ 632.8nm:
Regulatory Compliance	
Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 240:

PRODUCT DETAILS

- Low Index of Refraction
- IR Grade Calcium Fluoride Substrates
- Standard Imperial Sizes for Easy Benchtop Integration

ISP Optics Calcium Fluoride (CaF₂) Plano-Concave (PCV) Lenses feature IR grade calcium fluoride substrates, providing high transmission in the visible and infrared spectra. Calcium fluoride has a low index of refraction, enabling these lenses to be used without additional Anti-Reflection (AR) coatings. The PCV design diverges incident collimated beams, making them ideal for light projection and beam expansion applications. ISP Optics Calcium Fluoride (CaF₂) Plano-Concave (PCV) Lenses are available in standard imperial sizes with focal lengths ranging from -25.4 to -500mm.

SPECIAL HANDLING

These optics require special handling to avoid damage and ensure long-term performance. Proper handling, cleaning, and storage are essential to maintain optical quality. Explore our [Optics Cleaning Resources](#) for step-by-step guides and best practices. For personalized assistance, [Email us](#) or [Chat](#) with our technical support team.



Component Handling Tools