

[See all 102 Products in Family](#)

18.5mm Diameter x 12mm FL, Aspheric Condenser Lens



Stock **#84-882** **20+ In Stock**

[Other Coating Options](#)

⊖ 1 ⊕ €53⁵⁰

ADD TO CART

Volume Pricing	
Qty 1-10	€53,50 each
Qty 11-49	€48,00 each
Need More?	Request Quote

ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Condenser Lens **Type:**

Physical & Mechanical Properties

18.50 +0.00/-0.15 **Diameter (mm):**

≤30 **Centering (arcmin):**

17.5	Clear Aperture CA (mm):
1.5	Edge Thickness ET (mm):
8.00 +0.5/-0.1	Center Thickness CT (mm):
Protective as needed	Bevel:
18.5	Diameter of Asphere (mm):
Convex	Shape of Back Surface:

Optical Properties

12.00	Effective Focal Length EFL (mm):
0.77	Numerical Aperture NA:
8.7	Back Focal Length BFL (mm):
B270	Substrate: <input type="checkbox"/>
±7	Focal Length Tolerance (%):
Uncoated	Coating:
80-50 (typical)	Surface Quality:
0.6	f/#:
58.5	Abbe Number (v_d):
1.523	Index of Refraction (n_d):
11.3	Radius R_2 (mm):
350 - 2500	Wavelength Range (nm):
Infinite	Conjugate Distance:

Material Properties

9.4	Coefficient of Thermal Expansion CTE ($10^{-6}/^{\circ}\text{C}$):
-----	--

Regulatory Compliance

Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 235:

Product Details

- Molded Illumination Lenses
- Aspheric or Spherical Designs
- High Numerical Apertures

Condenser Lenses are molded lenses designed for illumination applications. Featuring large apertures and short focal lengths, Condenser Lenses are commonly used in emitter-detector applications, projection applications, or condensing illumination applications such as Koehler Illumination. The Aspheric Condenser Lenses are molded on the aspheric surface and ground and polished on the opposite face, offering superior performance. The Plano-Convex (PCX) Condenser Lenses are molded on both surfaces, offering excellent value.

Technical Information



