

Fiber Optic Taper For 18mm to 1/2" Sensor



Stock #55-136 **20+ In Stock**

- 1 + MRP ₹1,57,176

i Price inclusive of all taxes

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Volume Pricing	
Qty 1-4	₹1,57,176 each
Qty 5-24	₹1,40,184 each
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General

70 / 30 **Core/ Clad Ratio:**

Physical & Mechanical Properties

±0.5, Large End **Diameter Tolerance (mm):**

20.00 **Height (mm):**

Diameter of Large End (mm):

20.00

Size Ratio:

18:1/2" CCD

Size of Small End (mm):

6.4 x 4.8

Thickness Tolerance (mm):

±0.1

Dimensional Tolerance (mm):

±0.1

Optical Properties

Distortion (%):

3.00

Substrate:

[Schott 24 Glass with EMA](#)

Numerical Aperture NA:

1.00

Resolution:

102 lp/mm

Surface Quality:

30-20

Resolving Power (µm):

6.00

Material Properties

Coefficient of Thermal Expansion CTE (10⁻⁶/°C):

6.8

Environmental & Durability Factors

Operating Temperature (°C):

-10 to +300

Regulatory Compliance

Certificate of Conformance:

[View](#)

Country of Origin:

United States

Imported By:

Edmund Optics India Private Limited
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6th Cross Rd, Binnamangala,
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Product Details

- Coherent Arrangement of Fibers
- Made with EMA Fibers to Absorb Light
- Round-to-Round or Round-to-Rectangular Tapers Types Available

Fiber Optic Tapers utilize a coherent fiber optic plate that transmits either a magnified or reduced image from its input surface to its output surface. These low distortion tapers are made with EMA Fibers to absorb light and are optimized for 1/2" or 2/3" sensor chip sizes. Magnification is a ratio of the diameters of the large and small ends of the tapers. Typical applications include image magnification or reduction, sensor coupling, fluoroscopy, and light sensors.

Fiber Optic Faceplates transmit images from input surface to output surface using coherent fibers. Common uses include CRT/LCD displays, sensor coupling, X-ray imaging and image intensification. All tapers and faceplates are suitable for visible and NIR applications and feature beveled edges.