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## 1500µm with 1 Fiber, Optical Grade Plastic Light Guide



Stock #02-550 **20+ In Stock**

S\$5<sup>95</sup>

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### Product Downloads

### Physical & Mechanical Properties

55 **Minimum Bend Radius (mm):**

1.00 **Number of Fibers:**

2.2 **Outer Diameter (mm):**

1470.00 **Core Diameter (µm):**

Cut to Order, Minimum 10 **Length (ft):**

Black Polyethylene Jacket **Construction:**

**Diameter Tolerance (%):**  
±6

## Optical Properties

**Acceptance Angle (°):**  
60.00

**Substrate:**   
Acrylic

**Attenuation (dB/m):**  
0.22

**Numerical Aperture NA:**  
0.50

**Fiber Diameter (µm):**  
1500.00

**Index of Refraction (n<sub>1</sub>) - Core:**  
1.49

**Index of Refraction (n<sub>2</sub>) - Cladding:**  
1.402

**Attenuation (dB/km):**  
150 - 300 (@650nm)

**Numerical Aperture (NA) Tolerance:**  
±0.03

## Environmental & Durability Factors

**Operating Temperature (°C):**  
-55 to +70

## Regulatory Compliance

**RoHS 2015:**  
[Compliant](#)

**Certificate of Conformance:**  
[View](#)

**Reach 240:**  
[Compliant](#)

## Product Details

Price listed is per foot - minimum order is 10 feet per stock number. 3mm Fiber is lower grade Eska® fiber for commercial applications only.

- Superior Light Transmission
- ESKA® Fiber Strands
- Step Index

Optical Grade Fiber Optics, developed and manufactured by Mitsubishi, are offered in two grades, both with superior optical properties for improved transmission. The core of both is made of acrylic polymer PMMA (polymethyl-methacrylate) and is sheathed with a particular thin layer of fluorine polymer which has a lower refractive index than the fiber core. Optical Grade Fiber Optics are designed to provide higher transmission in the visible region of the spectrum. They can be used for a wide range of applications, from general industrial light guides to short-distance data transmission. The fiber is tough and flexible but is not designed to bear loads.

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## Technical Information

