



## ClearLite® MICRO 1550 17 Optical Fiber

P/N: BF06159

**Overview** This optical fiber with a NA of 0.17 operates efficiently at 1550 nm.

**Typical Applications**

- Gyroscopes
- Sensors

### Product Specifications

| Product Description                 | ClearLite MICRO 1550 17 Optical Fiber                                                                |
|-------------------------------------|------------------------------------------------------------------------------------------------------|
| <b>Physical Characteristics</b>     |                                                                                                      |
| Coating Material                    | Single UV Acrylate                                                                                   |
| Core Diameter (Nominal)             | 6.5 $\mu\text{m}$                                                                                    |
| Cladding Diameter                   | 80 $\pm$ 2 $\mu\text{m}$                                                                             |
| Coating/Buffer Diameter             | 130 $\pm$ 4 $\mu\text{m}$                                                                            |
| Clad Non-Circularity                | $\leq$ 2.0%                                                                                          |
| Core/Clad Offset                    | $\leq$ 0.75 $\mu\text{m}$                                                                            |
| <b>Optical Characteristics</b>      |                                                                                                      |
| Type                                | Single-Mode                                                                                          |
| Operating Wavelength                | 1550 nm                                                                                              |
| Cutoff Wavelength                   | $\leq$ 1500 nm                                                                                       |
| Mode Field Diameter @ 1550 nm       | 7.5 $\pm$ 0.75 $\mu\text{m}$                                                                         |
| Attenuation @ 1550 nm               | $\leq$ 0.7 dB/km                                                                                     |
| Numerical Aperture (Nominal)        | 0.17                                                                                                 |
| <b>Mechanical and Environmental</b> |                                                                                                      |
| Operating Temperature               | -40 to +85 °C                                                                                        |
| Short-Term Bend Radius              | $\geq$ 7 mm                                                                                          |
| Long-Term Bend Radius               | $\geq$ 11 mm                                                                                         |
| Proof Test Level                    | $\geq$ 100 kpsi (0.689 GPa)                                                                          |
| <b>Order by Part Number</b>         | <b>BF06159</b>                                                                                       |
| <b>Product Description Code</b>     | <b>SMM-E1550A</b>                                                                                    |
| <b>OPTIONS</b>                      | Buffer Color, Buffer Material, Buffer Size, Cutoff Wavelength, Metalization, Proof Test, Termination |

**Contact Information** For additional information please contact your sales representative. You can also visit our website at [www.lightera.com](http://www.lightera.com) or call 1-888-FIBERHELP (1-888-342-3743) USA or 1-770-798-5555 outside the USA. For a full list of our certifications, visit our website.

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