# Optical Fiber
# OM5 (50/125µm Multimode Fiber)
Datasheet: **GD106057**

## 850 nm LASER-OPTIMIZED 50/125 MULTIMODE OPTICAL FIBER
## IEC 60793-2-10 Type A1-OM5 and ISO/IEC 11801 (OM5 cabled optical fiber)

| | | |
|---|---|---|
| Attenuation | @ 850 nm<br>@ 1300 nm | ≤ 2.8 dB/km<br>≤ 0.8 dB/km |
| Overfilled Modal Bandwidth | @ 850 nm<br>@ 953 nm<br>@ 1300 nm | ≥ 3500 MHz.km<br>≥ 1850 MHz.km<br>≥ 500 MHz.km |
| Effective Modal Bandwidth | @ 850 nm<br>@ 953 nm | ≥ 4700 MHz.km<br>≥ 2470 MHz.km |
| Numerical Aperture | | 0.200 ± 0.015 |
| Chromatic Dispersion:<br>Zero-Dispersion Slope @ wavelength $\lambda_0$ | $1297 \leq \lambda_0 \leq 1328$ nm | $\leq 4(-103)/(840(1-(\lambda_0/840)4))$ ps/(nm$^2$.km) |
| Attenuation Uniformity | Point or Step Defects<br>Extended variations | ≤ 0.1 dB<br>≤ 0.1 dB |
| Group Index of Refraction | @ 850 nm<br>@ 1300 nm | 1.482 (Typical)<br>1.477 (Typical) |

### MACROBENDING PROPERTIES

| | | |
|---|---|---|
| 2 Turns Around 15mm Diameter | @850 nm | ≤0.1 dB/km |
| 2 Turns Around 15mm Diameter | @1300 nm | ≤0.3 dB/km |
| 2 Turns Around 7.5mm Diameter | @850 nm | ≤0.2 dB/km |
| 2 Turns Around 7.5mm Diameter | @1300 nm | ≤0.5 dB/km |

### GEOMETRICAL PROPERTIES

| | |
|---|---|
| Core | 50 ± 2.5 µm |
| Core Non-Circularity | ≤ 5.0 % |
| Core/Cladding Concentricity Error | ≤ 1.5 µm |
| Cladding Diameter | 125.0 ± 1.0 µm |
| Cladding Non-Circularity | ≤ 1 % |
| Coating Diameter | 245 ± 10 µm |
| Coating Concentricity Error | ≤ 12.5 µm |
| Coating Non-Circularity | ≤ 6 % |

### MECHANICAL PROPERTIES

| | |
|---|---|
| Proof Test Level | ≥ 0.69 GPa / ≥ 1.0 % |

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