

# 50/125 Graded-Index OM2 Optical Fiber

P/N: BF04430-01



#### **Overview**

This fiber features a 50  $\mu m$  core and a 125  $\mu m$  silica cladding. The fiber coating is a 250  $\mu m$  dual UV acrylate.

 $50~\mu m$  fiber is typically recommended for applications where high bandwidth and operability at 850~or~1300~nm are specified. The fiber can use either LED or laser light sources.

### **Typical Applications**

Industrial Data Communications
Local-Area Networks



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Product Specifications	
Product Description	50/125 Graded-Index OM2 Optical Fiber
Physical Characteristics	
Coating Material	Dual UV Acrylate
Core Diameter	50 ± 2.5 μm
Cladding Diameter	125 ± 1 μm
Coating Diameter	250 ± 10 μm
Core/Clad Offset	≤ 1.5 µm
Core Non-Circularity	≤ 5%
Clad Non-Circularity	≤ 1.0%
Crimp & Cleave Compatible	No
Optical Characteristics	
Туре	Multimode Graded-Index
Numerical Aperture	0.20
Bandwidth @ 1300 nm	≥ 600 MHz-km
Bandwidth @ 850 nm	≥ 600 MHz-km
Attenuation @ 1300 nm	≤ 0.7 dB/km
Attenuation @ 850 nm	≤ 2.4 dB/km
Mechanical and Environmental	
Operating Temperature	-40 to +85 °C
Short-Term Bend Radius	≥ 10 mm
Long-Term Bend Radius	≥ 17 mm
Proof Test Level	100 kpsi (0.689 GPa)
Order by Part Number	BF04430-01
Product Description Code	ACU-ME050C
OPTIONS: Cabling, Connectorization, Metalization	



**NOTES:** OFS polyimide optical fibers are known to operate in environments up to 300 °C. Performance is application dependent. Contact our Technical Sales department

to discuss your specific application requirements.

#### For additional information please contact your sales representative.

You can also visit our website at www.ofsoptics.com or call 1-888-fiberhelp (1-888-342-3743) USA or 1-770-798-5555 outside the USA.

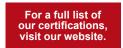




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