

**Item # BF04430-01, 50/125 Acrylate Silica Fibers**

These fibers are available in a selection of core sizes and coating options to meet application needs for bandwidth, high temperature, hermeticity, or other specifications.



[Optical Properties](#) · [Dimensions/Geometric Properties](#) · [Coating/Buffer Descriptions](#) · [Mechanical and Testing Data](#) · [Ordering Information](#) · [Typical Applications](#) · [Options](#)

**Optical Properties**

Type	Multimode Graded-Index
Numerical Aperture	0.20
Bandwidth	@ 1300 nm, ≥ 600 MHz-km @ 850 nm, ≥ 600 MHz-km
Attenuation	@ 1300 nm, ≤ 0.6 dB/km @ 850 nm, ≤ 2.3 dB/km

**Dimensions/Geometric Properties**

Core Diameter	50 ± 2.5 μm
Cladding Diameter	125 ± 2 μm
Coating Diameter	245 ± 10 μm
Core/Clad Offset	≤ 1 μm
Core Non-Circularity	≤ 5%
Clad Non-Circularity	≤ 1.0%
Crimp & Cleave Compatible	No

**Coating/Buffer Descriptions**

Coating Material	Acrylate
Operating Temperature	-60 to +85 °C

**Mechanical and Testing Data**

Short-Term Bend Radius	≥ 10 mm
Long-Term Bend Radius	≥ 17 mm
Proof Test Level	100 kpsi 0.689 GPa

**Ordering Information**

Product Description Code	ACU-ME050C
Order From Location	AVON LOCATION (headquarters) 1.888.438.9936 toll-free in the United States and Canada 1.860.678.0371 for all other locations 55 Darling Drive Avon, CT 06001, USA <a href="mailto:info@SpecialtyPhotonics.com">info@SpecialtyPhotonics.com</a>
Order By Item #	BF04430-01

**Typical Applications**

Industrial Data Communications  
 Local-area Networks

**Options**

Cabling  
 Connectorization  
 Metalization