0.22 NA Standard Glass-Clad, Silica Core Multimode Fiber

Description

Thorlabs' 0.22 NA step-index multimode fibers feature a pure silica core with a fluorine-doped silica cladding, and are available with either high or low hydroxyl ion (OH) concentrations for UV to visible (250 – 1200 nm) or visible to NIR (400 – 2400 nm) applications, respectively.

Specifications

0.22 NA Hard Cladding, Silica Core, Multimode Fiber	
Wavelength Range	400 – 2400 nm(Low OH) 250 – 1200 nm (High OH)[a]
Core / Cladding	Pure Silica / Fluorine-Doped Silica
Coating	Acrylate
Operating Temperature	-40 to 85 °C
Numerical Aperture (NA)	0.22± 0.02
Bandwidth @ 820 nm	15 MHz•km

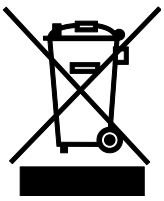
a. Solarization may occur at wavelengths below 300 nm

Visible to IR Transmission (400 - 2400 nm), Low OH

Item #	Core Diameter	Clad Diameter	Coating Diameter	Maximum Attenuation @ 808 nm	Bend Radius Short Term/ Long Term
FG050LGA	50 µm ± 2%	125 ± 1 µm	250 µm ± 4%	8 dB/km	120 x Cladding Diameter / 240 x Cladding Diameter
FG105LCA	105 µm ± 2%	125 ± 1 µm	250 µm ± 4%	8 dB/km	
FG200LEA	200 µm ± 2%	220 ± 2 µm	320 µm ± 5%	8 dB/km	

UV to Visible Transmission (250 - 1200 nm), High OH

Item #	Core Diameter	Clad Diameter	Coating Diameter	Maximum Attenuation @ 808 nm	Bend Radius Short Term/ Long Term
FG050UGA	50 µm ± 2%	125 ± 1 µm	250 µm ± 4%	10 dB/km	120 x Cladding Diameter / 240 x Cladding Diameter
FG105UCA	105 µm ± 2%	125 ± 1 µm	250 µm ± 4%	10 dB/km	
FG200UEA	200 µm ± 2%	220 ± 2 µm	320 µm ± 5%	10 dB/km	



Specifications Cont.

Item #	Stripping Tool
FG050LGA	T06S13
FG050UGA	
FG105UCA	T06S13
FG105LCA	
FG200UEA	T10S13
FG200LEA	

Former Generation Product Line Cross-Reference

Current Generation Item #	Former Generation Item #
FG050UGA	SFS50/125Y
FG050LGA	AFS50/125Y
FG105UCA	SFS105/125Y
FG105LCA	AFS105/125Y
FG200UEA	SFS200/220Y
FG200LEA	AFS200/220Y

Performance Plot