

0.275 NA Graded-Index Multimode Fiber



GIF625

Description

Thorlabs' GIF625 is a graded-index fiber with a standard 62.5 μm core diameter and a 125 μm cladding diameter. It features a numerical aperture of 0.275 and very low attenuation of ≤ 0.6 dB/km at 1300 nm.

Specification

Geometrical & Mechanical Specifications	
Core Diameter	$62.5 \pm 2.5 \mu\text{m}$
Cladding Diameter	$125 \pm 1 \mu\text{m}$
Coating Diameter	$245 \pm 10 \mu\text{m}$
Core-Cladding Concentricity	$\leq 1 \mu\text{m}$
Coating-Cladding Concentricity	$\leq 8 \mu\text{m}$
Coating Non-Circularity	$\leq 5\%$
Core Non-Circularity	$\leq 5\%$
Cladding Non-Circularity	$\leq 1\%$
Operating Temperature	-60 to 85 $^{\circ}\text{C}$
Proof Test Level	100 kpsi

Optical Specifications	
Wavelength Range	800 - 1600 nm
Numerical Aperture	0.275 ± 0.015
Attenuation	≤ 2.9 dB/km @ 850 nm ≤ 0.6 dB/km @ 1300 nm
Bandwidth Range	≥ 200 MHz·km @ 850 nm ≥ 500 MHz·km @ 1300 nm
Zero Dispersion Wavelength	1320 nm (Min) 1365 nm (Max)
Zero Dispersion Slope	≤ 0.11 ps/(nm ² ·km)
Group Refractive Index	1.496 @ 850 nm 1.491 @ 1300 nm

