

Graded index multimode fibers

Cu50-125 | Cu50-200 | AL50-125

Our standard sizes for graded-index fiber are 50/125 and 50/200. These are usually in stock and available for same day shipping in lengths starting at 20 m. Custom graded index configurations, including pure silica or 62.5 µm core, may require 1 km minimum order and 6 weeks to manufacture and ship. Special types of preform, such as fluorine-doped silica, could also add several weeks to delivery.

For more information please contact us at (416) 848 0258 or info@ivgfiber.com

Specifications

	Cu50-125	Cu50-200	AL50-125	Custom options
Availability	from stock	from stock	from stock	custom run
Primary coating	copper alloy	copper alloy	aluminum	aluminum; copper
Additional inner layer	carbon	carbon	—	carbon
Additional outer layer	—	—	—	polyimide; acrylate
Wavelength range	600 – 2000 nm	600 – 2000 nm	600 – 2000 nm	—
Attenuation at 1300 nm	14 dB/km	1.5 dB/km	14 dB/km	—
Numerical aperture	0.22	0.22	0.22	0.22
Index profile	graded index	graded index	graded index	graded index
Preform	Ge-doped	Ge-doped	Ge-doped	pure silica core; high-NA
OH content	low OH	low OH	low OH	
Core diameter	50 µm	50 µm	50 µm	50 µm; 62.5 µm
Cladding diameter	125 ± 1 µm	200 ± 2 µm	125 ± 1 µm	125 µm; 200 µm
Coating diameter	165 ± 10 µm	260 ± 10 µm	165 ± 10 µm	from 20 to 50 µm thick
Core-clad concentricity	< 5 µm	< 5 µm	< 5 µm	—
Cladding offset	< 5 µm	< 5 µm	< 5 µm	—
Short-term bending radius	> 10 mm	> 15 mm	> 10 mm	—
Long-term bending radius	> 25 mm	> 40 mm	> 25 mm	—
Proof test	100 kpsi	100 kpsi	100 kpsi	—
Continuous length	up to 3000 m	up to 2000 m	up to 3000 m	—
Short-term temperature range	< 600° C	< 600° C	< 400° C	—
Long-term temperature range	< 450° C	< 450° C	< 400° C	—

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