

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.

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	2.5 dB/km	14 dB/km	—
Numerical aperture	0.22	0.22	0.22	0.13–0.37
Index profile	graded index	graded index	graded index	graded index; step-index
Core/clad composition	Ge-doped/pure	Ge-doped/pure	Ge-doped/pure	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 \pm 1 μm	200 \pm 2 μm	125 \pm 1 μm	125 μm ; 200 μm
Coating diameter	165 \pm 10 μm	260 \pm 10 μm	165 \pm 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 (< 60 s)	< 600°C	< 600°C	< 400°C	—
Long-term temperature (> 60 s)	< 450°C	< 450°C	< 400°C	—

