

Single-mode fibers

Cu800 | Cu1300 | Cu1300-200 | AL1300

Copper and aluminum-coated single-mode fibers for near-IR are usually in stock and available for same day shipping in lengths starting at 20 m. Custom single-mode configurations, including pure silica core or custom wavelength, 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

	Cu800	Cu1300	Cu1300-200	AL1300	Custom options
Availability	from stock	from stock	from stock	from stock	custom run
Primary coating	copper alloy	copper alloy	copper alloy	aluminum	aluminum; copper
Additional inner layer	—	carbon	—	—	carbon
Additional outer layer	—	—	—	—	polyimide; acrylate
Wavelength range	800 – 900 nm	1300–1600 nm	1300–1600 nm	1300–1600 nm	400 – 2000 nm
Cut-off wavelength	< 770 nm	<1250 nm	<1250 nm	<1250 nm	—
Attenuation at 800/1300 nm	10.5 dB/km	9.5 dB/km	1.0 dB/km	9.5 dB/km	—
Numerical aperture	0.13	0.13	0.13	0.13	0.13 – 0.26
Preform	Ge-doped	Ge-doped	Ge-doped	Ge-doped	pure silica core; high-NA
Mode field diameter	6 ± 0.5 μm	9 ± 0.5 μm	9 ± 0.5 μm	9 ± 0.5 μm	—
Cladding diameter	125 ± 1 μm	125 ± 1 μm	200 ± 2 μm	125 ± 1 μm	125 μm; 200 μm
Coating diameter	165 ± 10 μm	165 ± 10 μm	260 ± 10 μm	165 ± 10 μm	from 20 to 50 μm thick
Core-clad concentricity	< 0.5 μm	< 0.5 μm	< 0.5 μm	< 0.5 μm	—
Cladding offset	< 5 μm	< 5 μm	< 5 μm	< 5 μm	—
Short-term bending radius	> 10 mm	> 10 mm	> 15 mm	> 10 mm	—
Long-term bending radius	> 25 mm	> 25 mm	> 40 mm	> 25 mm	—
Proof test	100 kpsi	100 kpsi	100 kpsi	100 kpsi	—
Continuous length	up to 3000 m	up to 3000 m	up to 2000 m	up to 3000 m	—
Short-term temperature range	< 600°C	< 600°C	< 600°C	< 400°C	—
Long-term temperature range	< 450°C	< 450°C	< 450°C	< 400°C	—

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