

Data-Glass® multimode optical fiber MMF 62.5/125 is best suited for Local Area Networks (LAN) at wavelengths 850 and 1300 nm. Applications include Ethernet, FDDI, ATM and FibreChannel. Data-Glass® MMF 62.5/125 complies with ITU recommendation G.651 and IEC 60793-2-10 type A1b specifications.



Data-Glass® optical fibers has been producing optical fibers since 1988. Our advantages are commitment to produce quality optical fibers, trained personnel and modern state_of_the_art equipment, which assures an unsurpassed competence to our customers.

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Optical characteristics of Data-Glass® MMF 62.5/125

Category		I	II	III		
Attenuation	850 nm	≤ 2.8	≤ 3.0	≤ 3.2	dB/km	
	1300 nm	≤ 0.6	≤ 0.7	≤ 1.0	dB/km	
	1383 nm			≤ 2.0	dB/km	
Attenuation at waterpeak				≤ 2.0	dB/km	
Attenuation discontinuities (OTDR 1300 nm)				≤ 0.05	dB	
Macrobending loss						
Bending induced attenuation (100 turns)				≤ 0.5	dB	
Bandwidth options (Category)	850 nm	300	250	200	160	MHz-km
	1300 nm	1000	800	500	500	MHz-km
(***)Overfilled launch Led sources						
Bandwidth options available upon request.						
Numerical aperture			n.a.		0.275 ± 0.015	-

Geometrical characteristics of Data-Glass® MMF 62.5/125

Core diameter	62.5 ± 2.5	μm
Core non-circularity	≤ 5	%
Core /clad concentricity error	≤ 1,5	μm
Cladding diameter	125 ± 2.0	μm
Cladding non-circularity	≤ 1.0	%
Coating diameter (without ink)	245 ± 10	μm
Coating/Clad concentricity error	≤ 10	μm
Standard lengths:	1.1, 1.4, 1.7, 2.2, 3.3, 4.4, 6.6, 8.8	km

Mechanical characteristics of Data-Glass® MMF 62.5/125

Proof test			100	kp
			8.8	N
Dynamic tensile strenght	Unaged fiber	Median	≥ 550	kp
		Weibull slope	≥ 30	
	Aged fiber	Median	≥ 440	kp
		Weibull slope	≥ 25	
Dynamic fatigue	Stress corrosion parameter		≥ 20	
Coating strip force (typical)			1.9	N
Operating temperature range			-60...+85	°C

Environmental characteristics of Data-Glass® MMF 62.5/125

Temperature induced attenuation (-60.. +85 °C)	850/1300 nm	≤ 0.2	dB/km
Temperature / humidity cycle induced attenuation (-10...+85 °C, 4...85% R.H.)	850/1300 nm	≤ 0.2	dB/km
Heat ageing after 30 days at +85°C/ 85% R.H	850/1300 nm	≤ 0.2	dB/km
Water immersion (Fiber soaked in water +23°C for 30 days	850/1300 nm	≤ 0.2	dB/km