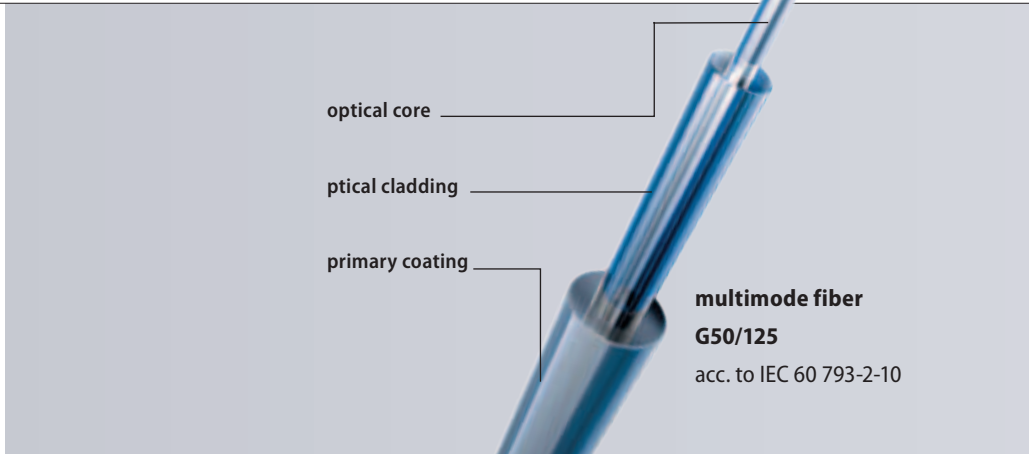


Multimode fiber G50/125



Radiation resistance

All fiber types are also available in a radiation-resistant version or with approval according to MIL-PRF-49291C (6B MMF 62.5/125; 1B MMF 50/125; 7C SMF 9/125).

OM3 and OM4 fibers are available in bend insensitive quality on request.

Multimode fiber G50/125 acc. to IEC 60 793-2-10

Geometric/mechanical properties

Core diameter (µm)	50 ± 2.5	Cladding non-circularity (%)	< 1
Cladding diameter (µm)	125 ± 1	Core/cladding concentricity error (µm)	< 1.5
Coating diameter (µm)	245 ± 10	Eccentricity of coating (µm)	< 10
Core non-circularity (%)	< 5	Screen test	1 % expansion for 1 s (≅ 100 kpsi)

Transmission properties	Conventional fibers										Bend insensitive fibers			
	Fiber type F		Fiber type G		Fiber type H		Fiber type I		Fiber type J		Fiber type V		Fiber type W	
	(OM2) IEC 60793-2-10 A1a.1		(OM2+) IEC 60793-2-10 A1a.1		(OM2++) IEC 60793-2-10 A1a.1		(OM3) IEC 60793-2-10 A1a.2		(OM4) IEC 60793-2-10 A1a.3		(OM3BI) IEC 60793-2-10 A1a.2		(OM4BI) IEC 60793-2-10 A1a.3	
Wavelength (nm)	850	1300	850	1300	850	1300	850	1300	850	1300	850	1300	850	1300
Attenuation max. (dB/km)	3.0	1.0	2.7	0.8	2.7	0.7	2.5	0.7	2.5	0.7	2.5	0.7	2.5	0.7
Bandwidth min. OFL (MHz · km)	500	500	500	1000	600	1200	1500	500	3500	500	1500	500	3500	500
Bandwidth min. EMB (MHz · km)							2000		4700		2000		4700	
Effective group of refraction	1.483	1.478	1.483	1.478	1.483	1.478	1.483	1.478	1.483	1.475	1.483	1.478	1.483	1.478
Numerical aperture	0.200 ± 0.020		0.200 ± 0.015		0.200 ± 0.015		0.200 ± 0.015		0.200 ± 0.015		0.200 ± 0.015		0.200 ± 0.015	

Applications and link lengths

	G50/125						
	F	G	H	I	J	V	W
Type acc. to ISO 11801: 09/2002	OM2	OM2+	OM2++	OM3	OM4	OM3BI	OM4BI
Gigabit Ethernet 1000BASE-SX (850 nm)	500 m	525 m	750 m	1000 m	1040 m	1000 m	1040 m
Gigabit Ethernet 1000BASE-LX (1300 nm)	550 m	1000 m	2000 m	550 m	600 m	550 m	600 m
10 Gigabit Ethernet 10GBASE-SX (850 nm)				300 m*	550 m	300 m	550 m
10 Gigabit Ethernet 10GBASE-LX4 (1310 nm WDM)				300 m	300 m	300 m	300 m

* 10 GE Link length acc. to ISO 11801.2