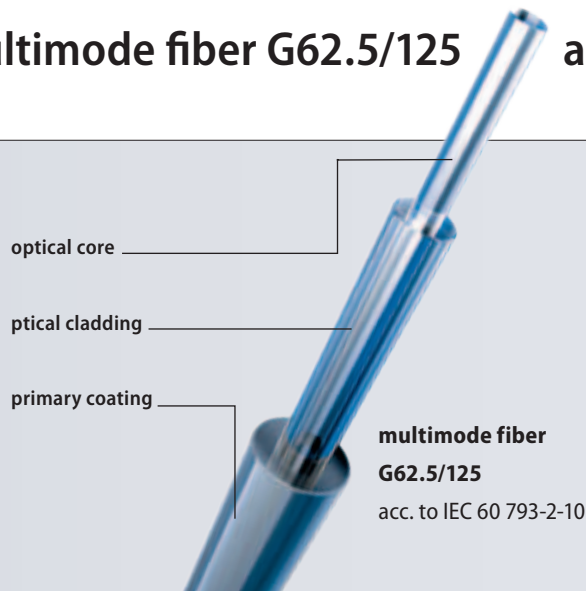


# Multimode fiber G62.5/125 and G100/140



## 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).

### Multimode fiber G62.5/125 acc. to IEC 60 793-2-10

#### Geometric/mechanical properties

Core diameter (µm)	62.5 ± 3
Cladding diameter (µm)	125 ± 2
Coating diameter (µm)	245 ± 10
Core non-circularity (%)	< 5
Cladding non-circularity (%)	< 1
Core/cladding concentricity error (µm)	< 1.5
Eccentricity of coating (µm)	< 10
Screen test	1 % expansion for 1 s (≙ 100 kpsi)

### Multimode fiber G100/140 acc. to IEC 60 793-2-10

#### Geometric/mechanical properties, fiber type Q

Core diameter (µm)	100 ± 4
Cladding diameter (µm)	140 ± 3
Coating diameter (µm)	250 ± 15
Core non-circularity (%)	< 6
Cladding non-circularity (%)	< 2
Core/cladding concentricity error (µm)	< 3.0
Eccentricity of coating (µm)	< 12.5
Screen test	1 % expansion for 1 s (≙ 100 kpsi)

Transmission properties	Fiber type L (OM1) IEC 60793-2-10 A1b		Fiber type (OM1+) IEC 60793-2-10 A1b		Fiber type Q IEC 60793-2-10 A1d	
	850	1300	850	1300	850	1300
Wavelength (nm)	850	1300	850	1300	850	1300
Attenuation max. (dB/km)	3.2	0.9	3.0	0.8	5.0	2.0
Bandwidth min. OFL (MHz · km)	200	500	300	800	100	100
Effective group of refraction	1.497	1.493	1.497	1.493	1.497	1.492
Numerical aperture	0.275 ± 0.015		0.275 ± 0.015		0.290 ± 0.020	

### Applications and link lengths

	G62.5/125	
	L	M
Type acc. to ISO 11801: 09/2002	OM1	OM1+
Gigabit Ethernet 1000BASE-SX (850 nm)	350 m	500 m
Gigabit Ethernet 1000BASE-LX (1300 nm)	550 m	1000 m
10 Gigabit Ethernet 10GBASE-SX (850 nm)		
10 Gigabit Ethernet 10GBASE-LX4 (1310 nm WDM)		

\* 10 GE Link length acc. to ISO 11801.2