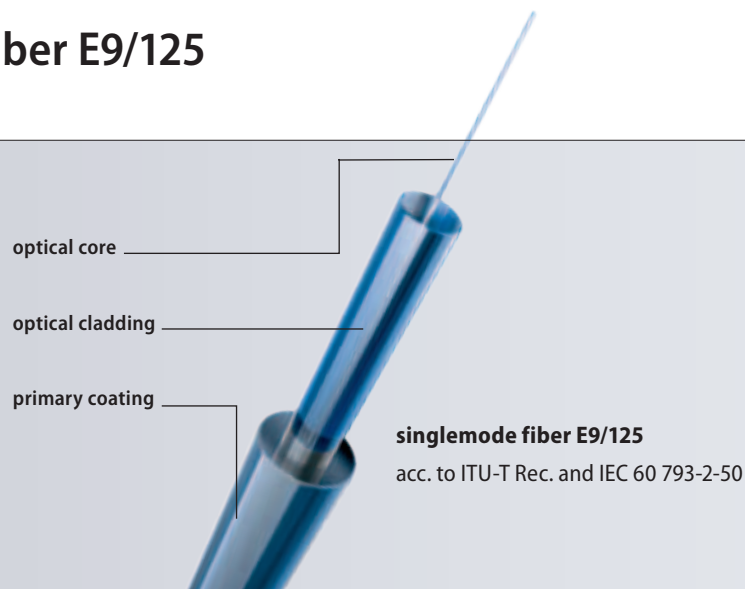


Singlemode fiber E9/125



Singlemode fiber E9/125

acc. to ITU-T Rec. G.652.D, ITU-T Rec. G.657.A1, ITU-T Rec. G.657.A2/B2 G.657.A2/B2, ITU-T Rec. G.657.B3 and IEC 60 793-2-50
other fiber types e.g. ITU-T G.655 or ITU-T G.657 on request

Geometric/mechanical properties

Cladding diameter (µm)	125 ± 0.7	Mode field/cladding concentricity error (µm)	< 0.5
Coating diameter (µm)	245 ± 10	Eccentricity of coating (µm)	< 12
Cladding non-circularity (%)	< 1	Screen test	1 % expansion for 1 s (±100 kpsi)

Transmission properties	Fiber type A (tight buffered fiber) resp. B (loose tube)		Fiber type E		Fiber type U		Fiber type K	
	acc. to ITU-T G.652.D and ISO 11801 Type OS 2 IEC 60793-2-50 B1.3		acc. to ITU-T G.657.A1 IEC 60793-2-50 B6_a1		acc. to ITU-T G.657.A2/B2 IEC 60793-2-50 B6_a2		acc. to ITU-T G.657.B3 IEC 60793-2-50 B6_b3	
Wavelength (nm)	1310	1550	1310	1550	1310	1550	1310	1550
Attenuation max. (dB/km)			0.36	0.22	0.36	0.22	0.36	0.22
Attenuation tight buffered fibers (fiber type A) max. (dB/km)	0.38	0.28						
Attenuation multi fiber loose tubes (fiber type B) max. (dB/km)	0.36	0.22						
Dispersion coefficient max. (ps/nm · km)	3.5	18	3.5	18	3.5	18	3.5	18
Zero dispersion wavelength (nm)	1302 – 1322		1302 – 1322		1304 – 1324		1304 – 1324	
Dispersion slope (ps/nm ² · km)	≤ 0.090		≤ 0.092		≤ 0.092		≤ 0.092	
Cut-Off-Wavelength (cabled) (nm)	≤ 1260		≤ 1260		≤ 1260		≤ 1260	
Polarisation mode dispersion (ps/√km)	≤ 0.2		≤ 0.2		≤ 0.2		≤ 0.2	
Effective group of refraction	1.4695	1.4701	1.4695	1.4701	1.4670	1.4677	1.4670	1.4680
Mode field diameter at 1310 µm (µm)	9.2 ± 0.4		8.9 ± 0.4		8.6 ± 0.4		8.6 ± 0.4	