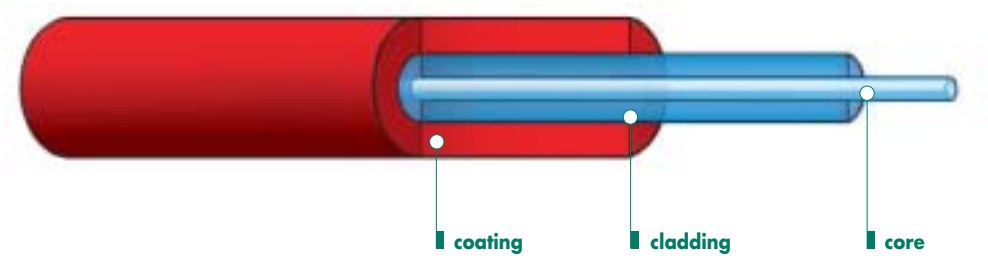
Dätwyler

Singlemode Fibre (SMF) Enhanced

E9/125/250 according ITU-T Rec. G. 652 C/
IEC 60793-2-50 Type B1.3



Product information

Application

Remote connections over long transmission distances and high transmission rates at the 1310nm wavelength.
Low waterpeak enables transmission over the E-Band (1383-1480nm) with CWDM.
The geometry, optical and mechanical specifications correspond with all relevant national, european andinternational standards.

Transmission characteristics

wavelength	[nm]	1310	1383	1550	1625
max. attenuation (cabled)	[dB/km]	0.36	0.36	0.25	0.30
max. chromatic dispersion	[ps/nm x km]	3.5		18	
nom. zero dispersion wavelength	[nm]	1313			
mode field (Petermann II)	[µm]	9.2 +/- 0.4		10.4 +/- 1.0	
max. cable cut off wavelength λ_{ccf}	[nm]	1260		1260	
max. polarisation modes dispersion coefficient	[ps/ km]	0.5	0.5	0.5	0.5
max. attenuation nonlinearity	[dB]	0.05	0.05	0.05	
refractive index		1.4677		1.4682	

Geometry and mechanical characteristics

numerical aperture		0.14	0.14
core ∅	[µm]	8.2	8.2
cladding ∅	[µm]	125 +/- 0.7	125 +/- 0.7
max. core/cladding concentricity error	[µm]	0.5	0.5
max. coating non circularity	[%]	1.0	1.0
coating ∅	[µm]	245 +/- 5.0	245 +/- 5.0
max. cladding/coating concentricity error	[µm]	12	12
max. coating non circularity	[%]	6	6
min. fibre bending radius	[m]	4.0	4.0
nom. operating temperature range	[°C]	-60 bis +85	-60 bis +85
test load	[kpsi]	100	100

Technical changes reserved.