
SPECIFICATION FOR SINGLEMODE FIBER G.652D

Primary coating of acrylate.

I. FIBER GEOMETRY

Coating diameter, coloured		250 ± 15 μm
Cladding diameter		125 ± 0.7 μm
Cladding non-circularity		≤1 %
Concentricity error, modefield	max	0.5 μm

II. MECHANICAL CHARACTERISTICS

Minimum bending radius		30 mm
Proof-test level		1 %
Proof-test time		1 s
Fiber curl		>4 m

III. TRANSMISSION DATA

Attenuation 1310 nm	avg.	0.36 dB/km
	max	0.38 dB/km
Attenuation 1383 nm*	avg.	0.36 dB/km
	max	0.38 dB/km
Attenuation 1550 nm	avg.	0.21 dB/km
	max	0.25 dB/km
Attenuation 1625 nm	avg.	0.26 dB/km
	max	0.30 dB/km
Attenuation discontinuities	max	0.10 dB
Attenuation linearity	max	0.10 dB/km
Cut-off wavelength cable		≤1260 nm
Modefield diameter at 1310 nm		9.2 ± 0.4 μm
Chromatic dispersion zero crossing		1300 - 1324 nm
Chromatic dispersion slope		≤0.092 ps/nm ² /km
Chromatic dispersion at 1550 nm		≤18.0 ps/nm/km
Chromatic dispersion at 1285 - 1340 nm		≤3.5 ps/nm/km
PMD at 1550 nm		≤0.2 ps/√km

IV. REFERENCES

European standard: EN 188000
 Generic specification: Optical Fibres ITU-T G.652 D
 International standard: IEC 60793-1 and IEC 60793-2

* Aged in 1% hydrogen gas and 1 atm, according to IEC 60793-2.