
SPECIFICATION FOR SINGLEMODE FIBER G.652D

Primary coating of acrylate.

I. FIBER GEOMETRY

Coating diameter, coloured		255 ± 10	µm
Cladding diameter		125 ± 1	µm
Cladding non-circularity		≤ 1	%
Concentricity error, modefield	max.	0.6	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.	0.37	dB/km
	max	0.40	dB/km
Attenuation 1383 nm*	avg.	0.37	dB/km
	max	0.40	dB/km
Attenuation 1550 nm	avg.	0.22	dB/km
	max	0.28	dB/km
Attenuation 1625 nm	avg.	0.30	dB/km
	max	0.40	dB/km
Cut-off wavelength cable		≤ 1260	nm
Modefield diameter		9.3 ± 0.5	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 - 1330 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.