

SPECIFICATION FOR 50/125 MULTIMODE OPTICAL FIBRE: ISO/IEC 11801, IEC 60793-2-10
Type A1a.1 and ITU-T RECOMMENDATION G.651.1 SPECIFICATION

OPTICAL PROPERTIES

Attenuation	@ 850 nm @ 1300 nm	≤ 2.8 dB/km ≤ 0.8 dB/km
Overfilled Modal Bandwidth	@ 850 nm @ 1300 nm	≥ 500 MHz.km ≥ 800 MHz.km
Numerical Aperture		0.200 ± 0.015
Attenuation Uniformity	Point or Step Defects Extended variations	≤ 0.2 dB ≤ 0.2 dB
Group Index of Refraction	(Typical) 850 nm 1300 nm	1.482 1.477

MACROBENDING PROPERTIES

100 turns around 75mm diameter	@850 nm	≤0.5 dB/km
100 turns around 75mm diameter	@1300 nm	≤0.5 dB/km

GEOMETRICAL PROPERTIES

Core		50 ± 2 µm
Core Non-Circularity		≤ 5.0 %
Core / Cladding Concentricity Error		≤ 1 µm
Cladding Diameter		125.0 ± 1.0 µm
Cladding Non-Circularity		≤ 0.7 %
Coating Diameter		245 ± 10 µm
Coating Concentricity Error		≤ 12.5 µm
Coating Non-Circularity		≤ 6 %

MECHANICAL PROPERTIES

Proof Test Level		≥ 0.69 GPa / ≥ 1.0 %
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