

Specification for multimode fibre 50µm OM4

Primary coating of acrylate

I. FIBRE GEOMETRY

Coating diameter, coloured	250 ± 15	µm
Cladding diameter	$125 \pm 1,0$	µm
Core diameter	$50 \pm 2,5$	µm
Cladding non-circularity	$\leq 1,0$	%
Core non-circularity	$\leq 5,0$	%
Core concentricity error	$\leq 1,5$	µm

II. MECHANICAL CHARACTERISTICS

Proof-test level	≥ 1	%
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III. TRANSMISSION DATA

Attenuation at 850 nm	$\leq 2,5$	dB/km
Attenuation at 1300 nm	$\leq 0,8$	dB/km
Bandwidth 850 nm - OFL	≥ 3500	MHz x km
Bandwidth 1300 nm - OFL	≥ 500	MHz x km
Numerical aperture	$0,200 \pm 0,015$	

IV. REFERENCES

European standard: EN 50173-1

International standard: IEC 60793-2-10 Sub-category A1-OM4