

OPTICAL FIBER. MULTI MODE. 62,5/125 OM1



STANDARDS

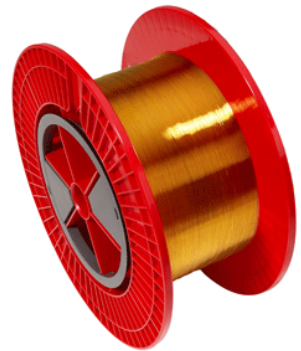
IEC 60793-2-10 Cat. A.1b.

TIA-492 AAAA-A

ISO/IEC 11801: Type OM1

DESCRIPTION AND APPLICATION

- Graded Index Multimode Fibre.
- For use in communications at 850 nm and 1300 nm.
- Dual-layered acrylate coating that provides protection against water, temperature and humidity extremes, yet still strips cleanly and easily.
- Meets the mechanical requirements of Telcordia Generic Requirements documents GR-20-CORE and GR-409-CORE.



All drawings, designs, specifications and particulars of weights, dimensions, etc. in this documentation are only indicative and must not be considered contractual.

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OPTICAL PROPERTIES

PARAMETER	VALUE	UNITS	TEST METHOD
Typ./Max. Individual fibre Attenuation at 850 nm (*)	3,1 / 3,2	dB/km	UNE-EN 188000-303
Typ./Max. Individual fibre Attenuation at 1300 nm (*)	0,9 / 1,0	dB/km	
Att. Uniformity (Point discontinuities at 850 or 1300 nm)	< 0,10	dB	
Attenuation Difference (1380nm – 1300nm)	≤ 1	dB/km	IEC 60793-1-40
Overfilled Bandwidth at 850 nm	≥ 200	MHz · km	TIA / EIA – 455-204 (FOTP-204)
Overfilled Bandwidth at 1300 nm	≥ 500	MHz · km	
Numerical Aperture	0,275 ± 0,015		TIA / EIA – 455-177
Zero Dispersion Wavelength	1320 < λ_0 < 1365	nm	UNE-EN 188000-309 IEC 60793-1-42
Dispersion Slope at λ_0 (S_0) (1320 ≤ λ_0 ≤ 1348 nm)	≤ 0,110	ps/nm ² ·km	

(*) This parameter is subject to change once the fiber is cabled.

MACROBEND ATTENUATION

PARAMETER	VALUE	UNITS	TEST METHOD
100 turns on a 75,0 mm. mandrel at 850nm (*)	≤ 0,5	dB	TIA / EIA – 455-62
100 turns on a 75,0 mm. mandrel at 1300nm (*)	≤ 0,5	dB	

(*) This parameter is subject to change once the fiber is cabled.

GEOMETRICAL PROPERTIES

PARAMETER	VALUE	UNITS	TEST METHOD
Core Diameter	62,5 ± 2,5	μm	IEC 60793-1-20
Core Non-circularity	≤ 5	%	
Cladding Diameter	125 ± 1	μm	
Cladding Non-Circularity	< 1	%	
Core-Cladding Concentricity Error (offset)	< 1	μm	
Coating Diameter (uncoloured)	245 ± 10	μm	IEC 60793-1-21
Coating-Cladding Concentricity Error (offset)	≤ 8	μm	

OTHER PROPERTIES

PARAMETER	VALUE	UNITS	TEST METHOD
Tensile Strength ("Proof test")	≥1% (100kpsi / 0,7GPa)	%	IEC 60793-1-30
Effective group index of refraction at 850 nm	1,496		EIA/TIA-455-44
Effective group index of refraction at 1300 nm	1,491		
Coating strippability (Range / Typical)	2,2 - 4,4 / 3,0	N	IEC 60793-1-32

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