

### MULTIMODE OPTICAL FIBRE 50/125



Graded-Index multimode optical fibres 50/125 micron. The fibres are designed for use at 850, 953 and 1300 nm. These fibres are suitable for use in premises wiring applications, like Local Area Networks (LAN) with video, data and voice using LED, VCSEL or Laser Fabry Perot sources.

The fibre complies with or exceeds ITU-T Recommendation G.651, IEC 60793-2-10 A1a.1, A1a.2, A1a.3, A1a.4 Optical Fibre Specification, ISO/IEC 11801 OM2 / OM3 / OM4 / OM5 specification, TIA/EIA-492AAAB, TIA/EIA-492AAAC, TIA/EIA-492AAAD, TIA/EIA-492AAAE, Telcordia GR-20-CORE, GR-409-CORE.

GEOMETRICAL AND MECHANICAL CHARACTERISTICS	VALUES
Core diameter	50 ± 2.5 µm
Core non-circularity	≤ 5 %
Core / Cladding concentricity error	≤ 1.5 µm
Cladding diameter	125 ± 1.0 µm
Cladding non-circularity	≤ 1.0 %
Primary coating diameter	245 ± 10 µm
Coating concentricity error	≤ 12.0 µm
Proof Test	≥ 8.8 N / ≥ 1 % / ≥ 100 Kpsi

Geometrical and mechanical characteristics according to IEC 60793-2-10.

OPTICAL CHARACTERISTICS		OM2	OM3	OM4	OM5
Attenuation Coefficient (dB/Km)	850 nm	≤ 2.4	≤ 2.4	≤ 2.4	≤ 2.4
	953 nm	-	-	-	≤ 1.8
	1300 nm	≤ 0.7	≤ 0.7	≤ 0.7	≤ 0.6
Bandwidth (MHz.Km)	850 nm	≥ 500	≥ 1500	≥ 3500	≥ 3500
	953 nm	-	-	-	≥ 1850
	1300 nm	≥ 500	≥ 500	≥ 500	≥ 500
Link Distance (m)	1000Base-SX	550	900	1100	1000
	1000Base-LX	550	550	550	600
	10GBASE-SX	82	300	550	400
	40GBASE-SR4	-	-	-	150
	100GBASE-SR1	-	-	-	100
Numerical Aperture		0.200 ± 0.015			
Group Index of Refraction	850 nm	1.482			
	1300 nm	1.477			

Optical properties according to IEC 60793-2-10, ISO/IEC 11801, EN 50173, TIA/EIA-492AAAB, TIA/EIA-492AAAC-A, TIA/EIA-492AAAD, Telcordia GR-20-CORE, GR-409-CORE.

Optical specifications for uncabled fibre.