



Graded-Index multimode optical fibres 50/125 micron. The fibres are designed for use at 850 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 Optical Fiber Specification, ISO/IEC 11801 OM1 / OM2 / OM3 / OM4 specification, TIA/EIA-492AAAB, TIA/EIA-492AAAC, TIA/EIA-492AAD, Telcordia GR-20-CORE, GR-409-CORE.

GEOMETRICAL AND MECHANICAL CHARACTERISTICS	VALUES
Core diameter	50 ± 2.0 µm
Core non-circularity	≤ 5 %
Core / Cladding concentricity error	≤ 1 µm
Cladding diameter	125 ± 1.0 µm
Cladding non-circularity	≤ 0.7 %
Primary coating diameter	242 ± 5 µm
Coating non-circularity	≤ 5 %
Coating concentricity error	≤ 12.5 µm
Proof Test	≥ 8.8 N / ≥ 1 % / ≥ 100 Kpsi

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

OPTICAL CHARACTERISTICS		OM1	OM2	OM2 XL	OM3 SL	OM3	OM4	Giga
Attenuation Coefficient (dB/Km)	850 nm	≤ 2.5	≤ 2.5	≤ 2.5	≤ 2.5	≤ 2.5	≤ 2.5	≤ 2.5
	1300 nm	≤ 0.7	≤ 0.7	≤ 0.7	≤ 0.7	≤ 0.7	≤ 0.7	≤ 0.7
Bandwidth (MHz.Km)	850 nm	≥ 200	≥ 500	≥ 600	≥ 700	≥ 1500	≥ 3500	≥ 600
	1300 nm	≥ 500	≥ 500	≥ 1200	≥ 500	≥ 500	≥ 500	≥ 1200
Link Distance (m)	1000Base-SX	275	550	550	800	900	1100	750
	1000Base-LX	550	550	550	550	550	550	2000
	10GBASE-SX	33	82	82	150	300	550	110
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-492AAD, Telcordia GR-20-CORE, GR-409-CORE.

Optical specifications for uncabled fibre