



Alcatel graded index Multimode fibers operate in both the 850nm and 1300nm regions and are ideally suited for use in Local Area Networks (LANs) for data, voice, and video transmissions.

The 62.5/125 Multimode fiber is fully compatible with all of the major industry network standards available on the market today, including FDDI, Ethernet, Fast Ethernet, ATM, and Token Ring. The 62.5/125 Multimode fiber is also guaranteed for use in a variety of cables, including loose tube and tight buffer cable.

All of Alcatel's Multimode fibers are further enhanced with Alcatel's unique processes, including the Alcatel Fiber Coating (AFC™) process. The AFC™ coating ensures fiber durability and robustness even in harsh environments. Additionally, Alcatel's Multimode fibers benefit from their Furnace Chemical Vapor Deposition (FCVD) process. The FCVD process ensures superior geometry and uniformity, as well as enhanced purity.



Alcatel's 62.5/125 Multimode

graded index fiber is one of Alcatel's preeminent fibers for Multimode applications. The fibers have been designed to satisfy the increasing pressure on service providers to support the exponential growth in high-speed transmission over shorter distances, including corporate and campus environments.

As one of the world's largest manufacturers of communications products, Alcatel has the expertise, technology and manufacturing resources to provide a total end-to-end solution to support your fiber, cable, and systems requirements.

FEATURES	BENEFITS
▶ Operates at both 850nm and 1300nm wavelengths	▶ Enhanced transmission capacity
▶ Optimized to take advantage of lower-cost transceivers (LEDs)	▶ Significant cost savings
▶ Compatible with all major network standards, including FDDI, Ethernet, Fast Ethernet, Token Ring and ATM	▶ Operational flexibility
▶ Utilizes Alcatel's proprietary Furnace Chemical Vapor Deposition (FCVD) process	▶ Ensures fiber with superior geometry and uniformity, as well as enhanced purity
▶ Utilizes Alcatel's unique AFC™ fiber coating, specially formulated for Multimode	▶ Provides superior durability and robustness even in the harshest conditions, resulting in lower maintenance and replacement costs

KEY INDUSTRY LEADING MILESTONES

- ▶ **1999-** Introduced Alcatel's AFC™ coating specifically designed to provide superior aging performance for Multimode fibers and better stability during the coating process
- ▶ **2000-** Introduced Alcatel's proprietary Furnace Chemical Vapor Deposition (FCVD) fiber production process to ensure the highest quality fiber

Alcatel 6932

62.5/125 Multimode Fiber



OPTICAL SPECIFICATIONS	
Typical Spectral Attenuation and Bandwidth (modal dispersion)	
Attenuation 850/1300nm	Bandwidth 850/1300nm
2.8/0.8 dB/km	250/800 MHz.km
2.9/0.8 dB/km	200/500 MHz.km
3.5/1.5 dB/km	160/200 MHz.km
Point Discontinuity	
@850nm/1300nm	≤ 0.2 dB
Bending Sensitivity Attenuation	
The maximum attenuation with bending does not exceed the following values @ 850nm and 1300nm: 100 turns on 75mm diameter ≤ 0.5 dB	
Chromatic Dispersion	
Zero Dispersion Wavelength (λ_0)	1320 to 1365nm
Zero Dispersion Slope (S ₀):	
for 1320nm < λ_0 < 1348nm is typically	≤ 0.11 ps/nm ² ·km
for 1348nm < λ_0 < 1365nm is typically	≤ 0.001 * (1458- λ_0) ps/nm ² ·km
Numerical Aperture (NA)	
Numerical Aperture	0.275 ± 0.015
Effective Group Index of Refraction	
@ 850nm	1.497
@ 1300nm	1.492

Fibers with different characteristics and lengths available upon request

References for products: IEC pub 60793/2 EN 188000-206

Alcatel reserves the right to change specifications without prior notice.

GENERAL SPECIFICATIONS	
Core Diameter	62.5 ± 3µm
Core Non-Circularity	≤ 6%
Cladding Diameter	125 ± 2µm
Cladding Non-Circularity	≤ 2%
Core/Cladding Concentricity Error	≤ 3µm
Coating Diameter	245 ± 15µm
Coating Non-Circularity	≤ 6%
Coating/Cladding Concentricity Error	≤ 12.5µm

ENVIRONMENTAL SPECIFICATIONS	
Induced Attenuation Change @ 850 & 1300nm	
Operating Temperature -60 to +85°C	≤ 0.2 dB/km
Temperature/Humidity Cycling -10/+70°C RH 95%	≤ 0.2 dB/km

MECHANICAL SPECIFICATIONS	
Proof-test	
The entire length is subjected to a tensile proof-test > 100 kpsi.	
Other Values	
Stress corrosion factor (n)	≥ 20
Strippability (50-500mm/minute)	> 1N
Delivery Lengths	
1.1, 2.2, 3.3, 4.4, 5.5, 6.6, 7.7, 8.8 km	

References for measurements

EC Pub 60793 1-1, 1-2, 1-3, 1-4, 1-B6

EIA-TIA 455-31C/46A/58A/59/168A/173/176/177A/204

For additional information visit Alcatel online or call your nearest Optical Fiber Sales Representative

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