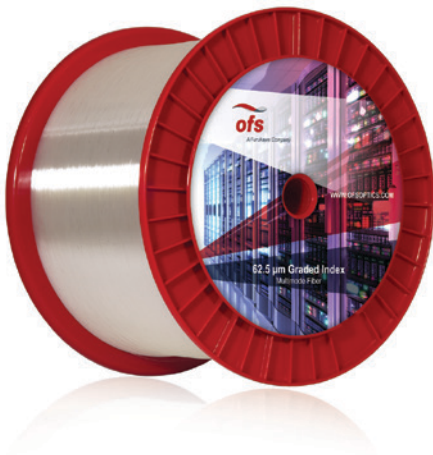




A Furukawa Company

62.5 μm Graded-Index Multimode Optical Fiber

The Reliable Solution for Low-loss, High Bandwidth Applications



Product Description

In data communications where high reliability, high data capacity, and ease of connectivity are required, OFS multimode optical fibers have become the medium of choice. Among U.S. manufacturers, OFS offers the widest range of graded-index multimode fibers as standard selections.

Consistent product quality, on-time delivery, responsive service, and excellent technical support are just a few of the reasons why OFS is one of the world's leading producers of optical fiber.

OFS' graded-index multimode fibers are 100% quality tested in accordance with the Telecommunications Industry Association (TIA) Fiber Optic Test Procedures (FOTP) and other industry standards.

In addition, OFS optical fiber meets the optical and mechanical requirements of Telcordia Generic Requirements documents GR-20-CORE and GR-409-CORE.

Manufacturing and Quality Control

Robust and easy to connectorize, our Graded-Index 62.5 μm Fiber promotes ease of installation even under the most stringent conditions.

OFS protects the fibers with our Flex-10 Coating, a dual-layered acrylate coating system that provides the industry's best protection against water, temperature and humidity extremes, yet still strips cleanly and easily.

Our multimode optical fiber is manufactured at OFS' Multimode Center of Excellence in Sturbridge, Massachusetts, using the company's advanced Modified Chemical Vapor Deposition (MCVD) technology. Using this process, OFS produces a range of multimode fiber products that offer excellent performance for all transmission protocols. The MCVD method enables OFS to precisely control each fiber's index of refraction. Under the restricted launch conditions used in Gigabit Ethernet, this maximizes fiber bandwidth performance at 1 Gb/s speeds.

Like all of OFS's graded-index multimode fibers, OFS Graded-Index 62.5 μm Fiber is tested and proven to exceed the Telecommunications Industry Association (TIA) Fiber Optic Test Procedures (FOTP) and other industry standards.

Flex-10™ Coating

OFS multimode fibers are made with a world-class draw process and our enhanced Flex-10 coating, designed to minimize induced attenuation that can occur in tight-buffer cable. Easy to strip and install, the coating offers outstanding performance in attenuation-sensitive 1 Gb/s and 10 Gb/s systems.

For additional information please contact your sales representative.

You can also visit our website at www.ofsoptics.com or call **1-888-fiberhelp** (1-888-342-3743) USA or **1-770-798-5555** outside the USA.

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62.5 μm Graded-Index Multimode Optical Fiber

Product Specifications	62.5 μm Graded-Index Multimode Fiber
Physical Characteristics	62.5/125
Core Diameter	62.5 ± 2.5 μm
Core Non-Circularity	≤ 5 %
Clad Diameter	125 ± 1 μm
Clad Non-Circularity	≤ 1 %
Core/Clad Concentricity Error (Offset)	≤ 1.0 μm
Coating Diameter	245 ± 10 μm
Coating Non-Circularity	≤ 5 %
Coating-Clad Concentricity Error (Offset)	≤ 12 μm
Tensile Proof Test	100 kpsi (0.69 GPa)
Coating Strip Force	Range: 0.22 - 2.0 lbf (1.0 - 8.9 N) Typical: 0.6 lbf (2.7 N)
Standard Reel Lengths	2.2 - 8.8 km
Optical Characteristics	
Attenuation @ 850 nm	≤ 2.9 dB/km
@ 1300 nm	≤ 0.6 dB/km
Overfilled Bandwidth @ 850 nm	≥ 200 MHz-km
@ 1300 nm	≥ 500 MHz-km
Attenuation at 1380 nm minus attenuation at 1300nm	≤ 1.0 dB/km
Attenuation Uniformity / Point Discontinuities at 850 nm and 1300 nm	≤ 0.08 dB
Numerical Aperture	0.275 ± 0.015
Chromatic Dispersion:	
Zero Dispersion Wavelength (λ ₀)	1320 - 1365 nm
Zero Dispersion Slope (S ₀)	≤ 0.11 ps/nm ² -km (1320 ≤ λ ₀ ≤ 1348 nm) ≤ 0.001 x (1458 - λ ₀) (1348 ≤ λ ₀ ≤ 1365 nm)
Group Refractive Index	
at 850 nm	1.496
at 1300 nm	1.491
Backscatter Coefficient	
at 850 nm	-68.4 dB
at 1300 nm	-72.1 dB
Macrobend Attenuation 100 turns on a 75 mm mandrel at 850 nm and 1300 nm	≤ 0.5 dB
Environmental Characteristics	
Operating Temperature Range	-60 °C to +85 °C
Temperature Induced Attenuation at 850 nm and 1300 nm from -60 °C to +85 °C (5 24-hour cycles)	≤ 0.1 dB/km
Temperature and Humidity Induced Attenuation at 850 nm and 1300 nm from -10 °C to +85 °C 94% RH, (30 24-hour cycles)	≤ 0.1 dB/km
Accelerated Aging (Temperature) Induced Attenuation at 85 °C for 30 days	≤ 0.1 dB/km
Water Immersion Induced Attenuation, 23 °C for 30 days	≤ 0.1 dB/km
Dynamic Fatigue Stress Corrosion Parameter (n _d)	≥ 18