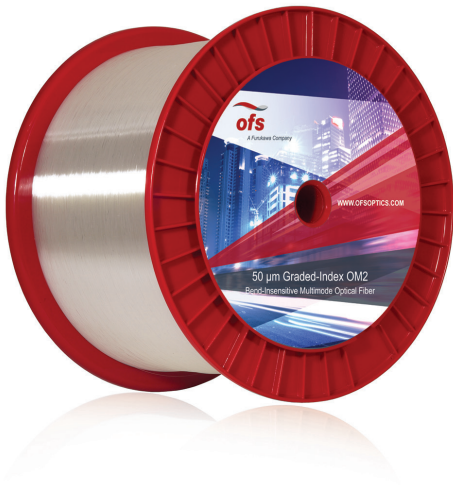




A Furukawa Company

50 μm Graded-Index OM2 - Bend-Insensitive Multimode Optical Fiber

The Reliable Solution for Low-Loss, High Bandwidth Applications



Features

- Superior geometric tolerances and very low attenuation
- Flex-10[®] Coating for excellent fiber protection along with easy stripping
- Meets Telcordia GR-20-CORE and GR-409-CORE standards

Benefits

- Enables minimal connection loss and low cabled attenuation
- Low macrobend loss at bends down to 7.5 mm radius
- Ease of installation

Applications

- Premise general purpose applications

Overview

OFS' 50 Micron (μm) Graded-Index OM2 Multimode Fiber is a Bend-Insensitive 50 μm fiber that provides significantly lower macrobend loss at bends down to 7.5 mm radius, compared to conventional 50/125 μm fiber. Robust and easy to connectorize, the fiber provides ease of installation even under the most stringent conditions.

In addition, 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.

All OFS graded index multimode fibers are 100% quality tested and proven to exceed 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.

For additional information please contact your sales representative.

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

North America
Telephone: 508-347-8590
Toll Free: 800-799-7732
Fax: 508-347-1211
E-mail: fibersalesnar@ofs-optics.com

Asia Pacific
Telephone: +852 2506 5054
Fax: +852 2506 0166
E-mail: fibersalesap@ofs-optics.com

Caribbean, Latin America
Telephone: +1-508-347-8590
Fax: +1-508-347-1211
E-mail: fibersalescala@ofs-optics.com

Japan
Telephone: +81-3-3286-3424
Fax: +81-3-3286-3708 or 3190
E-mail: fibersalesjapan@ofs-optics.com

Europe, Middle East, Africa
Telephone: +45-43 48 3736
Fax: +45 4348 3444
E-mail: ofssalesdk@ofs-optics.com

China
Telephone: +86 10 6505 3660
Fax: +86 10 65059515
E-mail: fibersaleschina@ofs-optics.com



Copyright © 2018 OFS Fitel, LLC.
All rights reserved, printed in USA.

OFS Marketing Communications
Doc ID: fiber-151 Date: 04/18

AlliWave is a registered trademark of OFS Fitel, LLC.

OFS reserves the right to make changes to the prices and product(s) described in this document at any time without notice. This document is for informational purposes only and is not intended to modify or supplement any OFS warranties or specifications relating to any of its products or services.

Product Specifications

Physical Characteristics		
Core Diameter	50 ± 2.5 µm	
Core Non-Circularity	≤ 5 %	
Clad Diameter	125 ± 0.8 µm	
Clad Non-Circularity	≤ 0.7%	
Core/Clad Concentricity Error (Offset)	≤ 1.0 µm	
Coating Diameter	242 ± 5 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 – 17.6 km	
Optical Characteristics		
Attenuation		
at 850 nm	≤ 2.2 dB/km	
at 1300 nm	≤ 0.6 dB/km	
Overfilled Bandwidth		
at 850 nm	≥ 500 MHz-km	
at 1300 nm	≥ 500 MHz-km	
Attenuation at 1380 nm minus attenuation at 1300 nm	≤ 1.0 dB/km	
Attenuation Uniformity / Point Discontinuities at 850 nm and 1300 nm	≤ 0.08 dB	
Numerical Aperture	0.200 ± 0.010	
Chromatic Dispersion		
Zero Dispersion Wavelength(λ_0)	1297 ≤ λ_0 ≤ 1328 nm	
Zero Dispersion Slope (S_0)	$S_0 \leq 4(-103) / (840(1 - (\lambda_0 / 840)^4))$ ps/nm ² .km	
Group Refractive Index		
at 850 nm	1.483	
at 1300 nm	1.479	
Backscatter Coefficient		
at 850 nm	-68.4 dB	
at 1300 nm	-75.8 dB	
Macrobend Attenuation	850 nm	1300 nm
100 turns @ 37.5 mm radius	≤ 0.5 dB	≤ 0.5 dB
2 turns @ 15 mm radius	≤ 0.1 dB	≤ 0.3 dB
2 turns @ 7.5 mm radius	≤ 0.2 dB	≤ 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	