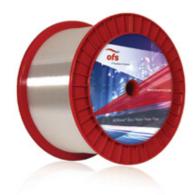


AllWave® Optical Fiber - Zero Water Peak

The Industry's First Zero Water Peak Single-Mode Fiber for Reliable Full-Spectrum Performance



Applications

AllWave ZWP Fiber provides outstanding performance and design freedom for fiber management systems in:

- Metro access
- Metro edge
- Local access
- FTTX
- Campus backbones
- · Long haul

Features and Benefits

- 50% increase in usable optical spectrum enables 16-channel CWDM and DWDM support
- Minimizes attenuation across the full wavelength spectrum and provides low, stable loss in the 1400 nm band
- · Ultra-low PMD allows speed and distance upgrades
- Macrobend performance superior to the G.652.D standard
- · Long-term attenuation reliability by using high purity synthetic silica

Overview

Award-winning AllWave Zero Water Peak (ZWP) Single-Mode Fiber provides low optical loss across the entire wavelength spectrum from 1260 nm to 1625 nm. A patented manufacturing process permanently removes the water peak defect for a fiber that offers the lowest loss of all commercial low water peak (LWP) fibers in the industry.

Product Description

Compliant to the latest ITU-T G.652 A - D requirements, AllWave ZWP Fiber offers dramatically improved performance in almost every characteristic over conventional single-mode fiber, including increased available spectrum, low optical loss, superior macrobend performance and ultra-low polarization mode dispersion (PMD). By using the industry's tightest geometric controls and tight mode field control during manufacture, AllWave ZWP Fiber enables consistently low loss splices and improved connectorization performance.

Combined with complete backward compatibility with the embedded G.652 single-mode fiber base, these features provide ultimate network design flexibility and enable cost-effective solutions to help maximize return on investment.

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.

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

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

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

Japan

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

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

China

Telephone: +86 10 6505 3660

Fax: +86 10 65059515 E-mail: fibersaleschina@ofsoptics.com



EU Directive 2002/95/E

Dynamic Fatigue Stress Corrosion Parameter

Copyright © 2017 OFS Fitel, LLC. All rights reserved, printed in USA.

OFS Marketing Communications Doc ID: fiber-117 Date: 09/17

AllWave 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			
Clad Diameter	125.0 ± 0.7 µm		
Clad Non-Circularity	≤ 0.7 %	· · · · · · · · · · · · · · · · · · ·	
Core/Clad Concentricity Error (Offset)	$\leq 0.5 \ \mu m, < 0.2 \ \mu m \ typically$		
Coating Diameter (Uncolored)		237 - 247 μm	
Coating-Clad Concentricity Error (Offset)	≤ 12 µm		
Tensile Proof Test	· ·	100 kpsi (0.69 GPa)	
Coating Strip Force	Range: 1.0 N ≤ CSF ≤ 8.9 N		
Standard Reel Lengths	50.4 km (31.3 mile		
Optical Characteristics			
Attenuation	Maximum	Typical	
at 1310 nm	≤ 0.34 dB/km	≤ 0.33 dB/km	
at 1385 nm	≤ 0.31 dB/km	≤ 0.27 dB/km	
at 1490 nm	≤ 0.24 dB/km	≤ 0.21 dB/km	
at 1550 nm	≤ 0.21 dB/km	≤ 0.19 dB/km	
at 1625 nm	≤ 0.24 dB/km	≤ 0.20 dB/km	
Attenuation vs. Wavelength ¹			
Range (nm)	Reference (nm) λ	α	
1285 – 1330	1310	0.03	
1360 – 1480	1385	0.04	
1525 – 1575	1550	0.02	
1460 – 1625	1550	0.04	
¹ The attenuation in a given wavelength range of wavelength () by more than the value of	does not exceed the atte	nuation of the reference	
wavelength (λ) by more than the value α . Attenuation Uniformity / Point Discontinuities	≤ 0.05 dB		
at 1310 nm and 1550 nm Macrobending Attenuation:			
The maximum attenuation with bending does no deployment conditions:	ot exceed the specified v	values under the following	
Deployment Condition	Wavelength	Induced Attenuation	
1 turn, 32 mm (1.2 inch) diameter	1550 nm	≤ 0.05 dB	
100 turns, 50 mm (2 inch) diameter	1310 nm	≤ 0.05 dB	
100 turns, 60 mm (2.4 inch) diameter	1550 nm	≤ 0.05 dB	
	1550 nm	≤ 0.05 dB	
	1625 nm	≤ 0.05 dB	
Chromatic Dispersion			
Zero Dispersion Wavelength (λ_0)	1302 - 1322 nm		
Zero Dispersion Slope (S_0)	≤ 0.090 ps/nm²-km		
Typical Dispersion Slope	0.087 ps/nm ² -km		
Cut-off Wavelength (λ_{CC})	≤ 1260 nm		
Group Refractive Index			
at 1310 nm	1.467		
at 1550 nm	1.468		
Mode Field Diameter			
at 1310 nm	9.2 ± 0.4 µm		
at 1550 nm	10.4 ± 0.5 µm		
Polarization Mode Dispersion (PMD) ³	· /		
Fiber PMD Link Design Value (LDV) ⁴	≤ 0.06 ps/√km		
Maximum Individual Fiber	≤ 0.1 ps/√km	·	
Typical Fiber LMC PMD	≤ 0.02 ps/√km	lua mana alta di di di di	
 As measured with low mode coupling (LMC) te Check with your cable manufacturer for specifie The PMD Link Design Value complies with IEC Details are described in IEC 61282-3 TR Ed 2 	c PMD limits in cable for 60794-3, September 20	m.	
Environmental Characteristics (at 1310, 1550 & 1	625 nm)		
Temperature Cycling (-60 + 85 °C)	≤ 0.05 dB/km		
High Temperature Aging (85 ± 2 °C)	≤ 0.05 dB/km		
Temperature & Humidity Cycling (at -10 °C to +85 °C and 95% RH)	≤ 0.05 dB/km		
Water Immersion (23 \pm 2 °C)	≤ 0.05 dB/km		
	(n) > 20		

(n_d) ≥ 20