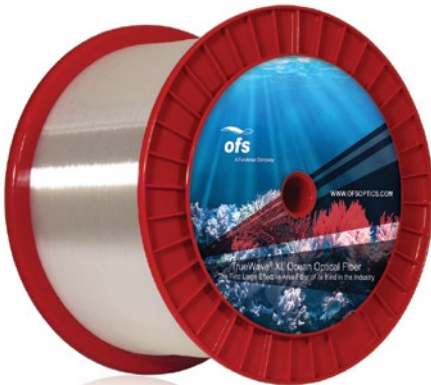




A Furukawa Company

TrueWave® XL Ocean Optical Fiber

The First Large Effective Area Fiber of Its Kind in the Industry



Features and Benefits

- Larger effective area for improved system performance
- Efficient operating window increases distances and achieves high speeds while optimizing amplifier performance
- Low loss, non-zero, chromatic dispersion suppresses four-wave mixing
- Proof tested to 200 kpsi to help ensure long-term reliability under extreme conditions
- D-Lux® Coating helps ensure world-class environmental performance and long-term reliability
- Engineered sets provide the cable manufacturer maximum efficiency

Overview

TrueWave XL Ocean Optical Fiber is a negative dispersion fiber with a large effective area specifically designed for maximum performance in long haul ocean networks. It is the first large effective area fiber of its kind in the industry.

Product Description

TrueWave XL Ocean Optical Fiber is a high-strength, low-loss fiber, designed specifically to operate in the C-Band transmission window. The large effective area allows for higher amplifier launch power while maintaining non-zero chromatic dispersion, which minimizes four-wave mixing.

These two properties are important to facilitate dense wavelength division multiplexing (DWDM) for very high capacity systems. Large core TrueWave XL Fibers, when used in combination with the reduced slope of TrueWave SRS Fiber and the positive dispersion of AllWave® Single-Mode Ocean Fibers, enable network providers to dramatically increase the capacity and transmission speed of transoceanic networks.

Engineered Fiber Sets

OFS has the capability to color and splice ocean fibers to meet stringent cable requirements. Fibers are selected to meet customer specifications for number of fibers, colors, lengths, and transmission properties. They are then assembled into sets. Final measurements guarantee customer specified performance for all fibers in the set.

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



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

OFS Marketing Communications
Doc ID: fiber-122
Date: 0617

TrueWave, D-Lux, and AllWave are registered trademarks 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.

TrueWave® XL Ocean Optical Fiber

Product Specifications	TrueWave XL Ocean Optical Fiber
Transmission Characteristics	
Attenuation @ 1550 nm (nominal)	0.20 db/km
Attenuation @ 1550 nm (max)	< 0.22 db/km
Dispersion Slope @1550 nm (nominal)	< 0.115 ps/nm ² -km
Dispersion @1550 nm (nominal)	-3.0 ps/nm-km
Mode Field Diameter @ 1550 †	9.5 ± 0.5 μm
Effective Area (nominal)	72 μm ²
Cable Cutoff Wavelength	< 1530 nm
PMD @ 1550 nm (nominal) ‡	< 0.025 ps/√km
Effective Group Index of Refraction	1.471 @ 1550 nm
Point Discontinuities @ 1550 nm	0.05 db max
† Lower mode field diameters are available to accommodate specific cable design requirements ‡ Low Mode Coupling (LMC) measurements	
Geometrical Characteristics	
Clad Diameter	125 ± 0.7 μm
Core/Clad Concentricity Error (max)	0.5 μm
Clad Non-circularity (max)	1.0 %
Coating Diameter, uncolored	235 to 250 μm
Coating/Clad Concentricity Error (nominal)	3 μm
Coating/Clad Concentricity Error (max)	12 μm
Coating Diameter, colored	254 ± 8 μm
Mechanical and Other	
Tensile Proof Test (min)	200 kpsi (1.4 Gpa)
Dynamic Fatigue Parameter (nd)	> 20
Static Fatigue Parameter (na)	> 20
Coating Type	D-Lux Series Coatings
Coating Strip Force (Mechanical)	1.3 N (0.3 lb-ft) min 8.9 N (2.0 lb-ft) max
Coating Adhesion	6.2 N (1.4 lb-ft) min 13 N (3.0 lb-ft) max
Colors	Customer specified
Matching Sets	Customer may order sets (groups) of fiber with matching length and mix