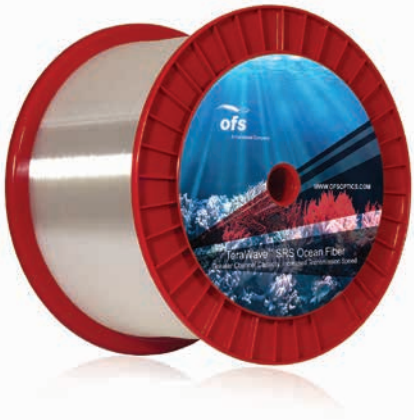




A Furukawa Company

TrueWave® SRS Ocean Optical Fiber

Greater Channel Capacity, Increased Transmission Speed



Features and Benefits

- Low dispersion slope increases system bandwidth by enabling more channels with higher transmission speeds over longer distances
- Low loss, non-zero, chromatic dispersion suppresses four wave mixing
- Efficient operating window increases distances and achieves high speeds while optimizing amplifier performance
- 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

Applications

- Ultra-long haul networks using advanced modulation formats and coherent detection such as transoceanic networks
- Applications without repeaters, such as coastal festoons and deep-water crossings

Overview

OFS' TrueWave® Submarine Reduced Slope (SRS) Fiber is specifically designed for maximum performance in undersea networks. TrueWave SRS Fiber is the first reduced dispersion slope fiber of its kind in the industry, enabling network providers to dramatically increase the channel capacity and transmission speed of submarine networks. More channels at higher speeds over longer distances are possible with TrueWave SRS Fiber because its reduced dispersion slope permits more uniform dispersion compensation across the entire EDFA spectrum.

Product Description

TrueWave SRS Fiber is designed for use in submarine cables engineered specifically for regional ocean repeatered systems. Applications without repeaters, such as coastal festoons and deep-water crossings, can also take advantage of the fiber's high bandwidth capacity. For longer regional and trans-oceanic applications, TrueWave SRS Fiber can be combined in spans with the large effective area TrueWave XL Fibers and the positive dispersion of AllWave® Single-Mode Ocean Fibers for optimal system performance.

TrueWave SRS Fiber is a highly reliable fiber optimized for dense wave division multiplexing (DWDM). The low dispersion characteristics and low PMD values allow traditional telecommunications consortiums and new private carriers to deploy state-of-the-art systems today, and facilitate efficient migration to the extraordinarily high bandwidth systems that are anticipated in the future.

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.

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OFS Marketing Communications
Doc ID: fiber-121 Date: 01/17

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Product Characteristics

Transmission Characteristics

Attenuation @ 1550 nm (nominal)	0.20 dB/km
Attenuation @ 1550 nm (max)	< 0.215 dB/km
Dispersion Slope @ 1550 nm (nominal)	< 0.045 ps/nm ² -km
Mode Field Diameter @ 1550 [†]	8.4 ± 0.6 mm
Effective Area (nominal)	50 μm ²
Cable Cutoff Wavelength	< 1530 nm
PMD @ 1550 nm (nominal) [‡]	< 0.025 ps/√km
Effective Group Index of Refraction	1.470 @ 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

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 help ensure that customer specified performance is met for all fibers in the set.