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News Release

OFS INTRODUCES RAMAN CAPABILITY AND EXPANSION INTO C AND L BANDS TO ITS RIGHTWAVE™ MODULES

OFC, Booth 4700, Anaheim, CA, March 18, 2002 - OFS, designer, manufacturer and supplier of leading edge fiber optic products, today announced several enhancements to its series of Dispersion Compensating Modules under the RightWave™ brand. These enhancements allow for the direct use of the modules as a Raman gain medium.

The current development into 10 and 40 Gb/s systems requires progressively tighter control of optical parameters, while relentless pressure for lower cost and higher performance necessitates the use of wider transmission bands. The enhancements to the RightWave Module product line include an expansion of the wavelength range into the L-band and the possibility for ultra precise compensation of dispersion and slope specification of parameters.

"It is necessary to have an exact match between the dispersion characteristics of the transmission fiber and the fiber in the dispersion compensating module," said Ken Walker, President, OFS Laboratories. "Parallel developments are focused on the option of using these modules as a Raman gain medium, which will offer the system developer added flexibility in the choice of optical amplification."

Product Enhancements

- The current series of RightWave modules for compensation of conventional single-mode fiber and non-zero dispersion fibers has been extended with product versions enabling use in the L-band.
- For compensation of conventional single-mode fiber, OFS developed an enhanced version of its WideBand Module. This allows for simultaneous compensation of dispersion in both C- and L-band with very low residual dispersion, as well as lowered insertion loss.
- For applications requiring a tight specification of the dispersion and dispersion slope, OFS has introduced product version CS-DK. This can be done on virtually the same footprint as

traditional product versions.

- OFS is introducing the UHS module, making simultaneous dispersion and dispersion slope compensation possible in the C-band for high slope NZDF fibers.
- Complementing its TrueWave® REACH fibers, OFS is introducing RightWave modules enabling dispersion slope compensation in C-, C&L- or L-band.

The above modules can be specified with respect to optical parameters relevant for the use of the modules as a Raman gain medium. This will allow the user to have amplification of the optical signal in order to achieve a loss-less module or actual amplification of the signal.

About RightWave™ Modules

The RightWave Modules are based on well-known single-mode fiber technology and were introduced as a commercial product in the mid-1990's. Since then, the modules have developed into a range of products that can be used to compensate any commercially available transmission fiber. The built-in experience from manufacturing of tens of thousands of modules is part of OFS know-how enabling the present day stable and robust design.

The production, ISO 9001 certified, has been adapted to allow for flexible and quick delivery to customers throughout the world.

Recent developments follow a long list of OFS firsts achieved during the last decade:

- Volume manufacturing of low polarization mode dispersion modules 1997
- WB-DK Modules with full slope compensation for G.652 fiber 1998
- HS-DK Modules yielding 65% slope compensation in the C-band for TrueWave® RS fiber 1999
- HS-DK Modules yielding 100% slope compensation in the L-band for TrueWave RS fiber 2000
- EHS-DK Modules yielding 100% slope compensation in the C-band for TrueWave RS fiber 2001
- CS-DK Modules with very tight/high residual dispersion slope 2001

- UltraWave™ IDF Fiber for Ocean Applications 2001
- Raman RightWave Modules 2002
- UHS-DK Modules for high slope NZDF compensation in the C-band 2002
- RightWave REACH Modules for TrueWave REACH fiber compensation in the C-, C&L- or L-band. 2002

About OFS

OFS is a world-leading designer, manufacturer and provider of optical fiber, optical fiber cable, connectivity, FTTx and specialty photonics solutions. Our marketing, sales, manufacturing and research teams provide forward-looking, innovative products and solutions in areas including Telecommunications, Medicine, Industrial Automation, Sensing, Government, Aerospace and Defense applications. We provide reliable, cost effective optical solutions to enable our customers to meet the needs of today's and tomorrow's digital and energy consumers and businesses.

OFS' corporate lineage dates back to 1876 and includes technology powerhouses such as AT&T and Lucent Technologies. Today, OFS is owned by Furukawa Electric, a multi-billion dollar global leader in optical communications.

For more information, please visit www.ofsoptics.com.

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