

News Release

OFS Announces Higher DWDM Capacity Over TeraWave™ ULL Optical Fiber with Nokia Commercial Ultra-Wideband C+L-Band System at OFC 2017

OFC 2017, Booth 2925, Los Angeles, California, March 20, 2017 - OFS, a leading designer, manufacturer and supplier of innovative fiber optic network products and solutions will showcase the capacity and un-regenerated reach of Nokia's 1830 Photonic Service Switch (PSS) Ultra-wideband C+L-band DWDM system over OFS' TeraWave™ ULL Optical Fiber, helping to reduce cost-per-bit of transport across the ultra-long haul distances needed to connect hyper-scale datacenters. TeraWave ULL Optical Fiber has the largest available effective area for a terrestrial fiber, allowing maximum suppression of non-linear penalties that limit the reach of high capacity, coherent modulation formats. The cost-per-bit of fully lighting a TeraWave ULL Optical Fiber can be up to 50% lower than the cost-per-bit of fully lighting a G.652 fiber by avoiding the high cost of regeneration to meet reach targets.

"One of the most significant challenges in modern transport engineering is maintaining low cost-per-bit when connecting cloud datacenters," said Robert Lingle, Jr., Director of Market & Technology Strategy at OFS. "Traffic is growing inside the networks of cloud content providers at compound annual growth rates as high as 50%, while the distance between web-scale data centers can be longer than 4000 km in both Europe and North America. As both practical and fundamental limits make it more difficult to increase spectral efficiency in the future, C+L-band transmission is an attractive way to roughly double the capacity per fiber – if the fiber and cable are properly designed for L-band wavelengths."

The Nokia 1830 PSS optical networking platform achieves ultra-long haul performance at 200G (using the 8QAM modulation format) and extended metro/DCI reach at high spectral efficiencies. The OFS TeraWave ULL ITU-T G.654.E Optical Fiber reduces amplifier noise by its ultra-low nominal loss of 0.168 dB/km and minimizes non-linear distortion by its large effective area of 125 microns squared. The waveguide of TeraWave ULL Optical Fiber was designed to minimize both micro- and macrobending losses in the L-band for good terrestrial cable performance and excellent splice performance.

For extended metro/DCI applications, TeraWave ULL Optical Fiber can support 400 Gb/s up to 300 km over 100 km spans without Raman amplification on the Nokia 1830 platform. With a hybrid Raman-EDFA amplifier, TeraWave ULL Optical Fiber can support 200 Gb/s transport up to 4500 km un-regenerated over 100 km spans. These link budgets assume realistic cable losses and margin for field deployment, using commercial gear.

OFS' TeraWave ULL Optical Fiber helps to cost effectively achieve the longest available un-regenerated reach for both traditional and cloud transport networks, where maximum capacity can be achieved by using advanced coherent modulation formats and C+L-band wavelengths.

For more information on these and other OFS products, please visit OFS booth #2925 or visit www.ofsoptics.com.

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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