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News Release

OFS ANNOUNCES TERAWAVE® OPTICAL FIBER

New Fiber Increases Capacity and Enables More Cost Effective, Coherent, Long Haul Networks

OFC/ NFOEC 2014, Booth 4153, San Francisco, California, March 11, 2014 - OFS, a leading designer, manufacturer and supplier of innovative fiber optic network products, has introduced TeraWave™ fiber, an improved ITU-T G.654B large area single-mode fiber designed for 100 Gb/s and 400 Gb/s coherent transport and beyond in terrestrial long haul systems. TeraWave™ fiber enables higher transmission speeds over longer distances with more wavelengths, reducing the need for expensive signal regeneration.

TeraWave fiber offers a combination of optimized effective area, excellent cabling performance, and reduced attenuation compared to conventional ITU-T G.652.D single-mode fibers. These benefits improve coherent transport, including higher spectral efficiency at 100 Gb/s and true long haul reach at 400 Gb/s. With 50% greater effective area of conventional G.652.D fiber types, TeraWave fiber greatly reduces nonlinear impairments for coherent transmission, enabling the launch of higher signal power for the increased Optical Signal Noise Ratio (OSNR) needed for increasingly advanced modulation formats and longer reach.

According to David DiGiovanni, Chief Technology Officer of OFS, “The longer optical reach enabled by TeraWave fiber means fewer regeneration sites helping to save capital cost, rack space in huts, and power consumption. Furthermore, increased capacity through higher spectral efficiency has always been the driver of long haul economics, and TeraWave fiber supports this increase through optimized fiber properties. This achievement will have increasing value as transmission technology approaches the ‘non-linear Shannon limit.’ TeraWave fiber increases the practical capacity of optical fiber to better support future bandwidth demands.”

OFS manufactures TeraWave fiber using proprietary processes to enable improved linearity, low attenuation, and ultra-low polarization mode dispersion (PMD) compared to conventional G.652.D single-mode fiber.

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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