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News Release

NEW OCEAN FIBER OFFERS INDUSTRY'S LARGEST EFFECTIVE AREA FOR HIGHER SIGNAL POWER, LOW LOSS AT 100 GB/S

TeraWave™ ULA Fiber Enables Higher Transmission Speeds with More Wavelengths over Trans-oceanic Distances

Paris, France, 22. April, 2013 - OFS, a leading designer, manufacturer and supplier of innovative fiber optic network products, has introduced TeraWave™ ULA Ocean Fiber, a new single-mode fiber designed for 100 Gb/s coherent transport in submarine systems for distances up to 12,000 km.

A breakthrough in ocean fiber technology, TeraWave ULA Fiber offers a unique combination of the industry's largest effective area, excellent cabling performance, and significantly reduced attenuation for reliable coherent transmission at 100 Gb/s over trans-oceanic distances. The fiber's very large effective area (153 µm2) reduces nonlinearities, enabling the launch of higher signal power into the span, and improves signal loss (0.176 dB/km at 1550 nm).

When used in shorter length applications, the fiber can provide even better nonlinearity performance for increased spectral efficiency.

OFS manufactures TeraWave ULA Fiber using proprietary processes to produce fiber with low water peak (LWP) performance and ultra- low polarization mode dispersion (PMD). The new fiber is optimized for ultra long haul networks that use advanced modulation formats and coherent detection, such as transoceanic networks where extreme distances between shore end terminals limit the per-channel launch power in DWDM transmission. Compared to earlier generations of submarine fibers, TeraWave ULA Fiber reduces the performance limitations introduced by fiber nonlinearities, thereby supporting higher spectral efficiency and lower repeater spacing.

Applications without repeaters, such as coastal festoons and deep-water crossings, can also take advantage of the large effective area of TeraWave SLA ocean fiber, which permits higher power handling capacity without additional distortion, meaning more channels at higher speeds over longer distances before amplification is required.

As with all its ocean fiber products, OFS has the capability to color and splice TeraWave ULA 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.

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.

CONTACT:

Sherry Salyer
OFS Public Relations
shsalyer@ofsoptics.com
Direct: 770-798-4210
Mobile: 678-296-7034