

OFS Announces AcoustiSens® Wideband Vibration Sensor Fiber, Dramatically Improving Interoperability with DAS Interrogators

Photonics West, Moscone Center, San Francisco, CA. 4 February 2020 - OFS, a leading designer, manufacturer, and supplier of innovative fiber optic products introduces AcoustiSens Wideband single-mode vibration sensor fiber. Designed to enhance Distributed Acoustic Sensing (DAS) systems, this proprietary product will be on display at the OFS booth (#327) during SPIE Photonics West being held at the Moscone Center in San Francisco, California from 4 through 6 February 2020.

Improving on recent AcoustiSens products, Wideband is based around the ITU-T G.657.A1 waveguide for enhanced bend insensitivity and includes an expanded operating band to ensure interoperability with all known DAS interrogators. AcoustiSens optical fiber, when coupled via sensing cables to commercially available DAS systems, enables significant improvements in Acoustic Signal to Noise Ratio (ASNR) through dramatic gains in the Optical Signal to Noise Ratio (OSNR) of the fiber. Splice-compatible with ITU-T G.657 and G.652.D telecom-standard fibers, AcoustiSens Wideband fibers simplify sensor fiber selection while improving system performance.

“Adding to the original AcoustiSens advantages of enhanced Rayleigh backscatter with low loss, we now include improved bend-insensitivity and a much wider operating band.”, said Mike Hines, Market Manager for OFS, “AcoustiSens helps by meeting the challenge of greatly increasing Rayleigh backscatter while maintaining low attenuation, thereby improving OSNR within the fiber. This translates to dramatic improvements in DAS ASNR at the systems level.”

Adam Hokansson, OFS Fiber Value Stream Manager adds “The OFS specialty team is uniquely positioned to support development of next generation DAS systems with AcoustiSens as an enabling component. By adding improved bend insensitivity, design and manufacturing of DAS sensing cables is simplified. Furthermore, by expanding to an operating band of 1536 - 1556 nm, AcoustiSens Wideband is now compatible with all known DAS interrogators.”

For more information on these and other OFS products, stop by OFS booth #327 at Photonics West or visit www.ofsoptics.com.

About OFS

OFS is a world-leading designer, manufacturer and provider of optical fiber, fiber optic cable, connectivity, fiber-to-the-subscriber (FTTx) and specialty fiber optic products. We put our development and manufacturing resources to work creating solutions for applications in such areas as telecommunications, medicine, industrial automation, sensing, aerospace, defense and energy. We provide reliable, cost-effective fiber optic solutions that help our customers meet the needs of consumers and businesses today and into the future.

Headquartered in Norcross (near Atlanta) Georgia, U.S.A., OFS is a global provider with facilities in China, Denmark, Germany, Morocco, Russia and the United States. OFS is part of Furukawa Electric Company, a multi-billion-dollar leader in optical communications.

Please visit www.ofsoptics.com.

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