



A Furukawa Company

Your Optical Fiber Solutions Partner™

News Release

Tyco Telecommunications Completes Transpacific Network Tuesday December 17, 9:18 am ET Network Completed in Record Time, Exceeding Design Specifications

MORRISTOWN, N.J., Dec. 17 /PRNewswire-FirstCall/ -- Tyco Telecommunications announced the successful completion of the Tyco Global Network (TGN) Pacific Ring with connectivity between North America and the Pacific Rim. The Pacific Ring of TGN (Tyco Transpacific) consists of a total cable length of approximately 18,000 km, including two direct trans-Pacific cables from Oregon to Japan, with extensions to California and Guam. The cable was designed to provide a total capacity in excess of 5Tb/s per cable across the ring when fully equipped.

The careful design and manufacture of these long cable segments allowed for the network to be installed and commissioned in record time. Recently completed measurements performed during the commissioning process confirm that the cable exceeds the design objectives. This successful installation and commissioning suggest that the system capacity can be significantly upgraded in the future when supporting technologies become available. The quality of route selection and robust installation will also enhance the overall performance and reliability of the network.

"We are very pleased with the speed with which the network was commissioned and the excellent performance that has been demonstrated with the new technology," says Dr. William Marra, Senior Managing Director of Tyco Telecommunications. "With the completion of the Pacific ring we are well positioned to offer our customers the global connectivity that they require at attractive cost points. The deployment of this new technology places Tyco Telecommunications in a unique competitive position regarding the construction of future trans-Pacific cables. Everyone else will be attempting to catch up, but we will be years ahead!"

The Pacific ring of the Tyco Global Network represents the first application of a new ultra-wide band fiber that manages the dispersion slope across the entire usable transmission band. This new design uses two specially designed fiber types that are "matched" in properties within each 45-kilometer repeater span to create a transmission fiber optic path that has very wide-band operation.

Fibers that meet these specifications, known as [UltraWave\(TM\) SLA and IDF fibers](#), were provided by [OFS](#). The provision of these fibers for this application was the results of years of collaborations between Tyco Telecommunications and OFS engineers and scientists.

"This unparalleled collaboration between Tyco Telecommunications and OFS allowed for the rapid deployment of a new fiber technology that has the potential for operators to achieve even larger capacity on their new networks," says Nick Khoury, President of OFS' Optical Fiber Division.

"The close relationship between Tyco and OFS engineers allowed us to convert a laboratory demonstration into a real system in less than two years," says Dr. David Kalish, CTO and Vice President of Research and Development for Optical Fiber and Cable at OFS.

"This extraordinary level of cooperation was crucial in allowing us to overcome the significant manufacturing and cable maintenance hurdles that were presented with the introduction of the new slope-matched cable technology," says Dr. Seymour Shapiro, Managing Director of Undersea Cable & Mechanical Development at Tyco Telecommunications.

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