New Siemon LightVerse™ Fiber System Achieves Third-Party 400G Testing with Considerable Margin

Watertown, CT - The Siemon Company, a leading global network infrastructure specialist, is pleased to announce that its new ultra-low-loss singlemode MTP cabling system exhibits considerable margin over IEEE 400 Gigabit channel limits as proven through third-party testing.

Intertek Testing Services, a global leader in the testing, inspection, and certification of products, recently tested Siemon’s new singlemode ultra-low-loss MTP cabling system in IEEE 802.3bs 400GBASE-DR4 and IEEE 802.3cu 400GBASE-FR4 400 Gigabit applications. The testing utilized Siemon’s new LightVerse™ fiber optic cabling system which was presented to visitors at the recent BICSI Winter event in Florida and will be launched in Q2 2022 across the USA, Canada and Latin America regions, with other global regions to follow later in the year.

Both channels were configured with a higher number of connections than typically used to ensure performance across a range of deployments. The parallel optic 400GBASE-DR4 channel consisted of eight (8) mated Siemon LightVerse™ MTP adapter plates and MTP-MTP cabling assemblies over the maximum allowed channel length of 500 meters. The WDM 400GBASE-FR4 channel consisted of five (5) Siemon LightVerse MTP-to-LC modules, MTP-MTP cabling assemblies, and LC-LC BladePatch® fiber jumpers over the maximum allowed channel length of 2,000 meters. Both channel configurations were tested for insertion loss and reflectance using the one-jumper method specified in TIA-568.3.D standards and exhibited considerable margin over stringent IEEE channel limits.

Siemon’s singlemode ULL industry-leading component specifications provide a maximum IL performance of 0.30 dB for MTP connectors, 0.50 dB for MTP-LC modules and 0.20 dB for LC BladePatch cords. The channel testing showed actual results well below the maximum specifications.
“With emerging technologies driving widespread 400 Gigabit adoption in hyperscale data centers and enterprise data centers gearing up to deploy these next-generation speeds, data center operators need to be confident that their cabling systems can reliably support current and future 400 Gigabit applications. Recent third-party testing of our ultra-low-loss singlemode MTP cabling system delivers that confidence and more,” says Gary Bernstein, RCDD, CDCD, Global Data Center Solutions Specialist for Siemon. “By demonstrating the ability of our ultra-low-loss components to support multiple mated connections in 400 Gigabit channels and still meet stringent IEEE requirements, data center operators can ensure flexibility over a range of distances and configurations, including the use of convenient cross-connects that facilitate management, upgrades, and reconfigurations—all while remaining within their loss budget.”

Third-Party 400G Testing Summary of Siemon’s Singlemode Ultra Low Loss System:  
https://go.siemon.com/400gtesting

To learn more about Siemon 400/800G Data Center networking, please visit:  
https://www.siemon.com/en/home/applications/400g-data-center-networking

To sign up for exclusive LightVerse pre-launch content, please visit:  
https://www.siemon.com/en/home/company/about/innovation/#lightverse

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**About Siemon**

Established in 1903, Siemon is an industry leader specializing in the design and manufacture of high-quality, high-performance IT infrastructure solutions and services for Data Centers, LANs, and Intelligent Buildings. Headquartered in Connecticut, USA, with global sales, technical and logistics expertise spanning 150 countries, Siemon offers the most comprehensive suites of copper and optical fiber cabling systems, racks, cable management, and Intelligent Infrastructure Management solutions. With more than 400 patents specific to structured cabling, Siemon Labs invests heavily in R&D and the development of Industry Standards, underlining the company’s long-standing commitment to its customers and the industry. Through an ongoing commitment to waste and energy reduction, Siemon’s environmental sustainability benchmarks are unparalleled in the industry, including 179% global carbon negativity and zero-landfill status.

Siemon Interconnect Solutions (SIS) is a Siemon business unit comprised of a team of dedicated technical sales professionals supported by Siemon Labs, mechanical, electrical, and signal integrity engineers committed to solving industry and customer driven interconnect challenges. We provide custom network infrastructure solutions to OEMs, Leading Manufacturers, Value-Added Resellers and System Integrators.

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