



## News Releases

### Corning Long-Haul Optical Fibers Enable Extended Reach in 40G and 100G Networks

CORNING, N.Y., March 22, 2010 – Corning Incorporated (NYSE:GLW) will demonstrate the robust performance and extended reach capability of its long-haul optical fiber products in 40 gigabits per second (G) and 100G network systems with Ciena Corporation at [OFC/NFOEC](#), March 22-25 in San Diego. Extended reach and the ability to construct longer spans enable high-capacity transmission over long distances without expensive regeneration. This thereby reduces capital expenses and simplifies the construction and deployment of high-data-rate terrestrial networks.

The 100G system travels a distance of 1,500 kilometers (km) and consists of 12 spans, each 125 km. The configuration is possible using Corning's [SMF-28® ULL](#) optical fiber, the lowest attenuation ITU-T G.652-compliant fiber, and Ciena's 100G Adaptive Optical Engine, both of which are commercially available today. The average fiber attenuation of each span is at or below 0.17 decibels of loss per kilometer (dB/km) at 1550 nanometers (nm). The ultra-low attenuation of SMF-28 ULL fiber enables 30-35 percent longer system reach compared to typical single-mode fibers.

"We are delighted to work with Ciena to show a 100G solution with commercially available products," said [Martin J. Curran](#), senior vice president and general manager, [Corning Optical Fiber](#). "We continue to improve our long-haul optical fiber products so they deliver the robust performance our customers require today and in the future. Low-loss optical fiber allows network operators to extend optical reach at very high data rates and make their network scalable for the higher capacities that will be required to meet growing bandwidth demand."

The companies will also demonstrate Ciena's newly developed 40G ultra long haul solution over an unregenerated distance of 3,100 km using Corning long-haul optical fibers. Ciena's 40G signal will be transmitted through 1,600 km of Corning's [LEAF® fiber](#) and 1,500 km of SMF-28 ULL fiber, in a configuration representative of some of the most challenging long-distance network designs.

Finally, the companies will also demonstrate 100G performance over 800 km of Corning LEAF fiber, the most widely deployed non-zero dispersion shifted fiber. LEAF fiber has the lowest attenuation and largest effective area of any ITU-T G.655-compatible optical fiber, enabling 20-25 percent greater system reach compared to typical G.655 fiber. The average LEAF fiber attenuation of each span is at or below 0.190 dB/km at 1,550 nm.

For detailed product specifications, visit [www.corning.com/opticalfiber](http://www.corning.com/opticalfiber).

#### About Corning Incorporated

Corning Incorporated ([www.corning.com](http://www.corning.com)) is the world leader in specialty glass and ceramics. Drawing on more than 150 years of materials science and process engineering knowledge, Corning creates and makes keystone components that enable high-technology systems for consumer electronics, mobile emissions control, telecommunications and life sciences. Our products include glass substrates for LCD televisions, computer monitors and laptops; ceramic substrates and filters for mobile emission control systems; optical fiber, cable, hardware & equipment for telecommunications networks; optical biosensors for drug discovery; and other advanced optics and specialty glass solutions for a number of industries including semiconductor, aerospace, defense, astronomy and metrology.

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