

**Optical Fiber
Fact Sheet**

January 13, 2009

Overview

Corning Optical Fiber, part of Corning's Telecommunications segment, invented the first low-loss optical fiber and has a long history of developing and delivering high-value fiber innovations. Whether it's continually improving the fibers already working for the customer or creating innovative new fibers that change the fundamentals of optical networking, Corning is there for the customer in the long-term.

Corning remains the worldwide market leader in optical technology, offering a full line of single-mode and multimode optical fibers for all network applications. Corning's entire family of optical fiber boasts industry-leading geometrical properties for low splice loss and high splice yields, supported by an unparalleled, proprietary manufacturing process designed to produce high-quality products. Corning fibers are recognized in the industry for their excellence and innovation.

Executive Leadership

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Historical Highlights

- 1970: Corning scientists create the first low-loss optical fiber
- 1982: Corning sets world record for low attenuation in laboratory tests: 0.16dB/km
- 1983: Corning introduces SMF-21™ optical fiber
MCI selects Corning fiber/Siecor cable for first major U.S. installation
- 1985: Introduction of SMF/DS™ optical fiber
- 1986: Corning introduces SMF-28® optical fiber
- 1988: Corning introduces Titan® optical fiber
- 1993: Drs. Maurer, Keck and Schultz inducted into the National Inventors Hall of Fame for developing low-loss optical fiber
Corning receives ISO 9001 registration
- 1994: Corning receives National Medal of Technology Award
Corning introduces SMF-LS™ optical fiber
- 1995: Corning Optical Fiber (previously called the Telecommunications Products Division) wins Malcolm Baldrige National Quality Award
- 1997: Corning sets a new industry standard for single-mode core/clad concentricity by tightening its specifications 25 percent, from ≤ 0.8 to ≤ 0.6 micron
- 1998: Corning introduces LEAF® optical fiber
Corning introduces InfiniCor® & InfiniCor® 600 laser-optimized multimode fibers
Corning introduces Submarine LEAF® optical fiber
Corning introduces SMF-28® optical fiber with DuraClad™
Corning sets new industry standards for fiber geometry with tighter specifications for core/clad concentricity, curl, coating diameter, mode-field diameter & 100-turn bending
- 1999: LEAF® fiber wins *Laser Focus World* Commercial Technology Achievement Award
LEAF® fiber wins *Fiberoptic Product News* Annual Technology Award
Corning introduces InfiniCor® CL optical fiber
LEAF® fiber awarded *Photonics Spectra* Circle of Excellence Award
LEAF® fiber awarded *R&D Magazine's* R&D 100 Award
- 2000: Corning introduces MetroCor® optical fiber
Corning introduces new generation of LEAF® fiber technology
White House awards National Medal of Technology to Corning inventors of low-loss optical fiber
- 2001: MetroCor® fiber awarded *Photonics Spectra* Circle of Excellence Award
Corning introduces SMF-28e® optical fiber
Corning introduces Vascade® optical fibers
MetroCor® fiber awarded *R&D Magazine's* R&D 100 Award

- 2002: Corning introduces InfiniCor® SX+ optical fiber
 SMF-28e® fiber wins *Fiberoptic Product News* Annual Technology Award
 Corning introduces InfiniCor® SXi optical fiber
 Corning introduces industry-leading enhancements for its line of single-mode fibers, including LEAF®, SMF-28e® and SMF-28® optical fibers
- 2003: Corning introduces further enhancements to LEAF® and SMF-28e® optical fibers
 Corning announces global conversion of standard single-mode fiber manufacturing to ITU-T G.652.D-compliant full-spectrum fiber
 Additional specification enhancements for fiber geometry announced on SMF-28e® optical fiber
- 2004: Corning introduces NexCor® optical fiber, an SMF-28e® innovation.
- 2005: Corning introduces InfiniCor® eSX+ optical fiber
- 2006: Corning introduces Vascade® EX1000 optical fiber, an ultra low-loss fiber for submarine networks.
- 2007: Corning introduces SMF-28® ULL, a new ultra-low-loss, single-mode optical fiber for long-haul and regional networks.
 Corning introduces ClearCurve™ optical fiber with nanoStructures™ technology, a revolutionary new bend-insensitive optical fiber for fiber-to-the-home deployment in apartment complexes and high-rise apartments.
 Corning ClearCurve fiber selected by *TIME magazine* as one of the best inventions of the year.
- 2008: ClearCurve® single-mode fiber awarded *R&D Magazine's* R&D 100 Award
- 2009: Corning introduces ClearCurve® OM3/OM4 multimode fiber

Products

Single-Mode Optical Fibers

Fiber Type	Application
SMF-28e® fibers	Unamplified regional, metropolitan and access networks, such as fiber to the x and CATV, as well as emerging applications requiring the versatility of full-spectrum, ITU-T G.652.D-compliant fiber.
ClearCurve® single-mode fiber	Hundreds of times more bendable than standard single-mode fiber, enabling deployment of fiber-to-the-home in apartment complexes and high-rises.
SMF-28® ULL fiber	Single-mode fiber with ultra low attenuation and low PMD, enabling greater system reach and longer spans in long-haul and regional terrestrial networks.
LEAF® fiber	High-capacity, high-data-rate, metro & long haul networks
MetroCor® fiber	High-bit-rate, regional & metropolitan ring networks
Vascade® fiber solutions	Transoceanic & short-haul submarine networks

Multimode Optical Fibers

Fiber Type	Application
ClearCurve [®] OM3/OM4 multimode fiber	The world's first laser-optimized multimode fiber to withstand tight bends at or below 10 mm radius with substantially less signal loss than traditional multimode fiber. The improved bend performance minimizes signal loss and enables faster and more efficient optical cable pathways, routing and installation in enterprise networks.
InfiniCor [®] SX family of fibers	High-speed, laser-based local area networks, storage area networks, high-speed parallel interconnects for head ends, central offices and data centers
InfiniCor [®] CL [™] 1000 fiber	High-speed, laser-based local area networks requiring longer fiber link lengths
InfiniCor [®] 300 & 600 fibers	High-speed, laser-based local area networks
Corning [®] 62.5/125 & 50/125 fibers	Local area networks using LEDs or lasers at shorter link lengths

Facilities

- Wilmington, North Carolina, USA
- Concord, North Carolina, USA
- Shanghai, China

For Additional Information:

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