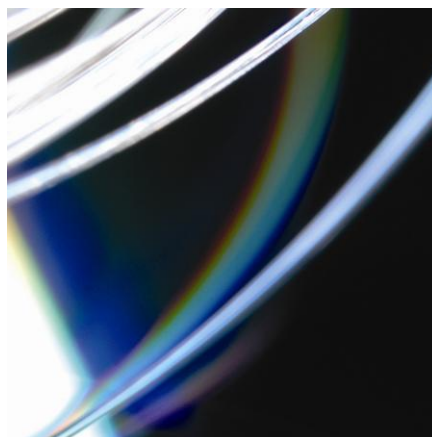
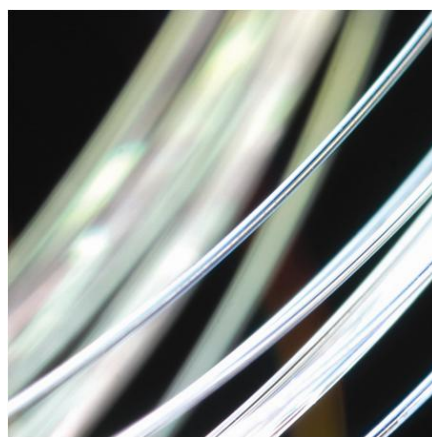
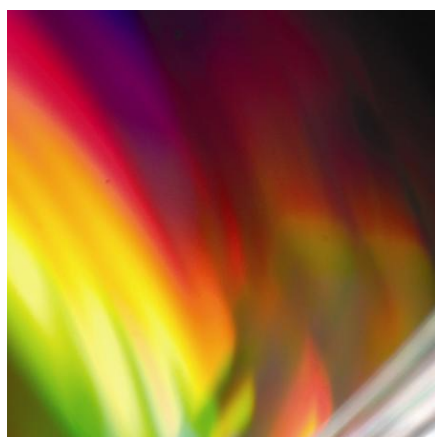


Corning® Specialty Fiber

Corning's specialty fiber is optimized for diverse applications and plays an integral role in many high-performance fiber-optic products. Our core expertise in optical fiber enables us to produce specialty fiber with the industry's leading technical specifications.

Manufactured with Corning's patented Outside Vapor Deposition (OVD) process, which results in highly consistent glass and excellent reliability, and available MCVD process, Corning's specialty fibers set the standard for uniformity and reliability.



Erbium-Doped Fiber

All of Corning's Erbium-doped fibers are hermetically coated for significant advantage with respect to mechanical reliability and resistance to hydrogen induced optical attenuation degradation. These Erbium-doped fibers have a proven track record in state-of-the-art optical amplifiers, and exhibit consistently low splice loss when coupled with fibers such as Corning® HI 1060 FLEX, Corning® HI 980 and Corning® SMF-28e+™ optical fiber. Erbium-doped fiber designs are available for conventional C-band, L-band and Reduced Clad (RC, fiber OD = 80 µm) applications.

Applications

- Single and multi-channel optical amplifiers
- Digital and analog systems
- CATV amplifiers

Products

- ER 1550C
- ER 1550C3
- ER 1550C3 LC
- ER 1600L3
- RC ER 1550C
- RC ER 1600 L3

High Index Fiber / Bend Insensitive

Corning's suite of high index (HI) fibers is used across telecommunications, aerospace and industrial markets in applications such as WDM couplers, splitters and pump pigtails.

Applications

- Component fiber for EDFA, couplers and other DWDM components
- Pigtails for pump laser and LED sources
- Ultra-compact components requiring small bend radii
- Sensors

Products

- HI 780
- HI 980
- HI 1060
- HI 1060 FLEX
- RC 1300
- RC 1550
- RC HI 980
- RC HI 1060
- RC HI 1060 FLEX

High Temperature / Harsh Environment

Corning's high temperature and harsh environment fibers are designed for applications requiring improved fatigue resistance, high usable strength and excellent resistance to high temperature and hydrogen permeation. The fiber consists of single-mode and multimode core and single or dual coating system, including a hermetic carbon layer (optional) and a high temperature polyimide layer.

Products

- Products with hermetic coating
- Products with polyimide coating



PANDA / Polarization Maintaining

Corning® PANDA Polarization Maintaining (PM) fibers are designed with high performance properties including excellent birefringence and low attenuation. Corning offers the broadest portfolio of PANDA PM fibers for wavelength range of 400 nm – 1550 nm and designs such as high NA and flame retardant coating fibers.

Applications

- Laser and LED sources
- Sensors
- External modulators
- Dynamic gain/spectrum equalizers
- Optical switches
- Splitters, combiners, tap couplers and multiplexers
- Planar waveguide devices
- Polarization sensitive components
- Arrayed devices

Products

- PANDA PM
- RC PANDA PM
- PANDA PM High NA
- PANDA PM Flame Retardant

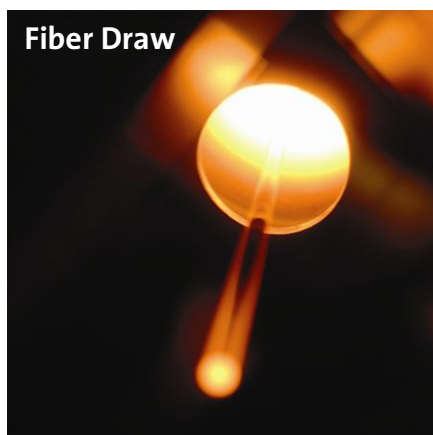
Special Optical Fibers

Corning's suite of special single-mode fibers includes: low wavelength RGB400 for sensors in Red-Green-Blue wavelengths; SMF-28e+™ photonic fiber which has unique properties of reduced core-to-cladding offset, tighter cladding geometries for lower splicing losses and guarantees single-mode operation without cabling, SMF-28e° XB optical fiber for tight bending applications, RC SMF optical fiber which is an 80 μm clad design for small form factor applications.

Corning continues to enable emerging and existing markets with leading technology and capabilities in specialty fibers. Areas such as high power fiber lasers, sensors, small form factor and many others benefit from the vast array of attributes offered by these specialty fibers; which include silica core high power capability, high numerical aperture and low attenuation fibers.

Products

- ClearCurve®
- SMF-28e+™ Photonic Fiber
- RGB 400
- SMF-28e° XB
- RC SMF
- Photonic Band Gap Fibers
- Photonic Crystal Fibers
- Single Polarization Fibers
- Yb-doped Double Clad
- Polymer Clad Silica
- Reduced Cladding Fibers

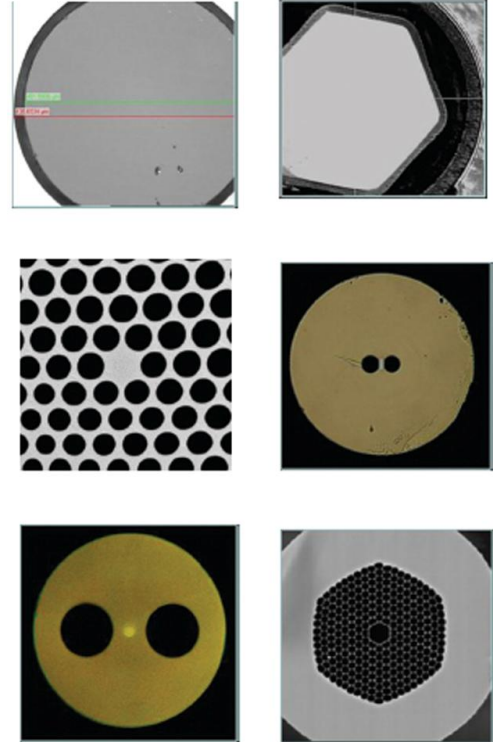


New Products

Corning has a large portfolio of development projects in optical fibers.

Product prototypes

- Nanostructures™ fibers
- All-glass High NA fibers
- Fiber laser fibers
- Spun fibers
- Side air hole assisted fibers
- Large area mode fibers
- High temperature coatings fibers
- PM fibers with low temperature sensitivity
- New design PM fibers
- Mid-IR fibers



Custom designed and custom made specialty fibers can be developed to meet your specific requirements.

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