



CORNING

## Optical Fiber Product Portfolio



### ClearCurve® Multimode Optical Fiber

ClearCurve bend-insensitive laser-optimized multimode fiber delivers superior macrobending performance and meets the high-bandwidth requirements for today's communications networks; it is designed to withstand tight bends with substantially less signal loss in challenging cabling routes. ClearCurve multimode fibers are fully standards compliant and backward compatible with the installed base.



### SMF-28® Ultra Optical Fiber

SMF-28 Ultra fiber is fully compliant to ITU-T G.652.D as well as ITU-T G.657.A1. This full-spectrum fiber has industry-leading attenuation and improved macrobend performance and is designed for use in long-haul, metro, access, and FTTH networks. SMF-28 Ultra fiber maintains full backward compatibility with traditional standard single-mode fibers, which means no trade-offs and splice performance that is the same as the installed base of Corning SMF-28e® and SMF-28e+ fibers.



### ClearCurve® Single-Mode Optical Fiber

Corning established the bend-insensitive single-mode fiber category with the introduction of ClearCurve fiber in 2007. We have continued that innovation with ClearCurve ZBL fiber, which offers virtually zero bend loss in most indoor applications.



### SMF-28® Ultra 200 Optical Fiber

SMF-28 Ultra 200 fiber is our newest single-mode fiber, featuring a reduced coating diameter of 200  $\mu\text{m}$  that provides 100 percent ITU-T G.652.D backward compatibility and optical bending resilience that surpasses the requirements of the ITU-T G.657.A1 industry standard. It's the only 200  $\mu\text{m}$  fiber that combines bend, loss, and compatibility in one convenient package.



### SMF-28e+® Optical Fiber

SMF-28e+ fiber is the industry leader in comprehensive single-mode fiber performance for metro and access networks including FTTH and CATV. This standard single-mode fiber is ITU-T G.652.D compliant and fully compatible with legacy single-mode fibers. SMF-28e+ fiber is built on our solid foundation of quality and proven performance.



### SMF-28® ULL Optical Fiber

SMF-28 ULL fiber has the lowest loss of any terrestrial-grade fiber, with a maximum attenuation of 0.17 dB/km at 1550 nm as well as low PMD. These attributes allow SMF-28 ULL fiber to achieve longer unrepeated span distances than are possible with other fibers. SMF-28 ULL fiber is fully compatible with legacy ITU G.652 single-mode fibers.



### SMF-28e+® LL Optical Fiber

SMF-28e+ LL fiber is an ITU-T G.652.D-compliant optical fiber which builds on our low-loss fiber technology to enable extended networking distances for long haul, metro, and access applications. SMF-28e+ LL optical fiber offers industry-leading specifications for attenuation and polarization mode dispersion values which provide a solid foundation for new network deployments as well as upgrades to existing networks.



### LEAF® Optical Fiber

LEAF fiber is the world's most widely deployed non-zero dispersion-shifted fiber. Across six continents, we have sold more than 30 million km of this advanced, high-performance fiber. LEAF fiber's combination of large effective area, low dispersion, and low loss enables improved performance, flexibility, and compatibility with emerging network technologies.

# Optical Fiber and Relevant Standards

## Single-Mode Optical Fiber Type ITU-T G.652

Product Name	Standard(s)	Description
SMF-28e+® fiber	ITU-T G.652.D	Full-spectrum single-mode fiber
SMF-28e+® LL fiber	ITU-T G.652.C/D	Full-spectrum single-mode fiber with low-loss technology
SMF-28® Ultra fiber SMF-28® Ultra 200 fiber	ITU-T G.652.D and ITU-T G.657.A1	Full-spectrum single-mode fiber with bend improvement and low-loss technology
SMF-28® ULL fiber	Type ITU-T G.652.B	Single-mode fiber with ultra-low-loss technology

## Non-Zero Dispersion-Shifted (NZDS) Optical Fiber Type ITU-T G.655

Product Name	Standard(s)	Description
LEAF® fiber	ITU-T G.655.D	Large effective area low dispersion NZDS fiber

## Bend-Improved Single-Mode Optical Fiber Type ITU-T G.657

Product Name	Standard(s)	Description
ClearCurve® ZBL fiber	ITU-T G.657.B3	Full-spectrum bend-insensitive single-mode fiber with virtually zero bend loss in most indoor applications
ClearCurve® LBL fiber	ITU-T G.657.A2/B2	Full-spectrum bend-insensitive single-mode fiber with low bend loss
SMF-28® Ultra fiber SMF-28® Ultra 200 fiber	ITU-T G.657.A1 and ITU-T G.652.D	Full-spectrum single-mode fiber with bend improvement and low-loss technology

## Graded-Index 50/125 µm Multimode Optical Fiber per IEC 60793-2-10

Product Name	Standard(s)	Description
ClearCurve® OM2 fiber	IEC 60793-2-10 A1a.1	Bend-insensitive laser-optimized multimode fiber for use in enterprise networks
ClearCurve® OM3 fiber	IEC 60793-2-10 A1a.2	Bend-insensitive laser-optimized multimode fiber for high speeds including 10, 40, and 100 Gb/s
ClearCurve® OM4 fiber	IEC 60793-2-10 A1a.3	Bend-insensitive laser-optimized multimode fiber for extended reach at high speeds
ClearCurve® OM5 wide band fiber	IEC 60793-2-10 A1a.4	Bend-insensitive laser-optimized multimode fiber for multi-wavelength transmission in the vicinity of 850 nm to 950 nm

## Graded-Index 62.5/125 µm Multimode Optical Fiber per IEC 60793-2-10

Product Name	Standard(s)	Description
InfiniCor® 300 fiber	IEC 60793-2-10 A1b OM1	Legacy multimode fiber for lower-speed LAN applications (up to 1 Gb/s)