



CORNING

Optical Fiber Product Portfolio



ClearCurve® Multimode Optical Fiber

ClearCurve ultra-bendable, 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 fiber is fully standards compliant and backward compatible with the installed base.



SMF-28® Ultra 200 Optical Fiber

SMF-28 Ultra 200 fiber is a single-mode fiber, featuring a reduced-coating diameter of 200 μm 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. This 200 μm fiber combines bend, loss, and compatibility in one convenient package.



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® ULL Optical Fiber

Corning's SMF-28 ULL optical fiber portfolio has the lowest-loss terrestrial-grade fibers available in the market – with millions of kilometers deployed worldwide. The newest addition, SMF-28 ULL fiber with advanced bend, is an ITU-T G.654.C-compliant fiber with best-in-class performance specifications. This evolutionary product provides ultra-low loss, with attenuation available down to 0.15 dB/km at 1550 nm, lower latency, and meets the fiber macrobend loss requirements of the ITU-T G.657.A1 standard.



SMF-28e+® Optical Fiber

SMF-28e+ fiber is a comprehensive single-mode fiber 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.



TXF® Optical Fiber

TXF fiber combines ultra-low-loss and a large effective area to allow reliable, high-data-rate transmission over longer spans – enabling the longest reach of any terrestrial-grade fiber. As a result, long-haul networks with TXF fiber can be designed more efficiently and cost effectively, reducing the need for amplification sites and signal regeneration, which is particularly important in remote territories and challenging terrains.



SMF-28® Contour Optical Fibers

Corning's SMF-28 Contour fiber portfolio offers exceptional density with improved bend resilience and 9.2-micron mode field diameter for installation efficiency. Low OD and low-loss options are available. These full-spectrum fibers are operational in regional, metro, access, and FTTH applications.



LEAF® Optical Fiber

LEAF fiber is the world's most widely deployed non-zero dispersion-shifted fiber. LEAF fiber's combination of large effective area, low dispersion, and low loss enables improved performance, flexibility, and compatibility with emerging network technologies.



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 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+ fiber.



Submarine Optical Fibers

Corning submarine optical fibers, inclusive of SMF-28® ULL S+ fiber, Vascade® EX2000 fiber, and Vascade® EX2500 fiber, provide the performance required in all undersea networks and enable submarine solutions with high-transmission capacity. All fibers in our submarine portfolio share the fundamental characteristics of superior mechanical reliability and industry-leading optical performance. Our manufacturing processes deliver both volume and quality to meet growing industry needs.

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-28® Contour Pro fiber	ITU-T G.652.D and ITU-T G.657.A2	Full-spectrum low-loss single-mode fiber with 190 µm outer diameter ideal for high-density applications
SMF-28® Contour Fit fiber	ITU-T G.652.D and ITU-T G.657.A1	Full spectrum single-mode fiber with 190 µm outer diameter ideal for high-density applications
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	ITU-T G.652.B and ITU-T G.654.C	Ultra-low-loss single-mode fiber for long-haul terrestrial applications Additional selections are available with advanced bend capability and/or 200 µm outer diameter

Cutoff Shifted Single-Mode Optical Fiber Type ITU-T G.654		
Product Name	Standard(s)	Description
SMF-28® ULL fiber	ITU-T G.654.C and ITU-T G.652.B	Ultra-low-loss single-mode fiber for long-haul terrestrial applications Additional selections are available with advanced bend capability and/or 200 µm outer diameter
SMF-28® ULL S+ fiber	ITU-T G.654.C	An ultra-low-loss fiber designed for cost-optimized submarine space division multiplexing (SDM) systems Also available in a nominal 200 µm coating diameter
TXF® fiber	ITU-T G.654.E	Ultra-low-loss and large-effective-area fiber for extended reach at ≥ 100 Gb/s
Vascade® EX2000 fiber	ITU-T G.654.D	Ultra-low-loss and large-effective-area fiber for advanced-performance submarine SDM system Also available in a smaller 200 µm coating diameter
Vascade® EX2500 optical fiber	ITU-T G.654.B/D/E	Ultra-low-loss and very large-effective-area fiber for high-capacity long-haul networks and subsea systems Also available in smaller 200 µm coating diameter

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-improved single-mode fiber with low bend loss
SMF-28® Contour Pro fiber	ITU-T G.657.A2 and ITU-T G.652.D	Full-spectrum low-loss single-mode fiber with 190 µm outer diameter ideal for high-density applications
SMF-28® Contour Fit fiber	ITU-T G.657.A1 and ITU-T G.652.D	Full spectrum single-mode fiber with 190 µm outer diameter ideal for high-density applications
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 A1-OM2	Ultra-bendable, laser-optimized multimode fiber for use in enterprise networks
ClearCurve® OM3 fiber	IEC 60793-2-10 A1-OM3	Ultra-bendable, laser-optimized multimode fiber for high speeds including 10, 40, and 100 Gb/s
ClearCurve® OM4 fiber	IEC 60793-2-10 A1-OM4	Ultra-bendable, laser-optimized multimode fiber for extended reach at high speeds
ClearCurve® OM5 wide band fiber	IEC 60793-2-10 A1-OM5	Ultra-bendable, laser-optimized multimode fiber for multiwavelength 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)