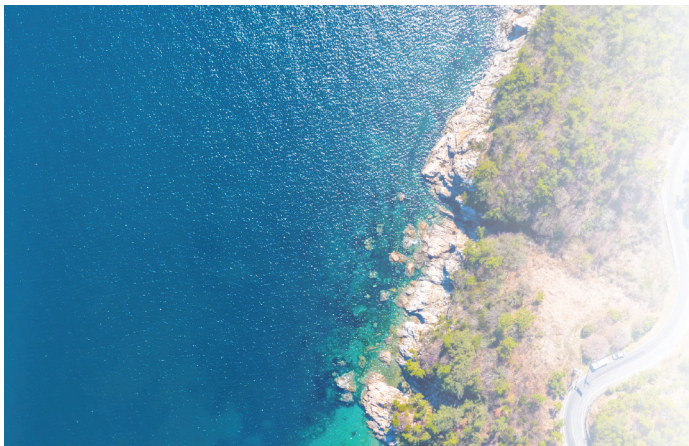


Submarine and Long-Haul Fiber Selection Guide

Advanced fibers for subsea, terrestrial backhaul, and long-distance networks combine high capacity, low latency, and best-in-class loss performance.

When Corning invented optical fiber more than 50 years ago, it began a telecommunications revolution that continues to shape the world. With a history of life-changing innovations and commitment to total quality in every aspect of our operation, we continue to deliver industry-leading products, improved attribute performance and best price-value for our customers. Our state-of-the-art manufacturing processes provide large-scale capacity to meet industry requirements and the needs of our global customers.

Submarine Fiber Portfolio



Next-generation subsea systems

seamlessly connect global cloud and content provider networks with low latency and higher capacity

Vascade® EX2000 fiber

An ultra-low-loss, large effective area fiber for submarine SDM systems, allowing for longer reach and maximizing overall capacity per cable.

SMF-28® ULL S+ fiber

For cost-optimized undersea SDM systems in or near the linear power regime, it offers industry-leading attenuation, large-scale manufacturing capacity, and options for higher density.

Traditional subsea systems

maximize capacity per fiber while providing ultra-low loss and very large effective area solutions

Vascade® EX2000 fiber

A combination of ultra-low loss and large effective area enable this fiber to be an optimal design choice for traditional subsea systems, where maximizing capacity per fiber is key.

Vascade® EX3000 fiber and Legacy Vascade® fibers

Largest A_{eff} fiber & Legacy fibers are available to support new and existing systems.



Product Name	Industry Standard	Coating Diameter	Typical 1550 nm Attenuation	Typical Effective Area
Vascade® EX2000 fiber	ITU-T G.654.D	250 & 200 μm	0.150 dB/km	115 μm^2
SMF-28® ULL S+ fiber	ITU-T G.654.C	242 & 200 μm	0.158 dB/km	82 μm^2
Vascade® EX3000 fiber	ITU-T G.654.D	250 μm	0.150 dB/km	153 μm^2

All fiber types are available with ColorPro® identification technology.

Terrestrial Fiber Portfolio



New long-haul & data center connections are more complex, seamlessly connecting to subsea systems and providing scalable capacity and higher data rates for future networks.

SMF-28® ULL fiber with advanced bend

Meeting macrobend loss requirements of the ITU-T G.657.A1 standard, this best-in-class fiber preserves the lowest loss and highest potential capacity in the installed cable with lower latency.

New ultra-long-haul backbones enable the highest possible optical transport capacity and lower latency.

TXF® fiber

Combining both ultra-low loss and large effective area, TXF fiber offers the longest reach over ≥ 800G data rates, providing cost-effective long-haul transport capacity.



Traditional long-haul systems

were built using lower dispersion fibers to satisfy the global demand for bandwidth.

SMF-28® ULL fiber

ITU-T G.652-compliant and compatible with legacy single-mode fibers, SMF-28 ULL fibers extend optical reach at very high data rates and scale to higher capacities as bandwidth demand grows.

LEAF® fiber

With industry-leading polarization mode dispersion specifications and the lowest attenuation of any non-zero dispersion-shifted fiber (NZDSF), LEAF fiber is the world's most widely deployed NZDSF.



Product Name	Industry Standard	Coating Diameter	Typical 1550 nm Attenuation	Typical Effective Area
SMF-28 ULL fiber with advanced bend	ITU-T G.652.B ITU-T G.654.C	242 & 200 μm	0.158 dB/km	82 μm ²
TXF® fiber	ITU-T G.654.E	242 μm	0.166 dB/km	125 μm ²
LEAF® fiber	ITU-T G.655.D	242 μm	0.189 dB/km	72 μm ²

All fiber types are available with ColorPro® identification technology.