

CORNING

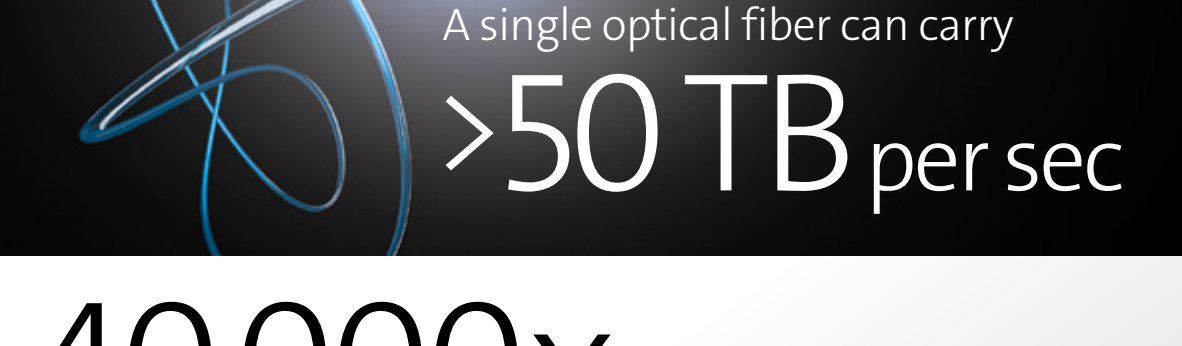
The Evolution of Optical Fiber

# Fiber today

Today, fiber goes faster and farther than anyone ever dreamed possible. Thanks to Corning innovations, optical fiber is pushing bandwidth limits and creating a more connected world.

Over 5 billion km have been deployed, enough to travel to the sun  
**33x**

A 2 mm-diameter optical fiber would be strong enough to support the weight of a car

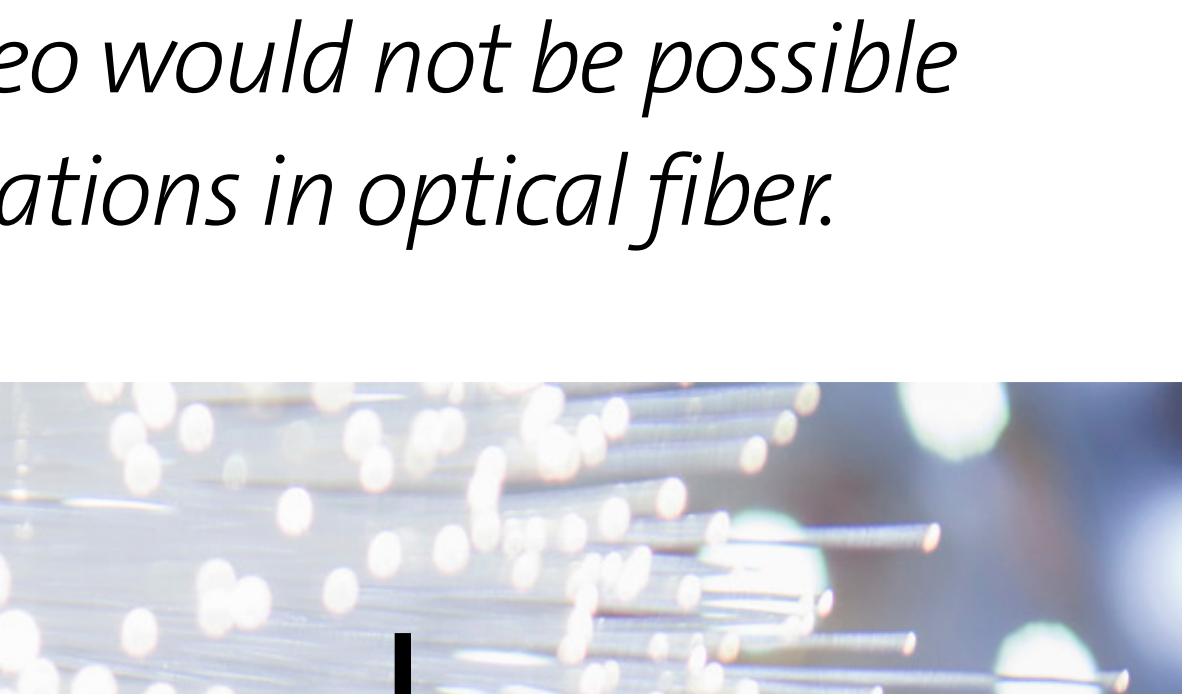


**50,000x**  
faster than a CAT 5 Ethernet connection  
and enough to support 10 million simultaneous HD video streams

A single optical fiber can carry **>50 TB** per sec

**3x**  
stronger than high-tensile steel

**40,000x**  
clearer than a diamond



**6x**  
stronger than titanium

Simply put, today's high-speed connections for Internet, voice, and video would not be possible without Corning innovations in optical fiber.

## Fiber through the years

For more than five decades, Corning optical fiber innovations have revolutionized the way the world communicates and connects.

# 1970

Three Corning scientists achieve a breakthrough by creating the first low-loss optical fiber for telecommunications.

# 1983

Corning single-mode fiber is used for the first long-haul network, connecting New York to Washington, D.C.

# 1989

Corning takes connections underwater, delivering low-loss performance for submarine networks.

# 1994

Corning receives the U.S. National Medal of Technology for life-changing and life-enhancing inventions.



# 1998

Long-haul Corning® LEAF® optical fiber helps networks connect farther and faster.

# 2007

Ultra-bendable Corning® ClearCurve® optical fiber fundamentally changes the way fiber is deployed, helping bring fiber into the home.

# 2015

Corning introduces SMF-28® Ultra 200 optical fiber, a smaller diameter fiber enabling higher density and providing the bend and low-loss attributes of SMF-28® Ultra fiber.



# 2017

Corning wins a Technology and Engineering Emmy® award from the National Academy of Television Arts and Sciences for its 1970 invention of low-loss optical fiber.

# 2017

Corning delivers its one billionth kilometer of optical fiber.

# 2018

Corning® TFX® fiber enables increased capacity in the face of the Shannon limit.

# 2020

Corning celebrates its 50<sup>th</sup> anniversary of the invention of low-loss optical fiber.

# 2021

Corning introduces SMF-28® Contour optical fiber, a first-of-its-kind combination of ITU-T G.657.A2 bend resilience, 9.2 micron mode field diameter, and industry-leading low loss.

To learn more about Corning's optical fiber innovations, visit [www.corning.com](http://www.corning.com).

