



# 60

Fiber optic cables transfer signals between computers all over the world. They are small glass strings, about the size of your hair, that can span up to 60 miles long.

These cables send light rapidly bouncing through the length of the glass changing in intensity, wavelength and polarization. The combination is then translated into data.

# MILE



# CHARLES K. KAO

THE FATHER  
OF FIBER



Charles K. Kao is responsible for the development of fiber optic cables that deliver our information. He discovered the smallest amount of light that could be lost through these cables to allow communication. Through trials of many materials, Kao and his team had realized the answer. Silica would have to be melted down and stretched into long, thin, and clear strings.

# STRING