

Manufacturers who installed optical cables in the 1970s



Overview

AT&T and its partners British Telecom and France Telecom set a target of 1988 for installing TAT-8, the first transatlantic fiber cable. More submarine fiber cables would follow. In 1982, MCI went looking for new technology to upgrade its long-distance phone network. Charles Kao of Standard Telephone and Cables (UK) reveals on how to make low loss fiber suitable for communications using an optical cladding over a pure glass core and removing impurities, plus ideally singlemode operation. (Awarded Nobel Prize in 2009) Ethernet was invented at Xerox Palo Alto. Three Corning scientists behind the company's invention of optical fiber in 1970 still had several more years of work to do. After a recession in the mid-1970s, the world economy grew vigorously in 1977 and 1978. Exploding global industries were hungry for communication – as was the U. Sumitomo Electric Industries, Ltd.



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Birth and Growth of the Fiber-Optic Communications Industry

Bell abandoned the hollow optical guide in 1972 and never put any millimeter waveguide into commercial service after completing a field test in the mid-1970s. But telephone engineers remained ...

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Fiber Optic History Timeline

How has fiber optic technology changed over the years? Learn all this and more in this timeline documenting the history and development of fiber optics for communications.

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Fiber Optics

Test systems in several countries were quickly followed by field trials with customers. GTE installed a test fiber optic cable system in Long Beach, California, in 1977. AT& T quickly followed ...

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In the history of optical fiber communication, optical fiber with transmission loss of 20 dB/km and continuous oscillation of semiconductor laser at room temperature emerged in 1970, and the year ...

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In 1970, Keck, Maurer, and Schultz at Corning Glass Works made a huge breakthrough by developing the first low-loss optical fiber. They created a glass fiber that could carry light signals over...

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NIHF Inductee Robert Maurer Invented Optical Fibers

More than 90 percent of U.S. long-distance traffic is already carried on optical fiber; over 800 million kilometers have been installed, virtually all of it using the original design of Maurer, Keck, and Schultz.

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The Development and Milestones of Optical Fibers—A Brief History

In the early 1970s, Donald Keck and Corning Corporation achieved a groundbreaking milestone by developing low-loss optical fibers. Through meticulous optimization of glass purity and ...

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Fiber Gets Real with Single-Mode Fiber Development | A ...

The U.S. government was the first to build a fiber-optic line: in 1975, it used fiber to link the computers at its North American Aerospace Defense Command (NORAD) center at Cheyenne Mountain. In 1977, ...

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Western Electric Baltimore Works

In the late 1970s, Corning Glass created the first fiber optic cable, which had 125,000 times the capacity of copper wire. Decreased demand for copper cable due to technological and market forces led to ...

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For more information, pricing, or custom solutions, please contact us:

Website: <https://ntmmgroup.co.za>

Email: sales@ntmmgroup.co.za

Phone: +27 82 471 2596

Address: Unit 7, Optic Park, 24 High-Tech Lane, Century City, Cape Town, 7441, South Africa

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