

# Comparison of Fiber Optic Cable Demand Over the Years



## Overview

Our in-depth market data report on Optical Fiber Industry. Explore verified statistics and the latest research.

## Key Takeaways

Fiber optic cable demand has grown steadily over the past decade and is projected to continue rising, driven by 5G, data centers, and broadband expansion.

## Historical Demand Trends

Between 2010 and 2020, fiber optic cable gained significant market share in telecommunications, rising from 30% to 51% of the market, largely replacing copper-based products due to higher bandwidth and lower signal loss. During this period, demand was primarily driven by backbone network upgrades and the expansion of broadband infrastructure. In the United States, fiber shipments increased steadily, with exports to Canada and Mexico contributing to overall growth.

Average prices declined slightly, supporting adoption in last-mile and in-building applications.

## Recent Market Data

By 2024-2025, the global fiber optic cable market was valued at USD 13-12.82 billion, with single-mode fiber accounting for over 70% of sales. Enterprise and data center demand surged, with data centers consuming 35% of fiber demand in 2023.



## **The Asia-**

Pacific region led the market with a 58% share in 2022, reflecting rapid infrastructure development and 5G rollout. Growth in 5G networks, IoT, and hybrid work models further accelerated demand, while installation costs fell by 25% since 2020, improving project economics.

## **Projected Demand**

The market is expected to expand at a CAGR of 7–10% over the next decade. Estimates suggest the global market could reach USD 22.74–34.

5 billion by 2031–2034. Key drivers include: 5G network deployment: High-speed, low-latency networks require fiber for backhaul and fronthaul connectivity. Data center expansion: Hyperscale and edge data centers demand high-capacity, low-latency fiber solutions.

Broadband penetration and smart city initiatives: Government-funded rural broadband programs and urban infrastructure upgrades continue to boost demand. Technological innovation: Development of high-bandwidth, durable, and low-cost fiber optic cables supports adoption across healthcare, IT, and telecommunications.

## **Summary**

Overall, fiber optic cable demand has consistently increased over the past decade, transitioning from a niche backbone solution to a critical component of global digital infrastructure. Growth is expected to accelerate further through 2035, driven by 5G, data centers, broadband expansion, and technological innovation, with single-mode fiber remaining the dominant product type.

## **Article Content**

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Fiber optic cable demand is projected to advance 3.0% per year to \$3.6 billion in 2025. Growth will moderate in comparison to that seen between 2010 and 2020, as the market for fiber

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Fiber optic cables, with their capacity to support multi-terabit transmission rates over long distances without degradation, are uniquely positioned to meet this demand.

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