

# Dark Fiber Market Set to Reach USD 18.07 Billion at 12.68% CAGR by 2032: Report by SNS Insider

*The dark fiber market is driven by increasing investments in data center infrastructure and a growing need for effective networking solutions.*

AUSTIN, TX, UNITED STATES, December 9, 2024 /EINPresswire.com/ -- Market Size & Industry Insights

As Per the SNS Insider, "The [Dark Fiber Market Size](#) was valued at USD 6.19 billion in 2023 and is expected to grow to USD 18.07 billion by 2032, at a CAGR of 12.68% over the forecast period of 2024-2032."



Dark Fiber Market Size & Growth Report

## Dark Fiber Market Growth Driven by High-Speed Connectivity, 5G, and Scalable Network Solutions

The dark fiber market is witnessing growth as the demand for high-speed, reliable internet connectivity continues to increase, driven by the adoption of cloud computing, big data, and IoT. Dark fiber remains a popular choice within organizations seeking secure, scalable, and low-cost options for the architecture of their networks. Moreover, the demand for low-latency communications complemented with the technology advancement of 5G, is one of the factors fuelling the growth of the market.

Dark fiber networks provide enterprises with the scale and flexibility to configure capacity based on their exact requirements ensuring such a service is kept affordable and attractive for end enterprises while ensuring units are available to grow making it well suited to enterprises with variable core needs or growing bandwidth demands. This raises the demand for stable, high-speed connectivity, as these networks improve data security and privacy. By leasing or purchasing dark fiber, ISPs could fill in coverage areas and enhance service. Beyond this, expanding 5G networks provides an opportunity for telecom operators to update infrastructure with equipment capable of supporting the growing demand for both data and low-latency

traffic.

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SWOT Analysis of Key Players as follows:

- AT&T Inc.
- Verizon Communications Inc.
- Zayo Group Holdings Inc.
- CenturyLink (Lumen Technologies)
- Frontier Communications Corporation
- Level 3 Communications
- Ciena Corporation
- FiberLight LLC
- Coriant (Infinera)
- Equinix Inc.
- Tata Communications Limited
- China Telecom
- NTT Communications Corp
- Windstream Communications
- Xtera Communications
- KDDI Corporation
- Southern Cross Cable Network
- Infinera Corporation
- Google Fiber and Bandwidth

Multi-Mode Fiber Dominates 2023 Market, While Single-Mode and Military Applications Set for Rapid Growth

By Type: The multi-mode fiber segment led the market in 2023 attributable to its lower cost and a more fit for shorter distance applications making it ideal for enterprise networks and data centers. Multi-mode fibers provide high bandwidth and support multiple data streams, which makes them useful in moderate data traffic environments like campus networks and local area networks (LANs).

Single-mode fiber is expected to witness the fastest CAGR from 2024-2032. Lately, for bulk production and long-haul communications, it is favoring single-mode fibers which have a higher bandwidth at extended transmission distances. With an ever-increasing need for bandwidth-intensive, low-latency networks (due to, for example, 5G), the adoption of single-mode fibers is increasing as they can carry more data over longer distances and can provide a significant capacity headroom to cope with the anticipated and future growth of the network.

By End Use: The telecom segment held the largest share in 2023, owing to the rising need for

high-speed, high-reliability internet connectivity coupled with the increasing data traffic expected by 5G and broadband expansion (in 2023). Telco organizations rely on dark fiber networks to benefit from a scalable and secure infrastructure that translates to better service offerings for telecom customers while maintaining flexibility for changing demands from consumers and enterprises.

Military & aerospace application segments are projected to grow the highest CAGR from 2024 to 2032. Next, dark fiber networks are also important in supporting healthcare which generates tons of data for telemedicine, medical imaging, and patient records. Dark fiber provides secure and high-performance communications for mission-critical operations like remote monitoring, command-and-control, and surveillance, fueling its demand in military and aerospace applications.

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#### KEY MARKET SEGMENTS:

##### By Type

- Single-mode Fiber

- Multimode Fiber

- Step-index Multimode Fiber

- Graded-index Multimode Fiber

##### By Network Type

- Metro

- Long Haul

##### By Material

- Glass

- Plastic

##### By End User

- Internet Service Providers (ISPs) and Telecommunication Industry

- BFSI Industry

- IT Enabled Services

- Military and Aerospace Industry

- Oil and Gas Industry

- Healthcare Industry

- Railway Industry

- Others (Manufacturing and Factory Automation)

North America Leads Dark Fiber Market in 2023, While Asia Pacific is Set for Rapid Growth

The dark fiber market in North America was dominant in 2023, as a result of a developed telecom network in the region, high internet penetration, and increasing demand for high-speed connectivity. North America held the largest market share owing to the widespread acceptance of 5G, cloud computing, and big data applications as enterprise and service providers required scalable, secure, and high-performance network solutions.

Asia Pacific region is projected to grow at the highest rate during the forecast period from 2024 to 2032. The demand for high-capacity fiber optic infrastructure is being driven by factors such as rapid urbanization, rapid digital transformation, and increased investment in 5G networks. This, together with the increasing data traffic, combined with the increasing need for secured communication in the healthcare, manufacturing, and telecom sectors.

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#### Recent Developments:

In September 2024, SummitIG and Neutral Networks launched SierraIG to build dark fiber infrastructure in Mexico, focusing on key data center markets. The venture aims to expand the network by 750 km with a \$50 million investment.

In March 2024, Cologix partnered with Bandwidth IG to offer dark fiber connectivity at its SV1 data center in Silicon Valley, addressing the growing need for high-capacity networks.

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