

At 9.49% CAGR, Dark Fiber Market Size is Expected to Reach USD 20,011 Million in 2027 Says Brandessence Market Research

Global Dark Fiber Market in terms of revenue was worth of USD 9,779.6 Million in 2020 and is expected to reach USD 20,011 Million in 2027

PUNE, MAHARASHTRA, INDIA, September 7, 2021 /EINPresswire.com/ -- The Global [Dark Fiber Market](#) in terms of revenue was worth of USD 9,779.6 Million in 2020 and is expected to reach USD 20,011 Million in 2027, growing at a CAGR of 9.49% from 2021 to 2027. The Global Dark Fiber Market is expected to grow at a substantial growth rate due to several driving factors.

Global Dark Fiber Market: Global Size, Trends, Competitive, Historical & Forecast Analysis, 2021-2027:

Increasing inclination towards enhanced communication and mobile data, network management and growing penetration of internet services and rising demand for the 5G network are some of the major factors driving the growth of the Global Dark Fiber Market

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Dark fiber is an unused optical fiber which is also known as unlit fiber accessible for consumption in fiber-optic communication. It is termed dark due to any light pulses are not being transmitted through it. Dark fiber initially mentioned the potential network capacity of telecommunication infrastructure. Dark fiber may be hired from a network service provider. There are several approaches to build a dark fiber network. The point-to-multipoint or point-to-



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point configurations are the most popular methods to set up whereas dense wavelength division multiplexing (DWDM), is an essential factor in the advancement and improvement of dark fiber.

The dark fiber network offers scalability, enhanced security, reduced network latency, and reliability. Dark fibers are predominately applied in ITES, telecommunication, IT, and BFSI. Moreover, dark fiber networks also have massive applications in the healthcare, automotive, and aerospace sector. Dark fiber makes it viable to establish a precise connection between two locations. The dark fiber is applied in fiber-optic communication for internet access, exclusive networking, or internet infrastructure networking. Narinder Singh Kapany was the first who invented the term fiber optics and is deemed the 'Father of Fiber Optics' and labeled him one of seven 'Unsung Heroes' in the 'Businessmen of the Century' issue in 1999.

The study provides a crucial view of the global dark fiber market by segmenting the market based on type, network type, material, end-user, and region & country level. Based upon the type, global dark fiber market is segmented into single mode fiber and multimode fiber. Based upon network type, the global dark fiber market is classified into metro and long haul. Based upon material, the global dark fiber market is segmented into glass and plastic. Based upon end-user, the global dark fiber market is categorized into BFSI, healthcare and life sciences, telecommunications and ITES, Government and public sector, manufacturing, consumer goods and retail, media and entertainment, and others.

Global Dark Fiber Market: Market Player Analysis

- Crown Castle
- Verizon Communications, Inc.
- Centurylink, Inc. (Lumen Technologies)
- GTT communications, Inc, Plc.
- Colt Technology Services Group Limited
- Windstream Communications
- Zayo Group, LLC
- Globalconnect Group
- Dark Fibre Africa (Pty) Ltd.
- Others

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Several factors are contributing to the enhancement of the growth of the global dark fiber market including technological advancements, large-scale adoption of the technology in the IT, rising growth of the telecommunication & administrative sector, growing investments, and developments in this sector. The rising demand for 5G networks is one of the leading factors estimated to drive the growth of dark fiber market across the world. 5G networks have sizable features such as greater capacity, lower latency, and improved bandwidth associated with 4G. For instance; according to Ookla, LLC, the number of 5G operators and 5G deployments globally

achieved about 18,731 and 157, correspondingly, in 2020. Also, according to Telefonaktiebolaget LM Ericsson, it was projected that there would be 5G subscriptions by the end of 2.8 billion by 2025. 5G adoption is mounting in momentum in equally the device and network fields, with all-around 150 5G devices introduced commercially in 2020. The demand for a 5G network is growing across the globe due to greater speed in the transmissions, greater capacity of remote execution, and many other aspects.

In addition, large investment in FTTX deployment is another factor fueling the growth of the dark fiber market worldwide. FTTX is nothing but fiber to the "x" which is used to define a broad range of broadband networks. FTTX refers to all types of fiber infrastructure containing FTTH, FTTP, FTTC, and FTTN. For instance; according to Telecom Lead, on September 21st, 2020, in Germany, Deutsche Glasfaser and inxio, declared plans to install fiber to roughly eight million supplementary homes by 2030, shifting the coverage from a recent 11 percent up to nearly 28 percent. Thus, the escalating investment in FTTX distribution is propelling the growth dark fiber market all over the world during the forecast period. However, the risky installations of dark fiber can hamper the overall growth of the dark fiber market in the future. In spite of that, dark fibers permit less significant telecom companies to submit services to customers and this factor is likely to create ample opportunity for to dark fiber market globally during upcoming years.

The network type segment of the global dark fiber market is dominated by Metro drive with the largest market share of 70.75% in 2020. The end-user segment of global dark fiber is dominated by CSP & ISP drive with the largest share of 35.65% in the year 2020.

In the geographical segment, North America is expected to dominate the global dark fiber market owing to many aspects such as established fiber network in the region, growing investments and technical advancement, rising adoption of 5G network, and cumulative digital infrastructure in this region. Strategic acquisition and collaboration in order to strengthen the production of dark fibers among various key players is also supporting the market growth in this region. In September 2020, CenturyLink signed a contract with the Defense Information Systems Agency to operate and maintain the dark fiber.

The company acquired American multinational telecommunications, Level 3 Communications, and Internet service provider company for providing a safer reliable fiber-rich network. Also, Zayo Group partnered with Denver Public Schools (DPS) in January 2020 and finished the implementation of a dark fiber private network around its district. These strategic acquisitions and collaborations help to increase the flexibility of the organization and higher production of products. This ultimately results in intensifying the demand for dark fiber products all over the North American region.

Europe is expected to witness a significant growth in the global dark fiber market due to intensifying expansion of cloud service, smart cities, remote applications, e-commerce, and banking sectors in this region. Increasing demand for dark fiber infrastructure is the prominent factor fueling the growth of the dark fiber market. Dark fiber is an essential investment theme in Europe that is especially needed for data centers, mobile infrastructure, and eventually, edge

computing.

For instance; the FLAP data center market is mounting at year-end 2020 from 1,843 megawatts of power capacity to achieve around 2,200 megawatts of power capacity by 2021. Likewise, 5G network densification requires wireless carriers and the broader fiber connectivity that it needs. For example; European companies which are prominent in the continent's collective infrastructure build-out consist of Fresh wave Group, Ontix, and Wireless Infrastructure Group. Stonepeak Infrastructure holds 20.1k fiber route miles (32.4k fiber route kilometers) all through Western Europe.

The regions covered in this global dark fiber market report are North America, Europe, Asia-Pacific, and Rest of the World. Based on country level, the market of global dark fiber is subdivided into U.S., Mexico, Canada, U.K., France, Germany, Italy, China, Japan, India, Southeast Asia, Middle East Asia (UAE, Saudi Arabia, Egypt) GCC, Africa, etc.

A dark fiber network is basically unused fibre optic cables with no service or traffic running on it. One of the immense advantages of dark fiber is it enables businesses to gain control of their IT estate and importantly, allows them to manage capacity and to scale as needed as a fibre is limitless. It also enables the potential for DWDM i.e. Dense Wavelength Division Multiplexing, which effectively differences the fibre into individual wavelengths across the spectrum enabling greater capacity to be achieved and it can be good for businesses with large data requirements like manufacturing, media and banks. Dark fiber offers a better level security and resilience as businesses will not share the connection with anyone else it means it is good for those that deal with sensitive information & those who require real-time information such as retail, financial services or healthcare.

Some of the Major Trends of Global Dark Fiber Market are such as:

- a) Single Mode Dark Fiber:
- b) Multimode Dark Fiber:
- c) Metro Dark Fiber:
- d) Long Haul Dark Fiber:

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Aniket Patil

Brandessence Market Research and Consulting Pvt Ltd.

+91 74474 09161

aniket@brandessenceresearch.com

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