

# **Dark Fiber Market by Single-mode Fiber, Multimode Fiber (Step-index, Graded-Index), Network Type (Metro, Long Haul), Material (Glass, Plastic), End User (Telecommunication, BFSI, Aerospace, Oil & Gas, Healthcare) & Region - Global Forecast to 2028**

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## **Abstracts**

The dark fiber market is projected to grow from USD 6.6 billion in 2023 and is projected to reach USD 11.9 billion by 2028; it is expected to grow at a CAGR of 12.5% from 2023 to 2028. Rising demand for 5G network, increasing demand for internet bandwidth, growing demand for reliable and secure network is expected to fuel the growth of the dark fiber market. However, High initial investment and regular maintenance is limiting the growth of the dark fiber market.

“BFSI end user segment of the dark fiber market to hold second largest market share during the forecast period.”

The private dark fiber network provides the control and security required for data center connectivity by financial institutions. Dark fibers are used to improve and make business continuity (BC) and disaster recovery (DR) reliable and painless. Dark fiber offers scalability to meet the growing bandwidth demands of BFSI institutions. As data requirements increase, dark fiber can support higher data rates without the need for significant infrastructure upgrades. This scalability allows BFSI organizations to adapt to evolving technology trends, increasing data volumes, and emerging applications without disruption or major investments in new network infrastructure. Dark fiber can play a crucial role in a BFSI organization's disaster recovery and business continuity strategy. By establishing redundant connections through dark fiber, institutions can create geographically diverse and independent network paths. In the event of a network failure or a disaster in one location, traffic can be seamlessly rerouted to alternative paths,

ensuring uninterrupted services and minimizing downtime. Banks and financial services companies are increasingly turning to dark fiber for their bandwidth-intensive core transport, including file sharing, large file transfers, business intelligence applications and data analysis.

“Long haul network segment to witness higher growth for dark fiber market during the forecast period.” The deployment of long-haul networks has been increasing to meet the growing demand for high-speed and reliable connectivity across different regions. The proliferation of digital services, cloud computing, streaming media, and Internet of Things (IoT) devices has led to an exponential increase in data traffic. Long-haul networks are essential for transporting this massive volume of data over long distances efficiently. The growth of IXPs has led to increased demand for long-haul networks. IXPs serve as major interconnection hubs, where multiple networks exchange traffic. To facilitate efficient exchange of data between networks located in different regions, robust long-haul networks are required. The deployment of 5G networks requires a robust backhaul infrastructure to support the increased data rates and low latency. Long-haul networks, especially fiber-optic networks, play a crucial role in providing high-capacity backhaul connections for 5G base stations. To keep up with the increasing demand, telecommunication companies, infrastructure providers, and governments are continuing to invest in expanding and upgrading long-haul networks, deploying new submarine cables, expanding fiber-optic networks, and exploring innovative technologies to enhance long-distance connectivity.

“Market for plastic material is expected to exhibit higher growth during the forecast period.” The plastic material segment is expected to exhibit a higher growth during the forecast period. Plastic fibers are used for very short-range and consumer applications, whereas glass fibers are used for short/medium-range and long-range telecommunications. Plastic fibers are immune to electromagnetic interference (EMI) and radio frequency interference (RFI). Unlike glass fibers, they do not conduct electricity, making them more resistant to external interference sources. This characteristic makes plastic fibers suitable for environments with high levels of electromagnetic noise or where grounding and shielding requirements are challenging. The primary advantage of plastic fiber over glass fiber is its robustness under bending and stretching.

“Europe to hold a significant share of the dark fiber market during the forecast period” Europe is expected to hold a significantly large share for dark fiber market during the forecast period. Europe held the second-largest share of the global dark fiber market in 2022. The rapid growth of the ISPs and Telecommunications Industry is one of the

major factors driving the market in this region. The new digital applications such as teleworking, remote medical consultation, and video on demand has accelerated the demand for dark fibers.

In the process of determining and verifying the market size for several segments and subsegments gathered through secondary research, extensive primary interviews have been conducted with key industry experts in the dark fiber market space. The break-up of primary participants for the report has been shown below: By Company Type: Tier 1 – 40%, Tier 2 – 40%, and Tier 3 – 20% By Designation: C-level Executives – 40%, Directors – 40%, and Others – 20% By Region: North America – 30%, Asia Pacific – 40%, Europe – 20%, and RoW – 10%

The report profiles key players in dark fiber market with their respective market ranking analysis. Prominent players profiled in this report include AT&T (US), Verizon Communications, Inc. (US), CenturyLink (Lumen Technologies) (US) Colt Technology Services Group Limited (UK), Comcast Corporation (US), Consolidated Communications (US), Exa Infrastructure (GTT Communications, Inc.) (US), CenturyLink, Inc. (US), NTT Communications Corporation (Japan), Verizon Communications, Inc. (US), Windstream Communications (US), and Zayo Group, LLC (US). GlobalConnect Group (Denmark), Dark Fibre Africa (Pty) Ltd (South Africa), Frontier Communications Corporation (US), Cologix (US), Crown Castle (US), Dinesh Engineers Limited (India), FirstLight (US), UFINET (Spain), Dobson Technologies (US), Sterlite Power (India), Sorrento Networks (US), Microscan (India) are among a few emerging companies in the dark fiber market.

**Research Coverage:** This research report categorizes the dark fiber market on the basis of type, network type, material, end user, and region. The report describes the major drivers, restraints, challenges, and opportunities pertaining to the dark fiber market and forecasts the same till 2028. Apart from these, the report also consists of leadership mapping and analysis of all the companies included in the dark fiber market ecosystem.

**Key Benefits of Buying the Report** The report will help the market leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall dark fiber market and the subsegments. This report will help stakeholders understand the competitive landscape and gain more insights to position their businesses better and to plan suitable go-to-market strategies. The report also helps stakeholders understand the pulse of the market and provides them with information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

Analysis of key drivers (Rising demand for 5G network, Increasing government regulatory Increasing demand for internet bandwidth, Growing demand for reliable and secure network ), restraints (Risky installation, High initial investment and regular maintenance), opportunities (Telecommunication industry to create lucrative opportunities, Need for heavy data handling in manufacturing and logistics sectors, Augmented global demand for data centers) and challenges (Lack of proper monitoring systems) influencing the growth of the dark fiber market.

**Product Development/Innovation:** Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the dark fiber market .

**Market Development:** Comprehensive information about lucrative markets – the report analyses the dark fiber market across varied regions

**Market Diversification:** Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the dark fiber market

**Competitive Assessment:** In-depth assessment of market shares, growth strategies and service offerings of leading players like AT&T (US), Verizon Communications, Inc. (US), CenturyLink (Lumen Technologies) (US), Consolidated Communications (US), EXA Infrastructure (GTT Communications, Inc.) (US), among others in the dark fiber market.

## Contents

### 1 INTRODUCTION

#### 1.1 STUDY OBJECTIVES

#### 1.2 MARKET DEFINITION

#### 1.3 MARKET SCOPE

##### 1.3.1 MARKETS COVERED

#### FIGURE 1 DARK FIBER MARKET SEGMENTATION

##### 1.3.2 INCLUSIONS AND EXCLUSIONS

##### 1.3.3 REGIONAL SCOPE

##### 1.3.4 YEARS CONSIDERED

#### 1.4 CURRENCY CONSIDERED

#### 1.5 STAKEHOLDERS

#### 1.6 RECESSION IMPACT ANALYSIS

#### FIGURE 2 GDP GROWTH PROJECTION TILL 2023 FOR MAJOR ECONOMIES

### 2 RESEARCH METHODOLOGY

#### 2.1 RESEARCH DATA

#### FIGURE 3 DARK FIBER MARKET: RESEARCH DESIGN

##### 2.1.1 SECONDARY DATA

###### 2.1.1.1 List of key secondary sources

###### 2.1.1.2 Key data from secondary sources

##### 2.1.2 PRIMARY DATA

###### 2.1.2.1 Interviews with experts

###### 2.1.2.2 Breakdown of primary interviews

##### 2.1.3 SECONDARY AND PRIMARY RESEARCH

###### 2.1.3.1 Key industry insights

#### 2.2 MARKET SIZE ESTIMATION

#### FIGURE 4 MARKET SIZE ESTIMATION METHODOLOGY: REVENUE OF MARKET PLAYERS

##### 2.2.1 BOTTOM-UP APPROACH

###### 2.2.1.1 Approach for capturing market size by bottom-up analysis (demand side)

#### FIGURE 5 MARKET SIZE ESTIMATION METHODOLOGY: BOTTOM-UP APPROACH

##### 2.2.2 TOP-DOWN APPROACH

###### 2.2.2.1 Approach for capturing market share using top-down analysis (supply side)

#### FIGURE 6 MARKET SIZE ESTIMATION METHODOLOGY: TOP-DOWN APPROACH

#### 2.3 MARKET BREAKDOWN AND DATA TRIANGULATION

## FIGURE 7 DARK FIBER MARKET: DATA TRIANGULATION

### 2.4 RESEARCH ASSUMPTIONS

### 2.5 RISK ASSESSMENT

#### 2.5.1 RECESSION IMPACT ANALYSIS

### 2.6 RESEARCH LIMITATIONS

## 3 EXECUTIVE SUMMARY

### 3.1 GROWTH RATE ASSUMPTIONS/GROWTH FORECAST

FIGURE 8 SINGLE-MODE FIBER SEGMENT TO HOLD LARGER MARKET SHARE THAN MULTIMODE FIBER SEGMENT DURING FORECAST PERIOD

FIGURE 9 LONG HAUL SEGMENT TO WITNESS HIGHER GROWTH RATE THAN METRO SEGMENT FROM 2023 TO 2028

FIGURE 10 INTERNET SERVICE PROVIDERS & TELECOMMUNICATIONS INDUSTRY TO EXHIBIT HIGHEST CAGR IN DARK FIBER MARKET FROM 2023 TO 2028

FIGURE 11 NORTH AMERICA ACCOUNTED FOR LARGEST SHARE OF DARK FIBER MARKET IN 2022

## 4 PREMIUM INSIGHTS

### 4.1 ATTRACTIVE GROWTH OPPORTUNITIES FOR PLAYERS IN DARK FIBER MARKET

FIGURE 12 RISING DEMAND FOR 5G NETWORK TO FUEL DARK FIBER MARKET

### 4.2 DARK FIBER MARKET, BY TYPE

FIGURE 13 SINGLE-MODE FIBER SEGMENT TO REGISTER HIGHER CAGR THAN MULTIMODE FIBER SEGMENT DURING FORECAST PERIOD

### 4.3 DARK FIBER MARKET, BY NETWORK TYPE

FIGURE 14 LONG HAUL SEGMENT TO CAPTURE LARGER MARKET SHARE THAN METRO SEGMENT DURING FORECAST PERIOD

### 4.4 DARK FIBER MARKET, BY MATERIAL

FIGURE 15 GLASS SEGMENT TO CAPTURE LARGER MARKET SHARE THAN PLASTIC SEGMENT DURING FORECAST PERIOD

### 4.5 DARK FIBER MARKET, BY REGION

FIGURE 16 NORTH AMERICA TO CAPTURE LARGEST MARKET SHARE BY 2028

### 4.6 DARK FIBER MARKET, BY END USER AND REGION, 2022

FIGURE 17 INTERNET SERVICE PROVIDERS & TELECOMMUNICATIONS AND CHINA SEGMENTS ACCOUNTED FOR LARGEST SHARES

### 4.7 DARK FIBER MARKET, BY COUNTRY

FIGURE 18 CHINA TO REGISTER HIGHEST CAGR DURING FORECAST PERIOD

## 5 MARKET OVERVIEW

### 5.1 INTRODUCTION

### 5.2 MARKET DYNAMICS

FIGURE 19 DARK FIBER MARKET: DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES

#### 5.2.1 DRIVERS

5.2.1.1 Rising demand for 5G network

5.2.1.2 Increasing demand for internet bandwidth

5.2.1.3 Growing demand for reliable and secure network

FIGURE 20 DARK FIBER MARKET: DRIVERS AND THEIR IMPACT

#### 5.2.2 RESTRAINTS

5.2.2.1 Risky installation

5.2.2.2 High initial investment and regular maintenance

FIGURE 21 DARK FIBER MARKET: RESTRAINTS AND THEIR IMPACT

#### 5.2.3 OPPORTUNITIES

5.2.3.1 Telecommunications industry to create lucrative opportunities

5.2.3.2 Need for heavy data handling in manufacturing and logistics

5.2.3.3 Increasing demand for data centers

FIGURE 22 GLOBAL CLOUD DATA CENTER IP TRAFFIC FROM 2015 TO 2021

FIGURE 23 DARK FIBER MARKET: OPPORTUNITIES AND THEIR IMPACT

#### 5.2.4 CHALLENGES

5.2.4.1 Lack of proper monitoring systems

FIGURE 24 DARK FIBER MARKET: CHALLENGES AND THEIR IMPACT

### 5.3 SUPPLY CHAIN ANALYSIS

FIGURE 25 DARK FIBER MARKET: SUPPLY CHAIN ANALYSIS

### 5.4 TRENDS/DISRUPTIONS IMPACTING CUSTOMER BUSINESS

5.4.1 REVENUE SHIFT AND NEW REVENUE POCKETS FOR DARK FIBER MARKET

FIGURE 26 REVENUE SHIFT AND NEW REVENUE POCKETS FOR DARK FIBER SERVICE PROVIDERS

### 5.5 ECOSYSTEM ANALYSIS

FIGURE 27 DARK FIBER MARKET: ECOSYSTEM ANALYSIS

TABLE 1 DARK FIBER MARKET: ROLE OF COMPANIES IN ECOSYSTEM

### 5.6 PORTER'S FIVE FORCES ANALYSIS

TABLE 2 DARK FIBER MARKET: PORTER'S FIVE FORCES ANALYSIS

FIGURE 28 DARK FIBER MARKET: PORTER'S FIVE FORCES ANALYSIS

5.6.1 THREAT OF NEW ENTRANTS	
5.6.2 THREAT OF SUBSTITUTES	
5.6.3 BARGAINING POWER OF SUPPLIERS	
5.6.4 BARGAINING POWER OF BUYERS	
5.6.5 INTENSITY OF COMPETITIVE RIVALRY	
5.7 CASE STUDY ANALYSIS	
5.7.1 BANDWIDTH IG AND FLEXENTIAL BROUGHT ADDITIONAL DARK FIBER CAPACITY TO OREGON DATA CENTER	
5.7.2 PAC-12 NETWORKS TEAMED UP WITH ZAYO TO BOOST ITS PRODUCTION CAPABILITY	
5.7.3 FIRSTLIGHT PROVIDED DARK FIBER SOLUTIONS TO MEET SOPHISTICATED CONNECTIVITY REQUIREMENTS	
5.7.4 TELLUS VENTURE ASSOCIATES HELPED CITY OF SAN LEANDRO DEVELOP 11-MILE FIBER LOOP	
5.7.5 FIBERLIGHT EXPANDED DARK FIBER NETWORK CAPABILITIES FOR ROSWELL	
5.7.6 FIBERLIGHT EXPANDED FIBER NETWORKING AND DEDICATED INTERNET ACCESS (DIA) IN BASTROP	
5.8 TECHNOLOGY ANALYSIS	
5.8.1 KEY TECHNOLOGIES	
5.8.1.1 Internet of Things	
5.8.1.2 Edge computing	
5.8.1.3 Artificial intelligence and machine learning	
5.8.2 RELATED TECHNOLOGIES	
5.8.2.1 Wavelength division multiplexing	
5.8.2.2 Microwave data transmission	
5.9 AVERAGE RENTAL SERVICE PRICE FOR DARK FIBER	
TABLE 3 AVERAGE RENTAL SERVICE PRICE FOR DARK FIBER	
TABLE 4 AVERAGE RENTAL SERVICE PRICE FOR DARK FIBER, BY END USER	
5.10 TRADE ANALYSIS	
TABLE 5 IMPORT DATA, BY COUNTRY, 2018–2022 (USD MILLION)	
TABLE 6 EXPORT DATA, BY COUNTRY, 2018–2022 (USD MILLION)	
5.11 PATENT ANALYSIS, 2019–2022	
TABLE 7 NUMBER OF PATENTS REGISTERED IN DARK FIBER MARKET FROM 2013 TO 2022	
FIGURE 29 DARK FIBER PATENTS PUBLISHED BETWEEN 2013 AND 2022	
FIGURE 30 DARK FIBER PATENTS PUBLISHED BETWEEN 2013 AND 2022	
TABLE 8 LIST OF MAJOR PATENT REGISTRATIONS RELATED TO DARK FIBER MARKET	

## 5.12 TARIFFS

## 5.13 REGULATORY STANDARDS

### 5.13.1 REGULATORY COMPLIANCE

### 5.13.2 STANDARDS

## 6 DARK FIBER MARKET, BY TYPE

### 6.1 INTRODUCTION

FIGURE 31 DARK FIBER MARKET, BY TYPE

FIGURE 32 SINGLE-MODE FIBER TO HOLD LARGER MARKET SHARE THAN MULTI-MODE FIBER DURING FORECAST PERIOD

TABLE 9 DARK FIBER MARKET, BY TYPE, 2019–2022 (USD MILLION)

TABLE 10 DARK FIBER MARKET, BY TYPE, 2023–2028 (USD MILLION)

### 6.2 SINGLE-MODE FIBER

6.2.1 WIDE USE IN LONG-DISTANCE DATA TRANSMISSIONS TO DRIVE MARKET

TABLE 11 SINGLE-MODE DARK FIBER MARKET, BY END USER, 2019–2022 (USD MILLION)

TABLE 12 SINGLE-MODE DARK FIBER MARKET, BY END USER, 2023–2028 (USD MILLION)

TABLE 13 SINGLE-MODE DARK FIBER MARKET, BY REGION, 2019–2022 (USD MILLION)

TABLE 14 SINGLE-MODE DARK FIBER MARKET, BY REGION, 2023–2028 (USD MILLION)

TABLE 15 SINGLE-MODE DARK FIBER MARKET FOR INTERNET SERVICE PROVIDERS & TELECOMMUNICATIONS INDUSTRY, BY REGION, 2019–2022 (USD MILLION)

TABLE 16 SINGLE-MODE DARK FIBER MARKET FOR INTERNET SERVICE PROVIDERS & TELECOMMUNICATIONS INDUSTRY, BY REGION, 2023–2028 (USD MILLION)

TABLE 17 SINGLE-MODE DARK FIBER MARKET FOR BANKING, FINANCIAL SERVICES, AND INSURANCE INDUSTRY, BY REGION, 2019–2022 (USD MILLION)

TABLE 18 SINGLE-MODE DARK FIBER MARKET FOR BANKING, FINANCIAL SERVICES, AND INSURANCE INDUSTRY, BY REGION, 2023–2028 (USD MILLION)

TABLE 19 SINGLE-MODE DARK FIBER MARKET FOR IT-ENABLED SERVICES, BY REGION, 2019–2022 (USD MILLION)

TABLE 20 SINGLE-MODE DARK FIBER MARKET FOR IT-ENABLED SERVICES, BY REGION, 2023–2028 (USD MILLION)

TABLE 21 SINGLE-MODE DARK FIBER MARKET FOR MILITARY & AEROSPACE INDUSTRY, BY REGION, 2019–2022 (USD MILLION)

TABLE 22 SINGLE-MODE DARK FIBER MARKET FOR MILITARY & AEROSPACE INDUSTRY, BY REGION, 2023–2028 (USD MILLION)

TABLE 23 SINGLE-MODE DARK FIBER MARKET FOR OIL & GAS INDUSTRY, BY REGION, 2019–2022 (USD MILLION)

TABLE 24 SINGLE-MODE DARK FIBER MARKET FOR OIL & GAS INDUSTRY, BY REGION, 2023–2028 (USD MILLION)

TABLE 25 SINGLE-MODE DARK FIBER MARKET FOR HEALTHCARE INDUSTRY, BY REGION, 2019–2022 (USD MILLION)

TABLE 26 SINGLE-MODE DARK FIBER MARKET FOR HEALTHCARE INDUSTRY, BY REGION, 2023–2028 (USD MILLION)

TABLE 27 SINGLE-MODE DARK FIBER MARKET FOR RAILWAYS INDUSTRY, BY REGION, 2019–2022 (USD MILLION)

TABLE 28 SINGLE-MODE DARK FIBER MARKET FOR RAILWAYS INDUSTRY, BY REGION, 2023–2028 (USD MILLION)

TABLE 29 SINGLE-MODE DARK FIBER MARKET FOR OTHERS, BY REGION, 2019–2022 (USD MILLION)

TABLE 30 SINGLE-MODE DARK FIBER MARKET FOR OTHERS, BY REGION, 2023–2028 (USD MILLION)

### 6.3 MULTIMODE FIBER

6.3.1 ABILITY TO PROVIDE HIGH BANDWIDTH WITH HIGH SPEED TO BOOST DEMAND

TABLE 31 MULTIMODE DARK FIBER MARKET, BY END USER, 2019–2022 (USD MILLION)

TABLE 32 MULTIMODE DARK FIBER MARKET, BY END USER, 2023–2028 (USD MILLION)

TABLE 33 MULTIMODE DARK FIBER MARKET, BY REGION, 2019–2022 (USD MILLION)

TABLE 34 MULTIMODE DARK FIBER MARKET, BY REGION, 2023–2028 (USD MILLION)

TABLE 35 MULTIMODE DARK FIBER MARKET FOR INTERNET SERVICE PROVIDERS & TELECOMMUNICATIONS INDUSTRY, BY REGION, 2019–2022 (USD MILLION)

TABLE 36 MULTIMODE DARK FIBER MARKET FOR INTERNET SERVICE PROVIDERS & TELECOMMUNICATIONS INDUSTRY, BY REGION, 2023–2028 (USD MILLION)

TABLE 37 MULTIMODE DARK FIBER MARKET FOR BANKING, FINANCIAL SERVICES, AND INSURANCE INDUSTRY, BY REGION, 2019–2022 (USD MILLION)

TABLE 38 MULTIMODE DARK FIBER MARKET FOR BANKING, FINANCIAL SERVICES, AND INSURANCE INDUSTRY, BY REGION, 2023–2028 (USD MILLION)

TABLE 39 MULTIMODE DARK FIBER MARKET FOR IT-ENABLED SERVICES, BY REGION, 2019–2022 (USD MILLION)

TABLE 40 MULTIMODE DARK FIBER MARKET FOR IT-ENABLED SERVICES, BY REGION, 2023–2028 (USD MILLION)

TABLE 41 MULTIMODE DARK FIBER MARKET FOR MILITARY & AEROSPACE INDUSTRY, BY REGION, 2019–2022 (USD MILLION)

TABLE 42 MULTIMODE DARK FIBER MARKET FOR MILITARY & AEROSPACE INDUSTRY, BY REGION, 2023–2028 (USD MILLION)

TABLE 43 MULTIMODE DARK FIBER MARKET FOR OIL & GAS INDUSTRY, BY REGION, 2019–2022 (USD MILLION)

TABLE 44 MULTIMODE DARK FIBER MARKET FOR OIL & GAS INDUSTRY, BY REGION, 2023–2028 (USD MILLION)

TABLE 45 MULTIMODE DARK FIBER MARKET FOR HEALTHCARE INDUSTRY, BY REGION, 2019–2022 (USD MILLION)

TABLE 46 MULTIMODE DARK FIBER MARKET FOR HEALTHCARE INDUSTRY, BY REGION, 2023–2028 (USD MILLION)

TABLE 47 MULTIMODE DARK FIBER MARKET FOR RAILWAYS INDUSTRY, BY REGION, 2019–2022 (USD MILLION)

TABLE 48 MULTIMODE DARK FIBER MARKET FOR RAILWAYS INDUSTRY, BY REGION, 2023–2028 (USD MILLION)

TABLE 49 MULTIMODE DARK FIBER MARKET FOR OTHERS, BY REGION, 2019–2022 (USD MILLION)

TABLE 50 MULTIMODE DARK FIBER MARKET FOR OTHERS, BY REGION, 2023–2028 (USD MILLION)

6.3.2 STEP-INDEX MULTIMODE FIBER

6.3.3 GRADED-INDEX MULTIMODE FIBER

## **7 DARK FIBER MARKET, BY NETWORK TYPE**

### **7.1 INTRODUCTION**

FIGURE 33 DARK FIBER MARKET, BY NETWORK TYPE

FIGURE 34 LONG HAUL SEGMENT TO WITNESS HIGH GROWTH DURING FORECAST PERIOD

TABLE 51 DARK FIBER MARKET, BY NETWORK TYPE, 2019–2022 (USD MILLION)

TABLE 52 DARK FIBER MARKET, BY NETWORK TYPE, 2023–2028 (USD MILLION)

### **7.2 METRO**

7.2.1 COST-EFFECTIVE CONTROL AND PHYSICAL ROUTING TO DRIVE DEMAND

### **7.3 LONG HAUL**

7.3.1 DEMAND FOR HIGH-SPEED AND RELIABLE CONNECTIVITY TO SUPPORT

## MARKET

### 8 DARK FIBER MARKET, BY MATERIAL

#### 8.1 INTRODUCTION

FIGURE 35 DARK FIBER MARKET, BY MATERIAL

FIGURE 36 GLASS SEGMENT TO CAPTURE LARGER MARKET SHARE THAN PLASTIC SEGMENT DURING FORECAST PERIOD

TABLE 53 DARK FIBER MARKET, BY MATERIAL, 2019–2022 (USD MILLION)

TABLE 54 DARK FIBER MARKET, BY MATERIAL, 2023–2028 (USD MILLION)

#### 8.2 GLASS

8.2.1 GROWING DEMAND FOR RUGGED FIBER TO PROPEL MARKET

#### 8.3 PLASTIC

8.3.1 LOWER SIGNAL ATTENUATION THAN GLASS FIBER TO AUGMENT DEMAND

### 9 DARK FIBER MARKET, BY END USER

#### 9.1 INTRODUCTION

FIGURE 37 DARK FIBER MARKET, BY END USER

FIGURE 38 INTERNET SERVICE PROVIDERS & TELECOMMUNICATIONS INDUSTRY TO REGISTER HIGHEST CAGR DURING FORECAST PERIOD

TABLE 55 DARK FIBER MARKET, BY END USER, 2019–2022 (USD MILLION)

TABLE 56 DARK FIBER MARKET, BY END USER, 2023–2028 (USD MILLION)

#### 9.2 INTERNET SERVICE PROVIDERS & TELECOMMUNICATIONS INDUSTRY

9.2.1 USE OF DARK FIBER TO REDUCE CAPITAL EXPENDITURE IN TELECOMMUNICATIONS INDUSTRY

TABLE 57 DARK FIBER MARKET FOR INTERNET SERVICE PROVIDERS & TELECOMMUNICATIONS INDUSTRY, BY TYPE, 2019–2022 (USD MILLION)

TABLE 58 DARK FIBER MARKET FOR INTERNET SERVICE PROVIDERS & TELECOMMUNICATIONS INDUSTRY, BY TYPE, 2023–2028 (USD MILLION)

TABLE 59 DARK FIBER MARKET FOR INTERNET SERVICE PROVIDERS & TELECOMMUNICATIONS INDUSTRY, BY REGION, 2019–2022 (USD MILLION)

TABLE 60 DARK FIBER MARKET FOR INTERNET SERVICE PROVIDERS & TELECOMMUNICATIONS INDUSTRY, BY REGION, 2023–2028 (USD MILLION)

#### 9.3 BANKING, FINANCIAL SERVICES, AND INSURANCE INDUSTRY

9.3.1 NEED FOR SCALABILITY TO MEET GROWING BANDWIDTH DEMAND IN FINANCIAL INSTITUTIONS TO DRIVE MARKET

TABLE 61 DARK FIBER MARKET FOR BANKING, FINANCIAL SERVICES, AND

INSURANCE INDUSTRY, BY TYPE, 2019–2022 (USD MILLION)

TABLE 62 DARK FIBER MARKET FOR BANKING, FINANCIAL SERVICES, AND  
INSURANCE INDUSTRY, BY TYPE, 2023–2028 (USD MILLION)

TABLE 63 DARK FIBER MARKET FOR BANKING, FINANCIAL SERVICES, AND  
INSURANCE INDUSTRY, BY REGION, 2019–2022 (USD MILLION)

TABLE 64 DARK FIBER MARKET FOR BANKING, FINANCIAL SERVICES, AND  
INSURANCE INDUSTRY, BY REGION, 2023–2028 (USD MILLION)

#### 9.4 IT-ENABLED SERVICES

9.4.1 ABILITY TO MINIMIZE DOWNTIME OF NETWORK TO INCREASE DEMAND  
FOR DARK FIBER

TABLE 65 DARK FIBER MARKET FOR IT-ENABLED SERVICES, BY TYPE,  
2019–2022 (USD MILLION)

TABLE 66 DARK FIBER MARKET FOR IT-ENABLED SERVICES, BY TYPE,  
2023–2028 (USD MILLION)

TABLE 67 DARK FIBER MARKET FOR IT-ENABLED SERVICES, BY REGION,  
2019–2022 (USD MILLION)

TABLE 68 DARK FIBER MARKET FOR IT-ENABLED SERVICES, BY REGION,  
2023–2028 (USD MILLION)

#### 9.5 MILITARY & AEROSPACE INDUSTRY

9.5.1 DEMAND FOR DARK FIBER TO INCREASE DUE TO ITS UNLIMITED  
BANDWIDTH AND HIGH-SECURITY FEATURES

TABLE 69 DARK FIBER MARKET FOR MILITARY & AEROSPACE INDUSTRY, BY  
TYPE, 2019–2022 (USD MILLION)

TABLE 70 DARK FIBER MARKET FOR MILITARY & AEROSPACE INDUSTRY, BY  
TYPE, 2023–2028 (USD MILLION)

TABLE 71 DARK FIBER MARKET FOR MILITARY & AEROSPACE INDUSTRY, BY  
REGION, 2019–2022 (USD MILLION)

TABLE 72 DARK FIBER MARKET FOR MILITARY & AEROSPACE INDUSTRY, BY  
REGION, 2023–2028 (USD MILLION)

#### 9.6 OIL & GAS INDUSTRY

9.6.1 ULTRA-LOW OPTICAL LOSS AND HIGH OPTICAL RETURN LOSS OF DARK  
FIBER TO DRIVE MARKET

TABLE 73 DARK FIBER MARKET FOR OIL & GAS INDUSTRY, BY TYPE, 2019–2022  
(USD MILLION)

TABLE 74 DARK FIBER MARKET FOR OIL & GAS INDUSTRY, BY TYPE, 2023–2028  
(USD MILLION)

TABLE 75 DARK FIBER MARKET FOR OIL & GAS INDUSTRY, BY REGION,  
2019–2022 (USD MILLION)

TABLE 76 DARK FIBER MARKET FOR OIL & GAS INDUSTRY, BY REGION,

2023–2028 (USD MILLION)

## 9.7 HEALTHCARE INDUSTRY

### 9.7.1 DARK FIBER AS OPTIMAL CONNECTIVITY SOLUTION TO DRIVE MARKET

TABLE 77 DARK FIBER MARKET FOR HEALTHCARE INDUSTRY, BY TYPE,

2019–2022 (USD MILLION)

TABLE 78 DARK FIBER MARKET FOR HEALTHCARE INDUSTRY, BY TYPE,

2023–2028 (USD MILLION)

TABLE 79 DARK FIBER MARKET FOR HEALTHCARE INDUSTRY, BY REGION,

2019–2022 (USD MILLION)

TABLE 80 DARK FIBER MARKET FOR HEALTHCARE INDUSTRY, BY REGION,

2023–2028 (USD MILLION)

## 9.8 RAILWAYS INDUSTRY

### 9.8.1 USE OF DARK FIBER TO MAKE OPERATIONS FUTURE-PROOF

TABLE 81 DARK FIBER MARKET FOR RAILWAYS INDUSTRY, BY TYPE, 2019–2022  
(USD MILLION)

TABLE 82 DARK FIBER MARKET FOR RAILWAYS INDUSTRY, BY TYPE, 2023–2028  
(USD MILLION)

TABLE 83 DARK FIBER MARKET FOR RAILWAYS INDUSTRY, BY REGION,  
2019–2022 (USD MILLION)

TABLE 84 DARK FIBER MARKET FOR RAILWAYS INDUSTRY, BY REGION,  
2023–2028 (USD MILLION)

## 9.9 OTHERS

TABLE 85 DARK FIBER MARKET FOR OTHERS, BY TYPE, 2019–2022 (USD  
MILLION)

TABLE 86 DARK FIBER MARKET FOR OTHERS, BY TYPE, 2023–2028 (USD  
MILLION)

TABLE 87 DARK FIBER MARKET FOR OTHERS, BY REGION, 2019–2022 (USD  
MILLION)

TABLE 88 DARK FIBER MARKET FOR OTHERS, BY REGION, 2023–2028 (USD  
MILLION)

## 10 DARK FIBER MARKET, BY REGION

### 10.1 INTRODUCTION

FIGURE 39 DARK FIBER MARKET, BY REGION

FIGURE 40 DARK FIBER MARKET IN ASIA PACIFIC TO REGISTER HIGH GROWTH  
FROM 2023 TO 2028

TABLE 89 DARK FIBER MARKET, BY REGION, 2019–2022 (USD MILLION)

TABLE 90 DARK FIBER MARKET, BY REGION, 2023–2028 (USD MILLION)

## 10.2 NORTH AMERICA

### 10.2.1 RECESSION IMPACT ANALYSIS

#### 10.2.2 US

10.2.2.1 To dominate regional market during forecast period

#### 10.2.3 CANADA

10.2.3.1 To hold significant share of regional market during forecast period

#### 10.2.4 MEXICO

10.2.4.1 Expanding telecommunications industry to drive market

## FIGURE 41 NORTH AMERICA: DARK FIBER MARKET SNAPSHOT

TABLE 91 DARK FIBER MARKET IN NORTH AMERICA, BY TYPE, 2019–2022 (USD MILLION)

TABLE 92 DARK FIBER MARKET IN NORTH AMERICA, BY TYPE, 2023–2028 (USD MILLION)

TABLE 93 DARK FIBER MARKET IN NORTH AMERICA, BY END USER, 2019–2022 (USD MILLION)

TABLE 94 DARK FIBER MARKET IN NORTH AMERICA, BY END USER, 2023–2028 (USD MILLION)

TABLE 95 DARK FIBER MARKET IN NORTH AMERICA, BY COUNTRY, 2019–2022 (USD MILLION)

TABLE 96 DARK FIBER MARKET IN NORTH AMERICA, BY COUNTRY, 2023–2028 (USD MILLION)

## 10.3 EUROPE

### 10.3.1 RECESSION IMPACT ANALYSIS

#### 10.3.2 UK

10.3.2.1 Focus on accelerating cloud adoption across public organizations to drive market

#### 10.3.3 GERMANY

10.3.3.1 Investments in network upgrades to drive market

#### 10.3.4 FRANCE

10.3.4.1 Increasing focus on 5G to contribute to market growth

#### 10.3.5 REST OF EUROPE

## FIGURE 42 EUROPE: DARK FIBER MARKET SNAPSHOT

TABLE 97 DARK FIBER MARKET IN EUROPE, BY TYPE, 2019–2022 (USD MILLION)

TABLE 98 DARK FIBER MARKET IN EUROPE, BY TYPE, 2023–2028 (USD MILLION)

TABLE 99 DARK FIBER MARKET IN EUROPE, BY END USER, 2019–2022 (USD MILLION)

TABLE 100 DARK FIBER MARKET IN EUROPE, BY END USER, 2023–2028 (USD MILLION)

TABLE 101 DARK FIBER MARKET IN EUROPE, BY COUNTRY, 2019–2022 (USD

MILLION)

TABLE 102 DARK FIBER MARKET IN EUROPE, BY COUNTRY, 2023–2028 (USD MILLION)

10.4 ASIA PACIFIC

10.4.1 RECESSION IMPACT ANALYSIS

10.4.2 CHINA

10.4.2.1 Boom in internet and telecommunications users to boost market

10.4.3 JAPAN

10.4.3.1 Investments in telecom industry to propel market

10.4.4 INDIA

10.4.4.1 Unprecedented increase in data consumption to fuel demand

10.4.5 SOUTH KOREA

10.4.5.1 Increasing focus on rolling out 5G network to drive market

10.4.6 REST OF ASIA PACIFIC

FIGURE 43 ASIA PACIFIC: DARK FIBER MARKET SNAPSHOT

TABLE 103 DARK FIBER MARKET IN ASIA PACIFIC, BY TYPE, 2019–2022 (USD MILLION)

TABLE 104 DARK FIBER MARKET IN ASIA PACIFIC, BY TYPE, 2023–2028 (USD MILLION)

TABLE 105 DARK FIBER MARKET IN ASIA PACIFIC, BY END USER, 2019–2022 (USD MILLION)

TABLE 106 DARK FIBER MARKET IN ASIA PACIFIC, BY END USER, 2023–2028 (USD MILLION)

TABLE 107 DARK FIBER MARKET IN ASIA PACIFIC, BY COUNTRY, 2019–2022 (USD MILLION)

TABLE 108 DARK FIBER MARKET IN ASIA PACIFIC, BY COUNTRY, 2023–2028 (USD MILLION)

10.5 REST OF THE WORLD (ROW)

10.5.1 RECESSION IMPACT ANALYSIS

FIGURE 44 REST OF THE WORLD: DARK FIBER MARKET SNAPSHOT

10.5.2 MIDDLE EAST & AFRICA

10.5.2.1 Increasing data center establishments to fuel demand

10.5.3 SOUTH AMERICA

10.5.3.1 To hold larger share of RoW dark fiber market than Middle East & Africa

TABLE 109 DARK FIBER MARKET IN REST OF THE WORLD, BY TYPE, 2019–2022 (USD MILLION)

TABLE 110 DARK FIBER MARKET IN REST OF THE WORLD, BY TYPE, 2023–2028 (USD MILLION)

TABLE 111 DARK FIBER MARKET IN REST OF THE WORLD, BY END USER,

2019–2022 (USD MILLION)

TABLE 112 DARK FIBER MARKET IN REST OF THE WORLD, BY END USER,  
2023–2028 (USD MILLION)

TABLE 113 DARK FIBER MARKET IN REST OF THE WORLD, BY REGION,  
2019–2022 (USD MILLION)

TABLE 114 DARK FIBER MARKET IN REST OF THE WORLD, BY REGION,  
2023–2028 (USD MILLION)

## **11 COMPETITIVE LANDSCAPE**

### **11.1 INTRODUCTION**

TABLE 115 DARK FIBER MARKET: KEY GROWTH STRATEGIES ADOPTED BY  
COMPANIES FROM 2019 TO 2022

### **11.2 REVENUE ANALYSIS OF TOP 5 MARKET PLAYERS**

FIGURE 45 DARK FIBER MARKET: REVENUE ANALYSIS OF TOP 5 PLAYERS,  
2020–2022

### **11.3 MARKET SHARE ANALYSIS (2022)**

TABLE 116 DARK FIBER MARKET: DEGREE OF COMPETITION

FIGURE 46 DARK FIBER MARKET SHARE ANALYSIS, 2022

### **11.4 COMPANY EVALUATION QUADRANT**

#### **11.4.1 STARS**

#### **11.4.2 EMERGING LEADERS**

#### **11.4.3 PERVASIVE PLAYERS**

#### **11.4.4 PARTICIPANTS**

FIGURE 47 DARK FIBER MARKET: KEY COMPANY EVALUATION QUADRANT,  
2022

### **11.5 START-UP/SME EVALUATION QUADRANT**

TABLE 117 LIST OF START-UPS/SMES IN DARK FIBER MARKET

#### **11.5.1 PROGRESSIVE COMPANIES**

#### **11.5.2 RESPONSIVE COMPANIES**

#### **11.5.3 DYNAMIC COMPANIES**

#### **11.5.4 STARTING BLOCKS**

FIGURE 48 DARK FIBER MARKET: START-UP/SME EVALUATION QUADRANT,  
2022

#### **11.5.5 DARK FIBER MARKET: COMPANY FOOTPRINT**

TABLE 118 COMPANY FOOTPRINT

TABLE 119 COMPANY END USER FOOTPRINT

TABLE 120 COMPANY REGION FOOTPRINT

### **11.6 COMPETITIVE SCENARIOS AND TRENDS**

### 11.6.1 PRODUCT LAUNCHES

TABLE 121 PRODUCT LAUNCHES, 2019–2023

### 11.6.2 DEALS

TABLE 122 DEALS, 2019–2023

### 11.6.3 OTHERS

TABLE 123 OTHERS, 2019–2023

## 12 COMPANY PROFILES

(Business Overview, Products/Solutions/Services Offered, Recent Developments, MnM view (Key strengths/Right to win, Strategic choices made, Weakness/competitive threats)\*

### 12.1 KEY COMPANIES

#### 12.1.1 AT&T

TABLE 124 AT&T: COMPANY OVERVIEW

FIGURE 49 AT&T: COMPANY SNAPSHOT

TABLE 125 AT&T: PRODUCT LAUNCHES AND DEVELOPMENTS

TABLE 126 AT&T: DEALS

TABLE 127 AT&T: OTHERS

#### 12.1.2 VERIZON COMMUNICATIONS, INC.

TABLE 128 VERIZON COMMUNICATIONS, INC.: COMPANY OVERVIEW

FIGURE 50 VERIZON COMMUNICATIONS, INC.: COMPANY SNAPSHOT

TABLE 129 VERIZON COMMUNICATIONS, INC.: PRODUCT LAUNCHES AND DEVELOPMENTS

TABLE 130 VERIZON: DEALS

#### 12.1.3 CENTURYLINK, INC. (LUMEN TECHNOLOGIES)

TABLE 131 CENTURYLINK, INC. (LUMEN TECHNOLOGIES): COMPANY OVERVIEW

FIGURE 51 CENTURYLINK, INC (LUMEN TECHNOLOGIES): COMPANY SNAPSHOT

TABLE 132 CENTURYLINK, INC. (LUMEN TECHNOLOGIES): PRODUCT LAUNCHES AND DEVELOPMENTS

TABLE 133 CENTURYLINK, INC. (LUMEN TECHNOLOGIES): DEALS

TABLE 134 CENTURYLINK, INC. (LUMEN TECHNOLOGIES): OTHERS

#### 12.1.4 CONSOLIDATED COMMUNICATIONS

TABLE 135 CONSOLIDATED COMMUNICATIONS: COMPANY OVERVIEW

FIGURE 52 CONSOLIDATED COMMUNICATIONS: COMPANY SNAPSHOT

TABLE 136 CONSOLIDATED COMMUNICATIONS: DEALS

TABLE 137 CONSOLIDATED COMMUNICATIONS: OTHERS

#### 12.1.5 EXA INFRASTRUCTURE (GTT COMMUNICATIONS)

TABLE 138 EXA INFRASTRUCTURE (GTT COMMUNICATIONS): COMPANY

## OVERVIEW

TABLE 139 EXA INFRASTRUCTURE (GTT COMMUNICATIONS): DEALS

TABLE 140 EXA INFRASTRUCTURE (GTT COMMUNICATIONS): OTHERS

### 12.1.6 COMCAST CORPORATION

TABLE 141 COMCAST CORPORATION: COMPANY OVERVIEW

FIGURE 53 COMCAST CORPORATION: COMPANY SNAPSHOT

TABLE 142 COMCAST CORPORATION: DEALS

TABLE 143 COMCAST CORPORATION: OTHERS

### 12.1.7 COLT TECHNOLOGY SERVICES GROUP LIMITED

TABLE 144 COLT TECHNOLOGY SERVICES GROUP LIMITED: COMPANY OVERVIEW

TABLE 145 COLT TECHNOLOGY SERVICES GROUP LIMITED: DEALS

TABLE 146 COLT TECHNOLOGY SERVICES GROUP LIMITED: OTHERS

### 12.1.8 NTT COMMUNICATIONS CORPORATION

TABLE 147 NTT COMMUNICATIONS CORPORATION: COMPANY OVERVIEW

FIGURE 54 NTT COMMUNICATIONS CORPORATION: COMPANY SNAPSHOT

TABLE 148 NTT COMMUNICATIONS CORPORATION: DEALS

TABLE 149 NTT COMMUNICATIONS CORPORATION: OTHERS

### 12.1.9 WINDSTREAM COMMUNICATIONS

TABLE 150 WINDSTREAM COMMUNICATIONS: COMPANY OVERVIEW

TABLE 151 WINDSTREAM COMMUNICATIONS: PRODUCT LAUNCHES AND DEVELOPMENTS

TABLE 152 WINDSTREAM COMMUNICATIONS CORPORATION: DEALS

TABLE 153 WINDSTREAM COMMUNICATIONS: OTHERS

### 12.1.10 ZAYO GROUP, LLC

TABLE 154 ZAYO GROUP, LLC: COMPANY OVERVIEW

TABLE 155 ZAYO GROUP, LLC: PRODUCT LAUNCHES AND DEVELOPMENTS

TABLE 156 ZAYO GROUP, LLC: DEALS

TABLE 157 ZAYO GROUP, LLC: OTHERS

## 12.2 OTHER PLAYERS

### 12.2.1 GLOBALCONNECT GROUP

### 12.2.2 DARK FIBRE AFRICA (PTY) LTD.

### 12.2.3 FRONTIER COMMUNICATIONS CORPORATION

### 12.2.4 COLOGIX

### 12.2.5 CROWN CASTLE

### 12.2.6 DEPL

### 12.2.7 FIRSTLIGHT

### 12.2.8 UFINET

### 12.2.9 DOBSON TECHNOLOGIES

12.2.10 STERLITE POWER

12.2.11 SORRENTO NETWORKS

12.2.12 MICROSCAN

\*Details on Business Overview, Products/Solutions/Services Offered, Recent Developments, MnM view (Key strengths/Right to win, Strategic choices made, Weakness/competitive threats)\* might not be captured in case of unlisted companies.

## **13 APPENDIX**

13.1 DISCUSSION GUIDE

13.2 KNOWLEDGESTORE: MARKETSANDMARKETS' SUBSCRIPTION PORTAL

13.3 CUSTOMIZATION OPTIONS

13.4 RELATED REPORTS

13.5 AUTHOR DETAILS

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