

# Fiber optics, being the best way of addressing problems in industrial and security applications.

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*The greatest factor that is driving the fiber optics market is the extensive growth of internet traffic across the globe.*

HYDERABAD, TELANGANA, INDIA, September 4, 2018 /EINPresswire.com/ -- [Fiber Optics](#) is expected to witness high growth in medium to long term

In the communication sector, metal based communication is being rapidly replaced by fiber optics because of its benefits associated with electrical transmission. Fiber optics, being the best way of addressing problems in industrial and security applications. These applications has been part of different sectors worldwide, leaving a large market for attention.

Despite the benefits of fiber optics, there are many drawbacks that hinder its growth, such as high initial investments, data security and absence of standardization. Fiber optics, relatively being a new technology have expensive components, such as transmitters and receivers leading to high initial investments. Factors like absence of standardization in the industry and reluctance to switch from electrical systems to fiber optics are pulling the market back from extending further.

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Today, there are innumerable miles of fiber cable being spread all over the globe. There is unbelievable amount of data transmission. The transferred data includes sensitive information, such as government data, personal, financial and medical information. It can be hacked anytime, once the intruder gets the access to cable leading to huge loss of data, thereby posing vital challenges to the market.

The increasing demand for internet communication, data volume in data centers, rapid industrialization, growing tele-communications along with the increasing number of active internet users with the need of high bandwidth and speed are pushing the fiber optics market towards growth. Again, further imposition of strict regulations and standards by the government and medical association also affect this market in terms of its survival and customers' loyalty.

Of all, the greatest factor that is driving the fiber optics market is the extensive growth of internet traffic across the globe. With the increasing up gradation of mobile devices, computers and tablets, the number of internet users is on huge rise over the last couple of years. This growth will continue to increase the requirement of high range internet bandwidths. The need for high bandwidth is favoring the continuous growth in the fiber optics market. Since fiber optic cable caters to a well-balanced, uninterrupted and fast internet connection that provides high speed data transfer with minimal obstruction, they are used widely in data networking.

The fiber optics market with its applications in different sectors has many growth opportunities. Medical, military and aerospace sectors are poised to witness as areas of rapid growth for the fiber optics industry as these sectors have an increasing demand for data security. A massive

adoption of optical devices which are communication effective is favoring the growth of the fiber optics market in these industries. Owing to the huge requirements of automated advanced maintenance and the growing importance of data in industries, such as railways, construction businesses and BFSI , fiber optics act as the solution for the market extracting its area of improvement.

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The global fiber optics market is expected to witness a rapid growth in the near future. A high demand for optical communication and sensing applications for various purposes of industries enables way for the fiber optics equipment industry growth. This market is also expected to gain extreme traction across different sectors, as fiber optics is more resistant and dependable than metal based infrastructure. The stationing of power effective and extremely miniaturized sensors is projected to contribute to the advancement of the fiber optics market in the forthcoming years.

Fiber Optics market is segmented as indicated below:

1. Fiber Optics Market – By Fiber Type

1.1. Introduction

1.2. Glass

1.3. Plastic

2. Fiber Optics Market - By Type

2.1. Introduction

2.2. Step Index

2.3. Graded Index

3. Fiber Optics Market -By Mode

3.1. Introduction

3.2. Single Mode

3.3. Multimode

4. Fiber Optics Market -By Cable

4.1. Introduction

4.2. Loose-Tube Cables

4.3. Tight-Buffer Cables

5. Fiber Optics Market- By Configurations

5.1. Introduction

5.2. Fiber Non-Imaging Configuration

5.2.1. Single Fiber

5.2.2. Light Guides

5.2.3. Plastic Fiber

5.3. Fiber Imaging Configuration

5.3.1. Flexible Image scope

5.3.2. Rigid Combiner/ Duplicators

5.4. Fused Imaging Configuration

5.4.1. Image Conduit

5.4.2. Faceplates

5.4.3. Tapers

5.4.4. Inverters

5.4.5. Fibreye

6. Fiber Optics Market -By Link Components

6.1. Introduction

- 6.2. Optical Transmitter
- 6.3. Optical Fiber/ Cable
- 6.4. Connectors
- 6.5. Optical Receiver

## 7. Fiber Optics Market -By Application

- 7.1. Engineering Applications
  - 7.1.1. Telecommunications
  - 7.1.2. Computer Networks
  - 7.1.3. Cable Television
  - 7.1.4. Delay Lines
  - 7.1.5. Others
- 7.2. Industry and Medical Applications
  - 7.2.1. Endoscopes
  - 7.2.2. Pressure, Temperature sensors
  - 7.2.3. Linking remote sensor and monitoring station
  - 7.2.4. Semiconductor Equipment
  - 7.2.5. Illumination
  - 7.2.6. Ship to shore
  - 7.2.7. Others
- 7.3. Data Transfer Tests
- 7.4. Aerospace and Avionics
- 7.5. Diagnostics and Troubleshooting
- 7.6. Education
- 7.7. Oil & Gas
- 7.8. Military
- 7.9. Others

## 8. Fiber Optics Market – By Market Entropy

## 9. Fiber Optics Market – By Geography

### Companies Cited/Interviewed/Referenced

Alcatel-Lucent Sa Limited  
Furukawa Electric Co., Ltd.  
American insulated wire Corporation  
Broadata Communications Pvt Ltd.  
California insulated wire & cable Ltd.  
Corning Inc.  
Diamond SA  
Timbercon Inc  
ROFIN  
LEONI  
Trumpf  
Schott  
Vitalcor Inc.  
Noma Corporation  
Ofs Fitel, LLC  
Optical Cable Corporation  
Precision Utilities Group  
Company 20+

### Related Reports:

#### A. Mechanical Explosion Proof Equipment Market

<https://industryarc.com/Report/155/Global-Mechanical-Non-Electrical-Explosion-Proof-Equipment-Report.html>

## B. Cable Glands Market

<https://industryarc.com/Report/15052/cable-glands-market.html>

What can you expect from the report?

The Fiber Optics Market Report is Prepared with the Main Agenda to Cover the following 20 points:

1. Market Size by Product Categories
2. Market trends
3. Manufacturer Landscape
4. Distributor Landscape
5. Pricing Analysis
6. Top 10 End user Analysis
7. Product Benchmarking
8. Product Developments
9. Mergers & Acquisition Analysis
10. Patent Analysis
11. Demand Analysis ( By Revenue & Volume )
12. Country level Analysis (15+)
13. Competitor Analysis
14. Market Shares Analysis
15. Value Chain Analysis
16. Supply Chain Analysis
17. Strategic Analysis
18. Current & Future Market Landscape Analysis
19. Opportunity Analysis
20. Revenue and Volume Analysis

Frequently Asked Questions:

Q. Does IndustryARC publish country, or application based reports in Fiber Optics Market?

Response: Yes, we do have separate reports and database as mentioned below:

1. North America Fiber Optics Market (2018-2023)
2. South America Fiber Optics Market (2018-2023)
3. Europe Fiber Optics Market (2018-2023)
4. Asia Pacific Fiber Optics Market (2018-2023)
5. Middle East and Africa Fiber Optics Market (2018-2023)
6. Plastic Fiber Optics Market (2018-2023)
7. Graded Index Fiber Optics Market (2018-2023)
8. Single Mode Fiber Optics Market (2018-2023)
9. Fused Imaging Configuration Fiber Optics Market (2018-2023)
10. Semiconductor Equipment Fiber Optics Market (2018-2023)

Q. Does IndustryARC provide customized reports and charge additionally for limited customization?

Response: Yes, we can customize the report by extracting data from our database of reports and annual subscription databases. We can provide the following free customization

1. Increase the level of data in application or end user industry.
2. Increase the number of countries in geography or product chapter.
3. Find out market shares for other smaller companies or companies which are of interest to you.
4. Company profiles can be requested based on your interest.
5. Patent analysis, pricing, product analysis, product benchmarking, value and supply chain

analysis can be requested for a country or end use segment.

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