Fiber Optic Cable Production.

Optical Fiber Cable Manufacturing Industry





Introduction

An optical fiber cable is a type of cable that has a number of optical fibers bundled together, which are normally covered in their individual protective plastic covers. Optical cables are used to transfer digital data signals in the form of light up to distances of hundreds of miles with higher throughput rates than those achievable via electrical communication cables. All optical fibers use a core of hair-like transparent silicon covered with less refractive indexed cladding to avoid light leakage to the surroundings. Due to the extreme sensitivity of the optical fiber, it is normally covered with a high-strength, lightweight protective material like Kevlar. Optical fiber cable is widely used in fiber optic communications.



Fiber optic cables find many uses in a wide variety of industries and applications. Some uses of fiber optic cables include:

• Medical

Used as light guides, imaging tools and also as lasers for surgeries

• Defense/Government

Used as hydrophones for seismic and SONAR uses, as wiring in aircraft, submarines and other vehicles and also for field networking

• Data Storage

Used for data transmission

• Telecommunications

Fiber is laid and used for transmitting and receiving purposes



• Networking

Used to connect users and servers in a variety of network settings and help increase the speed and accuracy of data transmission

• Industrial/Commercial

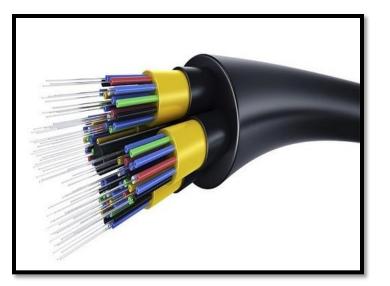
Used for imaging in hard to reach areas, as wiring where EMI is an issue, as sensory devices to make temperature, pressure and other measurements, and as wiring in automobiles and in industrial settings

• Broadcast/CATV

Broadcast/cable companies are using fiber optic cables for wiring CATV, HDTV, internet, video on-demand and other applications



Fiber optic cables are used for lighting and imaging and as sensors to measure and monitor a vast array of variables. Fiber optic cables are also used in research and development and testing across all the above mentioned industries.



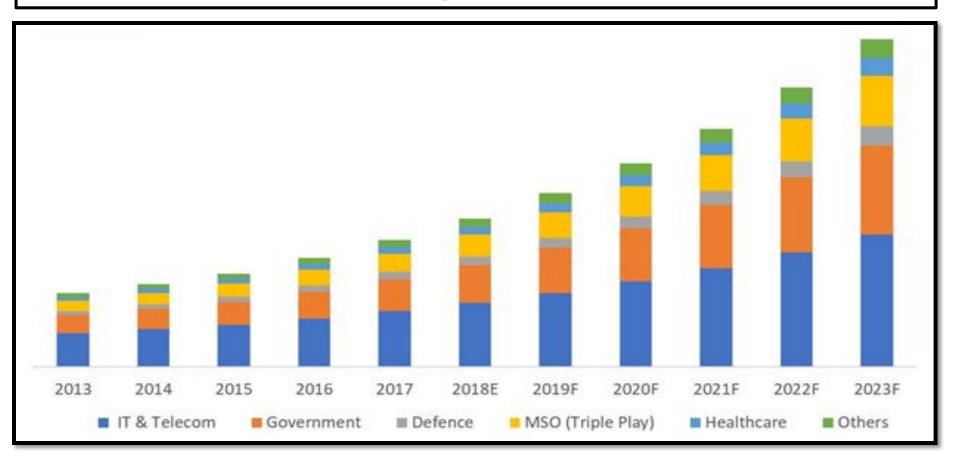


Market Outlook

India optical fiber cables (OFC) market is projected to grow at a CAGR of 17% through 2023. Growth in the market is majorly expected to be backed by rising investments in OFC network infrastructure by the Indian government to increase internet penetration across the country, which is in line with the government's initiatives such as Smart Cities Vision and Digital India. Moreover, growing demand for OFC from IT & telecom sector, rising number of mobile devices, increasing adoption of FTTH (Fiber to the Home) connectivity and surging number of data centers is anticipated to fuel optical fiber cables market in India over the coming years.



India Optical Fiber Cable Market Size, By End User, By Value, 2013-2023F





A huge number of working class population in India own high-end smartphones supporting various technologies such as Wi-Fi, 3G, etc. This class of consumers, in particular, is boosting the demand for onthe-go high speed data services. As a result, the government of India has announced various projects to build and strengthen OFC network addressing the country's increasing data transmission for requirements. In addition, digitization of cable TV network has been mandated in the country, which is further propelling the demand for OFC network. Currently, the major users of OFCs include telecom service providers, internet service providers, multiple system operators, Cable TV operators, defense agencies and PSUs among others.



The OFC market in India is projected to reach USD424 million by 2020 on account of growing adoption of smartphones, broadband services and upcoming 4G rollout. Indian consumers are increasingly shifting towards internet driven applications such as video on demand, HDTV, etc., which is boosting investments towards OFC network expansion throughout the country. In comparison to copper cables, OFC technology delivers much higher bandwidth, which has become extremely vital for supporting burgeoning data traffic.

Growth in the market is majorly expected to be backed by rising investments in OFC network infrastructure by the Indian government to increase internet penetration across the country, which is in line with the government's initiatives such as Smart Cities Vision and Digital India.



India optical fiber cables (OFC) market is expected to grow robustly due to expansion of telecom infrastructure throughout the country over the next five years. Being the second largest telecom market worldwide, India exhibits high data traffic owing to increasing penetration of smartphones and growing demand for broadband services, thereby creating significant demand for OFC installations. Consumers are increasingly shifting towards internet driven applications like HDTV, video on demand and high-speed file sharing. To address the soaring demand for high speed data transmission, the government of India along with telecom giants is investing substantial capital in upgrading the country's telecom infrastructure. The existing network of copper cables is being over hauled by using advanced fiber optic technology. All these factors are consequently providing a considerable thrust to the OFC market in India.



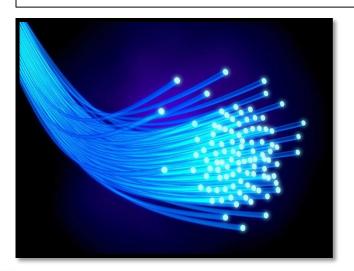
In recent past, it has become noticeable that fiber optic cables are rapidly replacing copper cables and other metal wires due to their wide range of advantages over electrical transmission. Some of the main advantages of fiber optic cables are as below:

- Higher bandwidth with less attenuation
- High information carrying capacity
- Resists electromagnetic interference
- Low signal degradation
- Light-weighted
- Smaller size
- Ease of accommodating increasing bandwidth



The global fiber optic cables market is expected to demonstrate a CAGR of 7.2% during the forecast period to reach US\$ 7.95 Bn by 2026.

The global fiber optics market is majorly driven by the pursuit of high bandwidth communication and growing opportunities in the healthcare sector along with increasing government funding in the development of network infrastructure.



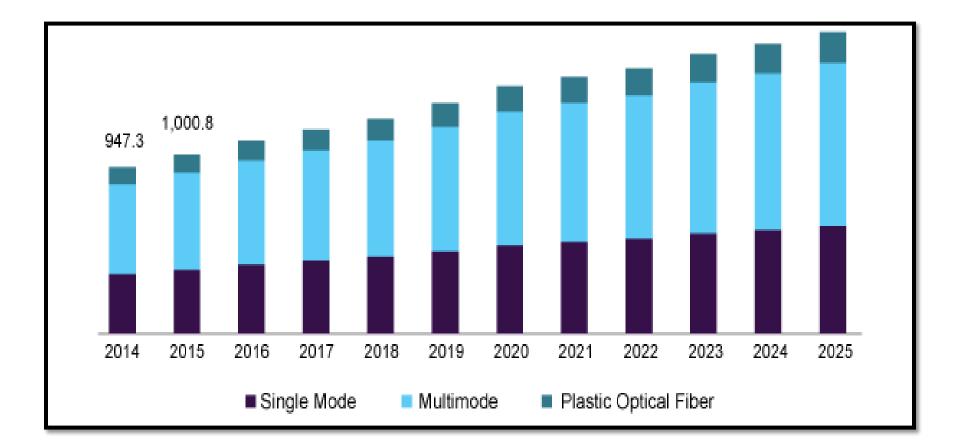


The global fiber optics market is anticipated to witness a substantial growth over the forecast period. The high demand for optical communication and sensing applications for diverse purposes provides avenues for industry growth. Furthermore, the growing demand for cost-effective, power-efficient, and high-level integration of IT infrastructure is expected to impel market demand in the next few years. However, factors such as capital investment, used in the development of the new fabrication technologies, may pose a challenge to the market demand over the forecast period.





U.S. Fiber Optics Market Size by Type, 2014-2025 (USD Million)





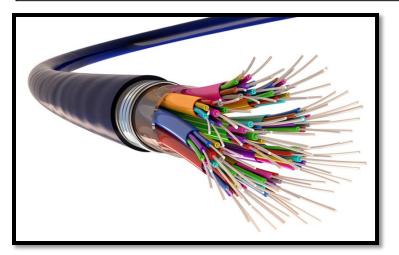
The most prominent factor driving the fiber optic cables market growth is rapidly growing internet traffic worldwide. With increasing proliferation of mobile devices, number of internet users is on rapid rise since the past few years.

By region, the fiber optic market is segmented into North America, Europe, Asia Pacific, Latin America and Middle East & Africa. North America and Europe are expected to exhibit significant growth due to high technological advancement in these regions.





In North America, fiber optics lighting is used for a number of commercials, medical, and industrial applications such as metrology, web inspection, surgical, endoscopy, semiconductor and dental curing, electronic automation, power transmission, automotive data transmission utility lighting. Fiber optics are increasingly used by defense sector as U.S. manufacturers are developing ground tactical fiber optic cable and connectivity solutions for the U.S. military.





Few Indian Major Players are as under:

- Aksh Optifibre Ltd.
- Birla Ericsson Optical Ltd.
- Optel Telecommunications Ltd.
- Spectra Punjab Pvt. Ltd.
- Sterlite Telecables Ltd.
- Tamilnadu Telecommunications Ltd.



Major Queries/Questions Answered in the Report?

- 1. What is Fiber Optic Cable Manufacturing industry ?
- 2. How has the Fiber Optic Cable Manufacturing industry performed so far and how will it perform in the coming years ?
- 3. What is the Project Feasibility of Optical Fiber Cable Manufacturing Plant ?
- 4. What are the requirements of Working Capital for setting up Optical Fiber Cable Manufacturing plant ?



5. What is the structure of the Optical Fiber Cable Manufacturing Business and who are the key/major players ?

- 6. What is the total project cost for setting up Fiber Optic Cable Manufacturing Business?
- 7. What are the operating costs for setting up Fiber Optic Cable Manufacturing plant ?
- 8. What are the machinery and equipment requirements for setting up Fiber Optic Cable Manufacturing plant ?



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- This report provides vital information on the product like it's characteristics and segmentation
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identifying the target customer group of the product



• This report helps you understand the viability of the project by disclosing details like machinery required, project costs and snapshot of other project financials

- The report provides a glimpse of government regulations applicable on the industry
- The report provides forecasts of key parameters which helps to anticipate the industry performance and make sound business decisions



Our Approach:

• Our research reports broadly cover Indian markets, present analysis,

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- The market forecasts are developed on the basis of secondary research and are cross-validated through interactions with the industry players
- We use reliable sources of information and databases. And information from such sources is processed by us and included in the report



Scope of the Report

The report titled "Market Survey cum Detailed Techno Economic Feasibility Report on Optical Fiber Cable." provides an insight into Optical Fiber Cable market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Optical Fiber Cable project. The report assesses the market sizing and growth of the Indian **Optical Fiber Cable Industry. While expanding a current business** or while venturing into new business, entrepreneurs are often faced with the dilemma of zeroing in on a suitable product/line. And before diversifying/venturing into any product, they wish to study the following aspects of the identified product:



- Good Present/Future Demand
- Export-Import Market Potential
- Raw Material & Manpower Availability
- Project Costs and Payback Period

We at NPCS, through our reliable expertise in the project consultancy and market research field, have demystified the situation by putting forward the emerging business opportunity in the Optical Fiber Cable sector in India along with its business prospects. Through this report we have identified Optical Fiber Cable project as a lucrative investment avenue.



Tags

Fiber Optical Cables, Fiber Optic Cable Production, Production of Fiber Optic Cable, Manufacture of Fibre Optic Cable, Fiber Optic Cable Manufacturing, How Fiber Optics are made, Fiber-Optic Cable Manufacturing Industry, Manufacturing Process of Fiber Optic Cable, Optical Fiber Cable Manufacture, Manufacturing of Fiber Optic Cables, Optical Fiber Production, Fiber Optic & Cable, Optical Fiber Manufacturing Process Pdf, Optical Fibre Manufacturing Process PPT, Fiber Optical Cables Manufacturing Plant, Fiber Optic Cable Manufacture, Fiber and Optical Cable Production Unit, Fiber Optic Cables Manufacturing Unit, Industrial Fiber Optic Cables Manufacture, Fiber Optic Cables Production Process, Fiber Optics Industry, Fiber-Optic Cable and Method of Manufacture, Industrial Fiber Optic Cables, Fiber Optic Cable Marking Process, Optical Fiber Cable Manufacturing Factory, Fiber Optic Cables, Electrical Cable, Fiber Optic Cables Uses, Project Report on Fiber-Optic Cable Manufacturing Industry, Detailed Project Report on Fiber-Optic Cable Manufacturing, Project Report on Fiber-Optic Cable Manufacturing, Pre-Investment Feasibility Study on Fiber-Optic Cable Manufacturing, Techno-Economic feasibility study on Fiber-Optic Cable Manufacturing, Feasibility report on Fiber Optic Cable Production, Free Project Profile on Fiber Optic Cable Production, Project profile on Fiber Optic Cable Production, Download free project profile on Fiber Optic Cable Production



Niir Project Consultancy Services (NPCS) can provide Detailed Project Report on Fiber Optic Cable Production. Optical Fiber Cable Manufacturing Industry

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The detailed project report covers all aspect of business, from analyzing the market, confirming availability of various necessities such as Manufacturing Plant, Detailed Project Report, Profile, Business Plan, Industry Trends, Market Research, Survey, Manufacturing Process, Machinery, Raw Materials, Feasibility Study, Investment Opportunities, Cost and Revenue, Plant Economics, Production Schedule,



Working Capital Requirement, uses and applications, Plant Layout, Project Financials, Process Flow Sheet, Cost of Project, Projected Balance Sheets, Profitability Ratios, Break Even Analysis. The DPR (Detailed Project Report) is formulated by highly accomplished and experienced consultants and the market research and analysis are supported by a panel of experts and digitalized data bank.

We at NPCS, through our reliable expertise in the project consultancy and market research field, have demystified the situation by putting forward the emerging business opportunity in India along with its business prospects......<u>Read more</u>



Contact us

NIIR PROJECT CONSULTANCY SERVICES

106-E, Kamla Nagar, Opp. Spark Mall,

New Delhi-110007, India.

Email: <u>npcs.ei@gmail.com</u> , <u>info@entrepreneurindia.co</u>

Tel: +91-11-23843955, 23845654, 23845886, 8800733955

Mobile: +91-9811043595

Fax: +91-11-23845886

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Our Approach

Requirement collection

Thorough analysis of the project

Economic feasibility study of the Project

Market potential survey/research

Report Compilation



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106-E, Kamla Nagar, Opp. Spark Mall,

New Delhi-110007, India.

Email: <u>npcs.ei@gmail.com</u> , <u>info@entrepreneurindia.co</u>

Tel: +91-11-23843955, 23845654, 23845886, 8800733955

Mobile: +91-9811043595

Fax: +91-11-23845886

Website : <u>www.entrepreneurindia.co</u> , <u>www.niir.org</u>

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