

India Optical Fiber Cables Market Segmented By Type (Single-Mode & Multi-Mode), By Material (Glass & Plastic), By Deployment (Underground, Underwater & Aerial), By Application (Sensing, Wiring, Transmission, Light Guide, Imaging & Others), By End-User (IT & Telecom, Government, BFSI, Healthcare, Defense & Others), By Region, Competition, Forecast and Opportunities, and, 2018-2028F

Market Report (3 business days) | 2023-09-05 | 90 pages | TechSci Research

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Report description:

India optical fiber cables market is expected to grow during the forecast period, because of the Indian government's rising investments in optical fiber cable network infrastructure, in accordance with programs such as the Smart Cities Vision and Digital India. Furthermore, rising demand for OFC from the IT (Information Technology) and telecom sectors, an increase in the number of mobile devices, increased adoption of FTTH (Fiber to the Home) connectivity, and an increase in the number of data centres are expected to fuel the optical fiber cables market in India during the forecast period.

Glass fibres are enclosed in an insulating sheath in fiber-optic cables. It aids in the transmission of high-speed data over long distances. Fiber-optic lines have greater bandwidth and can transport data over greater distances than traditional cables. Throughout the world, telephone and cable television services rely on fiber-optic connections. Each fiber optic cable contains one or more glass strands that are only a few thousandths of a millimetre thick. Every thread's core is what allows light to pass through it. The core is covered by a thick glass known as cladding to prevent signal attenuation and allows light to pass through curves in the cable.

India has a well-established backbone network that connects states and the centre. While the OFC network exists up to the block level, the backhaul network has yet to be integrated into the optical fibre cable network. Around 80-90% of tower backhaul connections continue to use microwave links, which do not support higher bandwidth capabilities. The fibre has almost limitless bandwidth potential. With increased rural penetration, spectrum scarcity is likely to worsen, and as a result, demand for OFC for backhaul and BTS (base transceiver station) access is expected to rise.

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The ability to transmit data using light pulses has enabled many world-changing innovations, thanks to the optic fiber cable technology's unparalleled progress in various industries. Various advantages of optical fibre cables, such as enormous bandwidths, low transmission loss, immunity to cross talk, electrical isolation, small size, low cost, signal security, ruggedness, and flexibility, have paved the way for the optical fiber cables market's tremendous growth.

Growing Adoption of Wireless Communication Systems is Fueling the Market Growth

The growth of the fibre optic cable market is expected to be limited by the increased adoption of wireless communication systems. Wireless service demand has risen dramatically in recent years. The Internet of Things (IoT) and other emerging technologies have accelerated the adaption of wireless communication systems. As a result of the requirements for remote working and learning, the Internet has become a necessary component of people's life. Several pandemic survivors who relocated to tier 2 and tier 3 cities recognized the importance of wireless technology. As a result, the widespread use of wireless communication systems is impeding the expansion of the fiber optic cable market.

Emergence of Wavelength Division multiplexing (WDM) is Driving Market Growth

The most recent technological advancement in fiber cables is wavelength division multiplexing (WDM). Wavelength division multiplexing is a technique for multiplexing the wavelengths of laser lights to multiplex the number of optical carrier signals through a single optical fibre channel. WDM enables communication in all directions through a fiber cable. WDMs are used on a single optical fibre to combine light signals from multiple optical fibers. This is completed by utilizing a coupler at the WDM input. The market for WDMs is anticipated to grow at the fastest rate in Asia-Pacific, with several Chinese businesses driving the charge, such as ZG Technology and Optic Network Technologies.

Market Segmentation

India optical fiber cables market is segmented into type, material, deployment, application, end-user and region. Based on type, the market is further divided into single mode & multi-mode. On the basis on material, the market is further bifurcated into glass & plastic. Based on deployment, the market is further split into underground, underwater & aerial. Based on application, the market is segmented into sensing, wiring, transmission, light guide, imaging & others. On the basis of end-user, the market is further split into IT & telecom, government, BFSI, healthcare, defense & others. On the basis of region, the market is further divided into south, west, north & east.

Company Profiles

Sterlite Technologies Limited, Himachal Futuristic Communications Ltd., Aksh OptiFiber Limited, Finolex Cables Limited, Birla Cables Limited, Vindhya Telelinks Limited, UM Cables Limited, Uniflex Cables Limited, West Coast Optilinks, Paramount Communications Limited are among the major players driving the India optical fiber cables market.

Report Scope:

In this report, the India Optical Fiber Cables market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

-□ India Optical Fiber Cables Market, By Type:

- o□ Single-Mode

- o□ Multi-Mode

-□ India Optical Fiber Cables Market, By Material:

- o□ Glass

- o□ Plastic

-□ India Optical Fiber Cables Market, By Deployment:

- o□ Underground

- o□ Underwater

- o□ Aerial

-□ India Optical Fiber Cables Market, By Application:

- o□ Sensing

- o□ Wiring

- o□ Transmission

- o□ Light Guide

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- o Imaging

- o Others

- India Optical Fiber Cables Market, By End-User:

- o IT & Telecom

- o Government

- o BFSI

- o Healthcare

- o Defense

- o Others

- India Optical Fiber Cables Market, By Region:

- o North India

- o South India

- o West India

- o East India

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the India Optical Fiber Cables market.

Available Customizations:

With the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

- Detailed analysis and profiling of additional market players (up to five).

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