

# **Global Single-mode Optical Fiber Market by Type (G.652, G.653, G.655, G.656 and G.657), Applications (Telecommunication & Networking, Data Centers, CATV, Factory Automation & Industrial Networking, Military and Others): Opportunity Analysis and Industry Forecast, 2018 - 2025**

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## **Abstracts**

Global Single-mode Optical Fiber Market Overview:

Single-mode optical fiber refers to the medium and technology that is used to transmit information from one source to another. The information is transmitted through optical cables as rapid light pulses. The receiving end of a fiber optic transmission translates the light pulses into binary values. The single-mode fiber is used for long distance installations, which range from 2 meters to 10,000 meters. It is a single glass fiber strand used to transmit a single-mode or ray of light. It features only one mode of transmission and carries higher bandwidths. Some single-mode optical fiber cables can achieve speeds of 10 Gbps over distance of 40 km. As single-mode cables require intricate calibration, their initial cost is higher as compared to their multimode counterpart. A single-mode optical fiber offers numerous advantages such as high attenuation & dispersion, higher data transmitting capabilities, usability within high-speed & large capacity networks, and others. These are used in numerous communication applications such as telecom, utility, community access television (CATV), military, and others, which drives the growth of the market.

Rise in need for fast & improved networking and network services and increase in penetration of broadband connections in developing economies are anticipated to majorly drive the growth of the global single-mode optical fiber market. Moreover, rise in

demand for optical communication and sensing applications for different purposes, high demand for optical fiber cable (OFC) in the IT & telecom sector, increase in internet penetration, and surge in adoption of fiber to the home (FTTH) connectivity boost the industry growth. However, high installation cost and increased adoption of wireless communication systems are expected to impede the market growth. Conversely, rise in government investments in fiber optic network cable (OFC network) infrastructure is expected to present major opportunities for market expansion during the forecast period. For instance, the Indian government has been investing in OFC network infrastructure to increase internet penetration across the country, which is in line with the government's initiatives such as Digital India and Smart Cities Mission.

The global single-mode optical fiber market is categorized based on type, application, and region. By type, the market is categorized into G.652, G.653, G.655, G.656, and G.657. The applications covered in the study include telecommunication & networking, CATV, data centers, factory automation & industrial networking, military, and others. Region wise, the market is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

The key players profiled in the report include CommScope, Corning Inc., FiberHome, Fujikura Ltd., Furukawa Electronic Co. Ltd., Nexans S.A., Sumitomo Electric Industries Ltd., Sterlite Technologies Ltd., The Prysmian Group, and Yangtze Optical Fiber and Cable Joint Stock Limited Company.

#### Key Benefits for Global Single-mode Optical Fiber Market:

The study provides an in-depth analysis of the global single-mode optical fiber market and current & future trends to elucidate the imminent investment pockets.

Information about key drivers, restraints, and opportunities and their impact analysis on the market is provided.

Porter's five forces analysis illustrates the potency of buyers and suppliers operating in the global single-mode optical fiber industry.

The quantitative analysis of the global single-mode optical fiber market from 2017 to 2025 is provided to determine the market potential.

## Global Single-mode Optical Fiber Key Market Segments:

### By Type

G.652

G.653

G.655

G.656

G.657

### By Applications

Telecommunication & Networking

Data Centers

CATV

Factory Automation & Industrial Networking

Military

Others

### By Region

North America

U.S.

Canada

Europe

UK

Sweden

Germany

Spain

Russia

France

Rest of Europe

Asia-Pacific

China

India

Japan

Australia

South Korea

Rest of APAC

LAMEA

Latin America

Middle East

Africa

Key Market Players:

*Global Single-mode Optical Fiber Market by Type (G.652, G.653, G.655, G.656 and G.657), Applications (Telecomm...*

CommScope

Corning Inc.

FiberHome

Fujikura Ltd.

Furukawa Electronic Co. Ltd.

Nexans S.A.

Sumitomo Electric Industries Ltd.

Sterlite Technologies Ltd.

The Prysmian Group

Yangtze Optical Fiber and Cable Joint Stock Limited Company

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