

# South Korea Fiber Optics Market Size, Share, Trends and Forecast by Cable Type, Optical Fiber Type, Application, and Region, 2026-2034

<https://marketpublishers.com/r/SF6754C253EBEN.html>

Date: July 2026

Pages: 117

Price: US\$ 2,999.00 (Single User License)

ID: SF6754C253EBEN

## Abstracts

The South Korea fiber optics market size reached USD 138.9 Million in 2025. The market is projected to reach USD 354.9 Million by 2034, exhibiting a growth rate (CAGR) of 10.66% during 2026-2034. The market is expanding due to rising investments in high-speed internet infrastructure and 5G deployment. In addition, growing demand for FTTH connectivity and cloud-based services continues to support South Korea fiber optics market share across telecom, residential, and enterprise network segments.

### SOUTH KOREA FIBER OPTICS MARKET TRENDS:

#### Rising Demand from 5G and Data Centers

The South Korea fiber optics market growth is gaining strong momentum due to the rapid expansion of 5G networks and increased reliance on high-speed internet infrastructure. With major telecom providers deploying advanced mobile networks, there is a growing need for a robust fiber optic backbone to handle the surge in data traffic. Fiber optics offer high capacity, low latency, and scalability—key features for supporting 5G base stations and backhaul networks. Additionally, the rise in data consumption from video streaming, AI applications, and cloud computing is driving the expansion of hyperscale data centers across South Korea. Enterprises are investing in fiber connectivity to meet internal network demands, while government initiatives focused on digital transformation are reinforcing this growth. In 2024, several Korean telecommunications companies upgraded their core transport networks using dense wavelength division multiplexing (DWDM) and adopted newer optical modules to increase bandwidth efficiency without adding new infrastructure. The fiber optic cable

market also saw significant orders for metropolitan area network expansions in Seoul, Busan, and Daegu. These developments, along with partnerships between telecom firms and cloud providers, are accelerating the demand for fiber installation and maintenance. As demand for ultra-fast, reliable data transmission continues, the fiber optics market in South Korea is expected to expand steadily over the coming years.

### Shift Toward Fiber-to-the-Home (FTTH)

Consumer expectations for faster, more reliable internet are accelerating the shift to fiber-to-the-home (FTTH) across South Korea. As digital activities like video conferencing, cloud gaming, 4K streaming, and smart home applications become more common, traditional copper-based broadband infrastructure is falling short. Telecommunications companies are responding by replacing outdated systems with fiber connections directly to homes, offering significantly higher speeds and lower latency. The push for FTTH is further supported by government policies promoting equitable digital access and infrastructure upgrades in underserved areas. The competitive broadband market has encouraged providers to roll out gigabit-speed FTTH services at accessible price points, spurring adoption. In 2023, more than 20 Million residential connections were running on FTTH, outnumbering DSL and coaxial-based services. Infrastructure projects were expanded into satellite towns and rural districts, supported by public-private investment programs aimed at reducing regional connectivity gaps. Equipment vendors have also reported increased orders for passive optical network (PON) components, splitters, and installation kits. In response, service providers are expanding their technician workforce to meet installation timelines. These ongoing developments are not only modernizing South Korea's broadband landscape but also strengthening the country's digital economy through improved access, speed, and network resilience—making FTTH a central driver of market activity.

### SOUTH KOREA FIBER OPTICS MARKET SEGMENTATION:

IMARC Group provides an analysis of the key trends in each segment of the market, along with forecasts at the country and regional level for 2026-2034. Our report has categorized the market based on cable type, optical fiber type, and application.

#### Cable Type Insights:

Single Mode

Multi-Mode

The report has provided a detailed breakup and analysis of the market based on the cable type. This includes single mode and multi-mode.

#### Optical Fiber Type Insights:

Glass

Plastics

The report has provided a detailed breakup and analysis of the market based on the optical fiber type. This includes glass and plastics.

#### Application Insights:

Telecom

Oil and Gas

Military and Aerospace

BFSI

Medical

Railway

Others

The report has provided a detailed breakup and analysis of the market based on the application. This includes telecom, oil and gas, military and aerospace, BFSI, medical, railway, and others.

#### Regional Insights:

Seoul Capital Area

Yeongnam (Southeastern Region)

Honam (Southwestern Region)

Hoseo (Central Region)

Others

The report has also provided a comprehensive analysis of all the major regional markets, which include Seoul Capital Area, Yeongnam (Southeastern Region), Honam (Southwestern Region), Hoseo (Central Region), and others.

#### COMPETITIVE LANDSCAPE:

The market research report has also provided a comprehensive analysis of the competitive landscape. Competitive analysis such as market structure, key player positioning, top winning strategies, competitive dashboard, and company evaluation quadrant has been covered in the report. Also, detailed profiles of all major companies have been provided.

#### KEY QUESTIONS ANSWERED IN THIS REPORT

How has the South Korea fiber optics market performed so far and how will it perform in the coming years?

What is the breakup of the South Korea fiber optics market on the basis of cable type?

What is the breakup of the South Korea fiber optics market on the basis of optical fiber type?

What is the breakup of the South Korea fiber optics market on the basis of application?

What is the breakup of the South Korea fiber optics market on the basis of region?

What are the various stages in the value chain of the South Korea fiber optics market?

What are the key driving factors and challenges in the South Korea fiber optics market?

What is the structure of the South Korea fiber optics market and who are the key players?

What is the degree of competition in the South Korea fiber optics market?

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