

Global Specialty Single-Mode Fiber for Optical Components Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Specialty Single-Mode Fiber for Optical Components market size is expected to reach \$ 1145 million by 2032, rising at a market growth of 5.5% CAGR during the forecast period (2026-2032).

Specialty single-mode fibers for optical components refer to specialized fibers designed and manufactured specifically for applications such as optical communication components, fiber lasers, fiber-optic sensors, and integrated optical devices. Unlike standard telecommunications single-mode fibers, these fibers achieve efficient coupling with optical devices, low-loss transmission, and specific optical performance characteristics through the optimization of core dimensions, refractive index profiles, numerical aperture (NA), and material composition. The upstream segment of the industry chain primarily involves raw materials for optical fiber preforms?such as high-purity quartz sand, silicon tetrachloride (SiCl₄?), and germanium tetrachloride (GeCl₄?)?as well as dopants, UV-curable coating resins, and high-precision fiber drawing equipment; key determinants of product performance include high-purity preform fabrication, refractive index control, and precision drawing processes. The midstream segment focuses on the R&D and manufacturing of these specialty fibers, utilizing processes such as preform design, fiber drawing, coating and curing, and precision testing to produce coupling fibers, polarization-maintaining (PM) single-mode fibers, small-core single-mode fibers, matching fibers, and other application-specific fibers, which are subsequently processed into various optoelectronic components. The downstream segment sees widespread application in areas such as fiber-optic couplers, pigtails/patch cords, connectors, and Erbium-Doped Fiber Amplifiers (EDFAs).

In 2025, the global sales volume of specialty single-mode fibers for optical components

is projected to reach 132 million fiber-km, with a production capacity of approximately 180 million fiber-km; the average selling price is estimated at \$5.8 per fiber-km, with an average gross margin of 25%-30%.

The global upgrading of communications infrastructure, the construction of AI computing centers, and the growth of high-end manufacturing industries provide long-term market support for specialty single-mode optical fibers used in components. As nations continue to ramp up investment in optical communications, optoelectronics, semiconductors, and laser industries, high-end optical fiber materials are increasingly becoming strategic foundational materials. Meanwhile, driven by the localization of high-speed optical modules, the domestic substitution of fiber lasers, and advancements in integrated photonics, the industry chain for specialty single-mode fibers is maturing, and the industry's technological capabilities continue to improve.

This report studies the global Specialty Single-Mode Fiber for Optical Components production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Specialty Single-Mode Fiber for Optical Components and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Specialty Single-Mode Fiber for Optical Components that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Specialty Single-Mode Fiber for Optical Components total production and demand, 2021-2032, (M Fiber-km)

Global Specialty Single-Mode Fiber for Optical Components total production value, 2021-2032, (USD Million)

Global Specialty Single-Mode Fiber for Optical Components production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (M Fiber-km), (based on production site)

Global Specialty Single-Mode Fiber for Optical Components consumption by region & country, CAGR, 2021-2032 & (M Fiber-km)

U.S. VS China: Specialty Single-Mode Fiber for Optical Components domestic production, consumption, key domestic manufacturers and share

Global Specialty Single-Mode Fiber for Optical Components production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (M Fiber-km)

Global Specialty Single-Mode Fiber for Optical Components production by Type, production, value, CAGR, 2021-2032, (USD Million) & (M Fiber-km)

Global Specialty Single-Mode Fiber for Optical Components production by Application, production, value, CAGR, 2021-2032, (USD Million) & (M Fiber-km)

This report profiles key players in the global Specialty Single-Mode Fiber for Optical Components market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Corning, Fujikura, Furukawa Electric, Prysmian Group, LEONI, Coherent, Thorlabs, Fibercore, Exail, Molex, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Specialty Single-Mode Fiber for Optical Components market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (M Fiber-km) and average price (US\$/Fiber-km) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Specialty Single-Mode Fiber for Optical Components Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Specialty Single-Mode Fiber for Optical Components Market, Segmentation by Type:

G.652.D

G.657.A

G.657.B

Global Specialty Single-Mode Fiber for Optical Components Market, Segmentation by Coating Diameter:

165 ?m

195 ?m

240 ?m

Others

Global Specialty Single-Mode Fiber for Optical Components Market, Segmentation by Doped Materials:

Erbium-Doped Single-Mode Fiber

Ytterbium-Doped Single-Mode Fiber

Erbium-Ytterbium Co-Doped Single-Mode Fiber

Global Specialty Single-Mode Fiber for Optical Components Market, Segmentation by Application:

Pigtails/Patch Cords

Connectors

Couplers

Optical Amplifiers

Others

Companies Profiled:

Corning

Fujikura

Furukawa Electric

Prysmian Group

LEONI

Coherent

Thorlabs

Fibercore

Exail

Molex

INO

YOFC

FiberHome

ZTT

Hengtong Optic-Electric

Wuhan Ruixin

Wuhan Guangxin Optoelectronics

Wuhan Changyingtong

Beiyi Xiantong

Key Questions Answered:

1. How big is the global Specialty Single-Mode Fiber for Optical Components market?
2. What is the demand of the global Specialty Single-Mode Fiber for Optical Components market?
3. What is the year over year growth of the global Specialty Single-Mode Fiber for Optical Components market?
4. What is the production and production value of the global Specialty Single-Mode Fiber for Optical Components market?
5. Who are the key producers in the global Specialty Single-Mode Fiber for Optical Components market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Specialty Single-Mode Fiber for Optical Components Introduction
- 1.2 World Specialty Single-Mode Fiber for Optical Components Supply & Forecast
 - 1.2.1 World Specialty Single-Mode Fiber for Optical Components Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Specialty Single-Mode Fiber for Optical Components Production (2021-2032)
 - 1.2.3 World Specialty Single-Mode Fiber for Optical Components Pricing Trends (2021-2032)
- 1.3 World Specialty Single-Mode Fiber for Optical Components Production by Region (Based on Production Site)
 - 1.3.1 World Specialty Single-Mode Fiber for Optical Components Production Value by Region (2021-2032)
 - 1.3.2 World Specialty Single-Mode Fiber for Optical Components Production by Region (2021-2032)
 - 1.3.3 World Specialty Single-Mode Fiber for Optical Components Average Price by Region (2021-2032)
 - 1.3.4 North America Specialty Single-Mode Fiber for Optical Components Production (2021-2032)
 - 1.3.5 Europe Specialty Single-Mode Fiber for Optical Components Production (2021-2032)
 - 1.3.6 China Specialty Single-Mode Fiber for Optical Components Production (2021-2032)
 - 1.3.7 Japan Specialty Single-Mode Fiber for Optical Components Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Specialty Single-Mode Fiber for Optical Components Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Specialty Single-Mode Fiber for Optical Components Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Specialty Single-Mode Fiber for Optical Components Demand (2021-2032)
- 2.2 World Specialty Single-Mode Fiber for Optical Components Consumption by Region
 - 2.2.1 World Specialty Single-Mode Fiber for Optical Components Consumption by Region (2021-2026)

2.2.2 World Specialty Single-Mode Fiber for Optical Components Consumption
Forecast by Region (2027-2032)

2.3 United States Specialty Single-Mode Fiber for Optical Components Consumption
(2021-2032)

2.4 China Specialty Single-Mode Fiber for Optical Components Consumption
(2021-2032)

2.5 Europe Specialty Single-Mode Fiber for Optical Components Consumption
(2021-2032)

2.6 Japan Specialty Single-Mode Fiber for Optical Components Consumption
(2021-2032)

2.7 South Korea Specialty Single-Mode Fiber for Optical Components Consumption
(2021-2032)

2.8 ASEAN Specialty Single-Mode Fiber for Optical Components Consumption
(2021-2032)

2.9 India Specialty Single-Mode Fiber for Optical Components Consumption
(2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World Specialty Single-Mode Fiber for Optical Components Production Value by
Manufacturer (2021-2026)

3.2 World Specialty Single-Mode Fiber for Optical Components Production by
Manufacturer (2021-2026)

3.3 World Specialty Single-Mode Fiber for Optical Components Average Price by
Manufacturer (2021-2026)

3.4 Specialty Single-Mode Fiber for Optical Components Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Specialty Single-Mode Fiber for Optical Components Industry Rank of
Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Specialty Single-Mode Fiber for Optical
Components in 2025

3.5.3 Global Concentration Ratios (CR8) for Specialty Single-Mode Fiber for Optical
Components in 2025

3.6 Specialty Single-Mode Fiber for Optical Components Market: Overall Company
Footprint Analysis

3.6.1 Specialty Single-Mode Fiber for Optical Components Market: Region Footprint

3.6.2 Specialty Single-Mode Fiber for Optical Components Market: Company Product
Type Footprint

3.6.3 Specialty Single-Mode Fiber for Optical Components Market: Company Product

Application Footprint

3.7 Competitive Environment

3.7.1 Historical Structure of the Industry

3.7.2 Barriers of Market Entry

3.7.3 Factors of Competition

3.8 New Entrant and Capacity Expansion Plans

3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

4.1 United States VS China: Specialty Single-Mode Fiber for Optical Components Production Value Comparison

4.1.1 United States VS China: Specialty Single-Mode Fiber for Optical Components Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Specialty Single-Mode Fiber for Optical Components Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Specialty Single-Mode Fiber for Optical Components Production Comparison

4.2.1 United States VS China: Specialty Single-Mode Fiber for Optical Components Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Specialty Single-Mode Fiber for Optical Components Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Specialty Single-Mode Fiber for Optical Components Consumption Comparison

4.3.1 United States VS China: Specialty Single-Mode Fiber for Optical Components Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Specialty Single-Mode Fiber for Optical Components Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Specialty Single-Mode Fiber for Optical Components Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Specialty Single-Mode Fiber for Optical Components Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Specialty Single-Mode Fiber for Optical Components Production Value (2021-2026)

4.4.3 United States Based Manufacturers Specialty Single-Mode Fiber for Optical Components Production (2021-2026)

4.5 China Based Specialty Single-Mode Fiber for Optical Components Manufacturers and Market Share

4.5.1 China Based Specialty Single-Mode Fiber for Optical Components

Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Specialty Single-Mode Fiber for Optical Components Production Value (2021-2026)

4.5.3 China Based Manufacturers Specialty Single-Mode Fiber for Optical Components Production (2021-2026)

4.6 Rest of World Based Specialty Single-Mode Fiber for Optical Components Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Specialty Single-Mode Fiber for Optical Components Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Specialty Single-Mode Fiber for Optical Components Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Specialty Single-Mode Fiber for Optical Components Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Specialty Single-Mode Fiber for Optical Components Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 G.652.D

5.2.2 G.657.A

5.2.3 G.657.B

5.3 Market Segment by Type

5.3.1 World Specialty Single-Mode Fiber for Optical Components Production by Type (2021-2032)

5.3.2 World Specialty Single-Mode Fiber for Optical Components Production Value by Type (2021-2032)

5.3.3 World Specialty Single-Mode Fiber for Optical Components Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY COATING DIAMETER

6.1 World Specialty Single-Mode Fiber for Optical Components Market Size Overview by Coating Diameter: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Coating Diameter

6.2.1 165 ?m

6.2.2 195 ?m

6.2.3 240 ?m

6.2.4 Others

6.3 Market Segment by Coating Diameter

6.3.1 World Specialty Single-Mode Fiber for Optical Components Production by Coating Diameter (2021-2032)

6.3.2 World Specialty Single-Mode Fiber for Optical Components Production Value by Coating Diameter (2021-2032)

6.3.3 World Specialty Single-Mode Fiber for Optical Components Average Price by Coating Diameter (2021-2032)

7 MARKET ANALYSIS BY DOPED MATERIALS

7.1 World Specialty Single-Mode Fiber for Optical Components Market Size Overview by Doped Materials: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Doped Materials

7.2.1 Erbium-Doped Single-Mode Fiber

7.2.2 Ytterbium-Doped Single-Mode Fiber

7.2.3 Erbium-Ytterbium Co-Doped Single-Mode Fiber

7.3 Market Segment by Doped Materials

7.3.1 World Specialty Single-Mode Fiber for Optical Components Production by Doped Materials (2021-2032)

7.3.2 World Specialty Single-Mode Fiber for Optical Components Production Value by Doped Materials (2021-2032)

7.3.3 World Specialty Single-Mode Fiber for Optical Components Average Price by Doped Materials (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Specialty Single-Mode Fiber for Optical Components Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Pigtails/Patch Cords

8.2.2 Connectors

8.2.3 Couplers

8.2.4 Optical Amplifiers

8.2.5 Others

8.3 Market Segment by Application

8.3.1 World Specialty Single-Mode Fiber for Optical Components Production by Application (2021-2032)

8.3.2 World Specialty Single-Mode Fiber for Optical Components Production Value by Application (2021-2032)

8.3.3 World Specialty Single-Mode Fiber for Optical Components Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Corning

9.1.1 Corning Details

9.1.2 Corning Major Business

9.1.3 Corning Specialty Single-Mode Fiber for Optical Components Product and Services

9.1.4 Corning Specialty Single-Mode Fiber for Optical Components Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Corning Recent Developments/Updates

9.1.6 Corning Competitive Strengths & Weaknesses

9.2 Fujikura

9.2.1 Fujikura Details

9.2.2 Fujikura Major Business

9.2.3 Fujikura Specialty Single-Mode Fiber for Optical Components Product and Services

9.2.4 Fujikura Specialty Single-Mode Fiber for Optical Components Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Fujikura Recent Developments/Updates

9.2.6 Fujikura Competitive Strengths & Weaknesses

9.3 Furukawa Electric

9.3.1 Furukawa Electric Details

9.3.2 Furukawa Electric Major Business

9.3.3 Furukawa Electric Specialty Single-Mode Fiber for Optical Components Product and Services

9.3.4 Furukawa Electric Specialty Single-Mode Fiber for Optical Components Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Furukawa Electric Recent Developments/Updates

9.3.6 Furukawa Electric Competitive Strengths & Weaknesses

9.4 Prysmian Group

9.4.1 Prysmian Group Details

9.4.2 Prysmian Group Major Business

9.4.3 Prysmian Group Specialty Single-Mode Fiber for Optical Components Product and Services

9.4.4 Prysmian Group Specialty Single-Mode Fiber for Optical Components Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Prysmian Group Recent Developments/Updates

9.4.6 Prysmian Group Competitive Strengths & Weaknesses

9.5 LEONI

9.5.1 LEONI Details

9.5.2 LEONI Major Business

9.5.3 LEONI Specialty Single-Mode Fiber for Optical Components Product and Services

9.5.4 LEONI Specialty Single-Mode Fiber for Optical Components Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 LEONI Recent Developments/Updates

9.5.6 LEONI Competitive Strengths & Weaknesses

9.6 Coherent

9.6.1 Coherent Details

9.6.2 Coherent Major Business

9.6.3 Coherent Specialty Single-Mode Fiber for Optical Components Product and Services

9.6.4 Coherent Specialty Single-Mode Fiber for Optical Components Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 Coherent Recent Developments/Updates

9.6.6 Coherent Competitive Strengths & Weaknesses

9.7 Thorlabs

9.7.1 Thorlabs Details

9.7.2 Thorlabs Major Business

9.7.3 Thorlabs Specialty Single-Mode Fiber for Optical Components Product and Services

9.7.4 Thorlabs Specialty Single-Mode Fiber for Optical Components Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 Thorlabs Recent Developments/Updates

9.7.6 Thorlabs Competitive Strengths & Weaknesses

9.8 Fibercore

9.8.1 Fibercore Details

9.8.2 Fibercore Major Business

9.8.3 Fibercore Specialty Single-Mode Fiber for Optical Components Product and Services

9.8.4 Fibercore Specialty Single-Mode Fiber for Optical Components Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 Fibercore Recent Developments/Updates

9.8.6 Fibercore Competitive Strengths & Weaknesses

9.9 Exail

- 9.9.1 Exail Details
- 9.9.2 Exail Major Business
- 9.9.3 Exail Specialty Single-Mode Fiber for Optical Components Product and Services
- 9.9.4 Exail Specialty Single-Mode Fiber for Optical Components Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.9.5 Exail Recent Developments/Updates
- 9.9.6 Exail Competitive Strengths & Weaknesses
- 9.10 Molex
 - 9.10.1 Molex Details
 - 9.10.2 Molex Major Business
 - 9.10.3 Molex Specialty Single-Mode Fiber for Optical Components Product and Services
 - 9.10.4 Molex Specialty Single-Mode Fiber for Optical Components Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.10.5 Molex Recent Developments/Updates
 - 9.10.6 Molex Competitive Strengths & Weaknesses
- 9.11 INO
 - 9.11.1 INO Details
 - 9.11.2 INO Major Business
 - 9.11.3 INO Specialty Single-Mode Fiber for Optical Components Product and Services
 - 9.11.4 INO Specialty Single-Mode Fiber for Optical Components Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.11.5 INO Recent Developments/Updates
 - 9.11.6 INO Competitive Strengths & Weaknesses
- 9.12 YOFC
 - 9.12.1 YOFC Details
 - 9.12.2 YOFC Major Business
 - 9.12.3 YOFC Specialty Single-Mode Fiber for Optical Components Product and Services
 - 9.12.4 YOFC Specialty Single-Mode Fiber for Optical Components Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.12.5 YOFC Recent Developments/Updates
 - 9.12.6 YOFC Competitive Strengths & Weaknesses
- 9.13 FiberHome
 - 9.13.1 FiberHome Details
 - 9.13.2 FiberHome Major Business
 - 9.13.3 FiberHome Specialty Single-Mode Fiber for Optical Components Product and Services
 - 9.13.4 FiberHome Specialty Single-Mode Fiber for Optical Components Production,

Price, Value, Gross Margin and Market Share (2021-2026)

9.13.5 FiberHome Recent Developments/Updates

9.13.6 FiberHome Competitive Strengths & Weaknesses

9.14 ZTT

9.14.1 ZTT Details

9.14.2 ZTT Major Business

9.14.3 ZTT Specialty Single-Mode Fiber for Optical Components Product and Services

9.14.4 ZTT Specialty Single-Mode Fiber for Optical Components Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.14.5 ZTT Recent Developments/Updates

9.14.6 ZTT Competitive Strengths & Weaknesses

9.15 Hengtong Optic-Electric

9.15.1 Hengtong Optic-Electric Details

9.15.2 Hengtong Optic-Electric Major Business

9.15.3 Hengtong Optic-Electric Specialty Single-Mode Fiber for Optical Components Product and Services

9.15.4 Hengtong Optic-Electric Specialty Single-Mode Fiber for Optical Components Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.15.5 Hengtong Optic-Electric Recent Developments/Updates

9.15.6 Hengtong Optic-Electric Competitive Strengths & Weaknesses

9.16 Wuhan Ruixin

9.16.1 Wuhan Ruixin Details

9.16.2 Wuhan Ruixin Major Business

9.16.3 Wuhan Ruixin Specialty Single-Mode Fiber for Optical Components Product and Services

9.16.4 Wuhan Ruixin Specialty Single-Mode Fiber for Optical Components Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.16.5 Wuhan Ruixin Recent Developments/Updates

9.16.6 Wuhan Ruixin Competitive Strengths & Weaknesses

9.17 Wuhan Guangxin Optoelectronics

9.17.1 Wuhan Guangxin Optoelectronics Details

9.17.2 Wuhan Guangxin Optoelectronics Major Business

9.17.3 Wuhan Guangxin Optoelectronics Specialty Single-Mode Fiber for Optical Components Product and Services

9.17.4 Wuhan Guangxin Optoelectronics Specialty Single-Mode Fiber for Optical Components Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.17.5 Wuhan Guangxin Optoelectronics Recent Developments/Updates

9.17.6 Wuhan Guangxin Optoelectronics Competitive Strengths & Weaknesses

9.18 Wuhan Changyintong

- 9.18.1 Wuhan Changyingtong Details
- 9.18.2 Wuhan Changyingtong Major Business
- 9.18.3 Wuhan Changyingtong Specialty Single-Mode Fiber for Optical Components Product and Services
- 9.18.4 Wuhan Changyingtong Specialty Single-Mode Fiber for Optical Components Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.18.5 Wuhan Changyingtong Recent Developments/Updates
- 9.18.6 Wuhan Changyingtong Competitive Strengths & Weaknesses
- 9.19 Beiyi Xiantong
 - 9.19.1 Beiyi Xiantong Details
 - 9.19.2 Beiyi Xiantong Major Business
 - 9.19.3 Beiyi Xiantong Specialty Single-Mode Fiber for Optical Components Product and Services
 - 9.19.4 Beiyi Xiantong Specialty Single-Mode Fiber for Optical Components Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.19.5 Beiyi Xiantong Recent Developments/Updates
 - 9.19.6 Beiyi Xiantong Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Specialty Single-Mode Fiber for Optical Components Industry Chain
- 10.2 Specialty Single-Mode Fiber for Optical Components Upstream Analysis
 - 10.2.1 Specialty Single-Mode Fiber for Optical Components Core Raw Materials
 - 10.2.2 Main Manufacturers of Specialty Single-Mode Fiber for Optical Components Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Specialty Single-Mode Fiber for Optical Components Production Mode
- 10.6 Specialty Single-Mode Fiber for Optical Components Procurement Model
- 10.7 Specialty Single-Mode Fiber for Optical Components Industry Sales Model and Sales Channels
 - 10.7.1 Specialty Single-Mode Fiber for Optical Components Sales Model
 - 10.7.2 Specialty Single-Mode Fiber for Optical Components Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

- 12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Specialty Single-Mode Fiber for Optical Components Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Specialty Single-Mode Fiber for Optical Components Production Value by Region (2021-2026) & (USD Million)

Table 3. World Specialty Single-Mode Fiber for Optical Components Production Value by Region (2027-2032) & (USD Million)

Table 4. World Specialty Single-Mode Fiber for Optical Components Production Value Market Share by Region (2021-2026)

Table 5. World Specialty Single-Mode Fiber for Optical Components Production Value Market Share by Region (2027-2032)

Table 6. World Specialty Single-Mode Fiber for Optical Components Production by Region (2021-2026) & (M Fiber-km)

Table 7. World Specialty Single-Mode Fiber for Optical Components Production by Region (2027-2032) & (M Fiber-km)

Table 8. World Specialty Single-Mode Fiber for Optical Components Production Market Share by Region (2021-2026)

Table 9. World Specialty Single-Mode Fiber for Optical Components Production Market Share by Region (2027-2032)

Table 10. World Specialty Single-Mode Fiber for Optical Components Average Price by Region (2021-2026) & (US\$/Fiber-km)

Table 11. World Specialty Single-Mode Fiber for Optical Components Average Price by Region (2027-2032) & (US\$/Fiber-km)

Table 12. Specialty Single-Mode Fiber for Optical Components Major Market Trends

Table 13. World Specialty Single-Mode Fiber for Optical Components Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (M Fiber-km)

Table 14. World Specialty Single-Mode Fiber for Optical Components Consumption by Region (2021-2026) & (M Fiber-km)

Table 15. World Specialty Single-Mode Fiber for Optical Components Consumption Forecast by Region (2027-2032) & (M Fiber-km)

Table 16. World Specialty Single-Mode Fiber for Optical Components Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Specialty Single-Mode Fiber for Optical Components Producers in 2025

Table 18. World Specialty Single-Mode Fiber for Optical Components Production by Manufacturer (2021-2026) & (M Fiber-km)

Table 19. Production Market Share of Key Specialty Single-Mode Fiber for Optical Components Producers in 2025

Table 20. World Specialty Single-Mode Fiber for Optical Components Average Price by Manufacturer (2021-2026) & (US\$/Fiber-km)

Table 21. Global Specialty Single-Mode Fiber for Optical Components Company Evaluation Quadrant

Table 22. World Specialty Single-Mode Fiber for Optical Components Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Specialty Single-Mode Fiber for Optical Components Production Site of Key Manufacturer

Table 24. Specialty Single-Mode Fiber for Optical Components Market: Company Product Type Footprint

Table 25. Specialty Single-Mode Fiber for Optical Components Market: Company Product Application Footprint

Table 26. Specialty Single-Mode Fiber for Optical Components Competitive Factors

Table 27. Specialty Single-Mode Fiber for Optical Components New Entrant and Capacity Expansion Plans

Table 28. Specialty Single-Mode Fiber for Optical Components Mergers & Acquisitions Activity

Table 29. United States VS China Specialty Single-Mode Fiber for Optical Components Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Specialty Single-Mode Fiber for Optical Components Production Comparison, (2021 & 2025 & 2032) & (M Fiber-km)

Table 31. United States VS China Specialty Single-Mode Fiber for Optical Components Consumption Comparison, (2021 & 2025 & 2032) & (M Fiber-km)

Table 32. United States Based Specialty Single-Mode Fiber for Optical Components Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Specialty Single-Mode Fiber for Optical Components Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Specialty Single-Mode Fiber for Optical Components Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Specialty Single-Mode Fiber for Optical Components Production (2021-2026) & (M Fiber-km)

Table 36. United States Based Manufacturers Specialty Single-Mode Fiber for Optical Components Production Market Share (2021-2026)

Table 37. China Based Specialty Single-Mode Fiber for Optical Components Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Specialty Single-Mode Fiber for Optical Components Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Specialty Single-Mode Fiber for Optical Components Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Specialty Single-Mode Fiber for Optical Components Production, (2021-2026) & (M Fiber-km)

Table 41. China Based Manufacturers Specialty Single-Mode Fiber for Optical Components Production Market Share (2021-2026)

Table 42. Rest of World Based Specialty Single-Mode Fiber for Optical Components Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Specialty Single-Mode Fiber for Optical Components Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Specialty Single-Mode Fiber for Optical Components Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Specialty Single-Mode Fiber for Optical Components Production, (2021-2026) & (M Fiber-km)

Table 46. Rest of World Based Manufacturers Specialty Single-Mode Fiber for Optical Components Production Market Share (2021-2026)

Table 47. World Specialty Single-Mode Fiber for Optical Components Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Specialty Single-Mode Fiber for Optical Components Production by Type (2021-2026) & (M Fiber-km)

Table 49. World Specialty Single-Mode Fiber for Optical Components Production by Type (2027-2032) & (M Fiber-km)

Table 50. World Specialty Single-Mode Fiber for Optical Components Production Value by Type (2021-2026) & (USD Million)

Table 51. World Specialty Single-Mode Fiber for Optical Components Production Value by Type (2027-2032) & (USD Million)

Table 52. World Specialty Single-Mode Fiber for Optical Components Average Price by Type (2021-2026) & (US\$/Fiber-km)

Table 53. World Specialty Single-Mode Fiber for Optical Components Average Price by Type (2027-2032) & (US\$/Fiber-km)

Table 54. World Specialty Single-Mode Fiber for Optical Components Production Value by Coating Diameter, (USD Million), 2021 & 2025 & 2032

Table 55. World Specialty Single-Mode Fiber for Optical Components Production by Coating Diameter (2021-2026) & (M Fiber-km)

Table 56. World Specialty Single-Mode Fiber for Optical Components Production by Coating Diameter (2027-2032) & (M Fiber-km)

Table 57. World Specialty Single-Mode Fiber for Optical Components Production Value by Coating Diameter (2021-2026) & (USD Million)

Table 58. World Specialty Single-Mode Fiber for Optical Components Production Value

by Coating Diameter (2027-2032) & (USD Million)

Table 59. World Specialty Single-Mode Fiber for Optical Components Average Price by Coating Diameter (2021-2026) & (US\$/Fiber-km)

Table 60. World Specialty Single-Mode Fiber for Optical Components Average Price by Coating Diameter (2027-2032) & (US\$/Fiber-km)

Table 61. World Specialty Single-Mode Fiber for Optical Components Production Value by Doped Materials, (USD Million), 2021 & 2025 & 2032

Table 62. World Specialty Single-Mode Fiber for Optical Components Production by Doped Materials (2021-2026) & (M Fiber-km)

Table 63. World Specialty Single-Mode Fiber for Optical Components Production by Doped Materials (2027-2032) & (M Fiber-km)

Table 64. World Specialty Single-Mode Fiber for Optical Components Production Value by Doped Materials (2021-2026) & (USD Million)

Table 65. World Specialty Single-Mode Fiber for Optical Components Production Value by Doped Materials (2027-2032) & (USD Million)

Table 66. World Specialty Single-Mode Fiber for Optical Components Average Price by Doped Materials (2021-2026) & (US\$/Fiber-km)

Table 67. World Specialty Single-Mode Fiber for Optical Components Average Price by Doped Materials (2027-2032) & (US\$/Fiber-km)

Table 68. World Specialty Single-Mode Fiber for Optical Components Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Specialty Single-Mode Fiber for Optical Components Production by Application (2021-2026) & (M Fiber-km)

Table 70. World Specialty Single-Mode Fiber for Optical Components Production by Application (2027-2032) & (M Fiber-km)

Table 71. World Specialty Single-Mode Fiber for Optical Components Production Value by Application (2021-2026) & (USD Million)

Table 72. World Specialty Single-Mode Fiber for Optical Components Production Value by Application (2027-2032) & (USD Million)

Table 73. World Specialty Single-Mode Fiber for Optical Components Average Price by Application (2021-2026) & (US\$/Fiber-km)

Table 74. World Specialty Single-Mode Fiber for Optical Components Average Price by Application (2027-2032) & (US\$/Fiber-km)

Table 75. Corning Basic Information, Manufacturing Base and Competitors

Table 76. Corning Major Business

Table 77. Corning Specialty Single-Mode Fiber for Optical Components Product and Services

Table 78. Corning Specialty Single-Mode Fiber for Optical Components Production (M Fiber-km), Price (US\$/Fiber-km), Production Value (USD Million), Gross Margin and

Market Share (2021-2026)

Table 79. Corning Recent Developments/Updates

Table 80. Corning Competitive Strengths & Weaknesses

Table 81. Fujikura Basic Information, Manufacturing Base and Competitors

Table 82. Fujikura Major Business

Table 83. Fujikura Specialty Single-Mode Fiber for Optical Components Product and Services

Table 84. Fujikura Specialty Single-Mode Fiber for Optical Components Production (M Fiber-km), Price (US\$/Fiber-km), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Fujikura Recent Developments/Updates

Table 86. Fujikura Competitive Strengths & Weaknesses

Table 87. Furukawa Electric Basic Information, Manufacturing Base and Competitors

Table 88. Furukawa Electric Major Business

Table 89. Furukawa Electric Specialty Single-Mode Fiber for Optical Components Product and Services

Table 90. Furukawa Electric Specialty Single-Mode Fiber for Optical Components Production (M Fiber-km), Price (US\$/Fiber-km), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Furukawa Electric Recent Developments/Updates

Table 92. Furukawa Electric Competitive Strengths & Weaknesses

Table 93. Prysmian Group Basic Information, Manufacturing Base and Competitors

Table 94. Prysmian Group Major Business

Table 95. Prysmian Group Specialty Single-Mode Fiber for Optical Components Product and Services

Table 96. Prysmian Group Specialty Single-Mode Fiber for Optical Components Production (M Fiber-km), Price (US\$/Fiber-km), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Prysmian Group Recent Developments/Updates

Table 98. Prysmian Group Competitive Strengths & Weaknesses

Table 99. LEONI Basic Information, Manufacturing Base and Competitors

Table 100. LEONI Major Business

Table 101. LEONI Specialty Single-Mode Fiber for Optical Components Product and Services

Table 102. LEONI Specialty Single-Mode Fiber for Optical Components Production (M Fiber-km), Price (US\$/Fiber-km), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. LEONI Recent Developments/Updates

Table 104. LEONI Competitive Strengths & Weaknesses

Table 105. Coherent Basic Information, Manufacturing Base and Competitors
Table 106. Coherent Major Business
Table 107. Coherent Specialty Single-Mode Fiber for Optical Components Product and Services
Table 108. Coherent Specialty Single-Mode Fiber for Optical Components Production (M Fiber-km), Price (US\$/Fiber-km), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 109. Coherent Recent Developments/Updates
Table 110. Coherent Competitive Strengths & Weaknesses
Table 111. Thorlabs Basic Information, Manufacturing Base and Competitors
Table 112. Thorlabs Major Business
Table 113. Thorlabs Specialty Single-Mode Fiber for Optical Components Product and Services
Table 114. Thorlabs Specialty Single-Mode Fiber for Optical Components Production (M Fiber-km), Price (US\$/Fiber-km), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 115. Thorlabs Recent Developments/Updates
Table 116. Thorlabs Competitive Strengths & Weaknesses
Table 117. Fibercore Basic Information, Manufacturing Base and Competitors
Table 118. Fibercore Major Business
Table 119. Fibercore Specialty Single-Mode Fiber for Optical Components Product and Services
Table 120. Fibercore Specialty Single-Mode Fiber for Optical Components Production (M Fiber-km), Price (US\$/Fiber-km), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 121. Fibercore Recent Developments/Updates
Table 122. Fibercore Competitive Strengths & Weaknesses
Table 123. Exail Basic Information, Manufacturing Base and Competitors
Table 124. Exail Major Business
Table 125. Exail Specialty Single-Mode Fiber for Optical Components Product and Services
Table 126. Exail Specialty Single-Mode Fiber for Optical Components Production (M Fiber-km), Price (US\$/Fiber-km), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 127. Exail Recent Developments/Updates
Table 128. Exail Competitive Strengths & Weaknesses
Table 129. Molex Basic Information, Manufacturing Base and Competitors
Table 130. Molex Major Business
Table 131. Molex Specialty Single-Mode Fiber for Optical Components Product and

Services

Table 132. Molex Specialty Single-Mode Fiber for Optical Components Production (M Fiber-km), Price (US\$/Fiber-km), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Molex Recent Developments/Updates

Table 134. Molex Competitive Strengths & Weaknesses

Table 135. INO Basic Information, Manufacturing Base and Competitors

Table 136. INO Major Business

Table 137. INO Specialty Single-Mode Fiber for Optical Components Product and Services

Table 138. INO Specialty Single-Mode Fiber for Optical Components Production (M Fiber-km), Price (US\$/Fiber-km), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. INO Recent Developments/Updates

Table 140. INO Competitive Strengths & Weaknesses

Table 141. YOFC Basic Information, Manufacturing Base and Competitors

Table 142. YOFC Major Business

Table 143. YOFC Specialty Single-Mode Fiber for Optical Components Product and Services

Table 144. YOFC Specialty Single-Mode Fiber for Optical Components Production (M Fiber-km), Price (US\$/Fiber-km), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. YOFC Recent Developments/Updates

Table 146. YOFC Competitive Strengths & Weaknesses

Table 147. FiberHome Basic Information, Manufacturing Base and Competitors

Table 148. FiberHome Major Business

Table 149. FiberHome Specialty Single-Mode Fiber for Optical Components Product and Services

Table 150. FiberHome Specialty Single-Mode Fiber for Optical Components Production (M Fiber-km), Price (US\$/Fiber-km), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. FiberHome Recent Developments/Updates

Table 152. FiberHome Competitive Strengths & Weaknesses

Table 153. ZTT Basic Information, Manufacturing Base and Competitors

Table 154. ZTT Major Business

Table 155. ZTT Specialty Single-Mode Fiber for Optical Components Product and Services

Table 156. ZTT Specialty Single-Mode Fiber for Optical Components Production (M Fiber-km), Price (US\$/Fiber-km), Production Value (USD Million), Gross Margin and

Market Share (2021-2026)

Table 157. ZTT Recent Developments/Updates

Table 158. ZTT Competitive Strengths & Weaknesses

Table 159. Hengtong Optic-Electric Basic Information, Manufacturing Base and Competitors

Table 160. Hengtong Optic-Electric Major Business

Table 161. Hengtong Optic-Electric Specialty Single-Mode Fiber for Optical Components Product and Services

Table 162. Hengtong Optic-Electric Specialty Single-Mode Fiber for Optical Components Production (M Fiber-km), Price (US\$/Fiber-km), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. Hengtong Optic-Electric Recent Developments/Updates

Table 164. Hengtong Optic-Electric Competitive Strengths & Weaknesses

Table 165. Wuhan Ruixin Basic Information, Manufacturing Base and Competitors

Table 166. Wuhan Ruixin Major Business

Table 167. Wuhan Ruixin Specialty Single-Mode Fiber for Optical Components Product and Services

Table 168. Wuhan Ruixin Specialty Single-Mode Fiber for Optical Components Production (M Fiber-km), Price (US\$/Fiber-km), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 169. Wuhan Ruixin Recent Developments/Updates

Table 170. Wuhan Ruixin Competitive Strengths & Weaknesses

Table 171. Wuhan Guangxin Optoelectronics Basic Information, Manufacturing Base and Competitors

Table 172. Wuhan Guangxin Optoelectronics Major Business

Table 173. Wuhan Guangxin Optoelectronics Specialty Single-Mode Fiber for Optical Components Product and Services

Table 174. Wuhan Guangxin Optoelectronics Specialty Single-Mode Fiber for Optical Components Production (M Fiber-km), Price (US\$/Fiber-km), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 175. Wuhan Guangxin Optoelectronics Recent Developments/Updates

Table 176. Wuhan Guangxin Optoelectronics Competitive Strengths & Weaknesses

Table 177. Wuhan Changyingtong Basic Information, Manufacturing Base and Competitors

Table 178. Wuhan Changyingtong Major Business

Table 179. Wuhan Changyingtong Specialty Single-Mode Fiber for Optical Components Product and Services

Table 180. Wuhan Changyingtong Specialty Single-Mode Fiber for Optical Components Production (M Fiber-km), Price (US\$/Fiber-km), Production Value (USD Million), Gross

Margin and Market Share (2021-2026)

Table 181. Wuhan Changyingtong Recent Developments/Updates

Table 182. Wuhan Changyingtong Competitive Strengths & Weaknesses

Table 183. Beiyi Xiantong Basic Information, Manufacturing Base and Competitors

Table 184. Beiyi Xiantong Major Business

Table 185. Beiyi Xiantong Specialty Single-Mode Fiber for Optical Components Product and Services

Table 186. Beiyi Xiantong Specialty Single-Mode Fiber for Optical Components Production (M Fiber-km), Price (US\$/Fiber-km), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 187. Beiyi Xiantong Recent Developments/Updates

Table 188. Beiyi Xiantong Competitive Strengths & Weaknesses

Table 189. Global Key Players of Specialty Single-Mode Fiber for Optical Components Upstream (Raw Materials)

Table 190. Global Specialty Single-Mode Fiber for Optical Components Typical Customers

Table 191. Specialty Single-Mode Fiber for Optical Components Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Specialty Single-Mode Fiber for Optical Components Picture

Figure 2. World Specialty Single-Mode Fiber for Optical Components Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Specialty Single-Mode Fiber for Optical Components Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Specialty Single-Mode Fiber for Optical Components Production (2021-2032) & (M Fiber-km)

Figure 5. World Specialty Single-Mode Fiber for Optical Components Average Price (2021-2032) & (US\$/Fiber-km)

Figure 6. World Specialty Single-Mode Fiber for Optical Components Production Value Market Share by Region (2021-2032)

Figure 7. World Specialty Single-Mode Fiber for Optical Components Production Market Share by Region (2021-2032)

Figure 8. North America Specialty Single-Mode Fiber for Optical Components Production (2021-2032) & (M Fiber-km)

Figure 9. Europe Specialty Single-Mode Fiber for Optical Components Production (2021-2032) & (M Fiber-km)

Figure 10. China Specialty Single-Mode Fiber for Optical Components Production (2021-2032) & (M Fiber-km)

Figure 11. Japan Specialty Single-Mode Fiber for Optical Components Production (2021-2032) & (M Fiber-km)

Figure 12. Specialty Single-Mode Fiber for Optical Components Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Specialty Single-Mode Fiber for Optical Components Consumption (2021-2032) & (M Fiber-km)

Figure 15. World Specialty Single-Mode Fiber for Optical Components Consumption Market Share by Region (2021-2032)

Figure 16. United States Specialty Single-Mode Fiber for Optical Components Consumption (2021-2032) & (M Fiber-km)

Figure 17. China Specialty Single-Mode Fiber for Optical Components Consumption (2021-2032) & (M Fiber-km)

Figure 18. Europe Specialty Single-Mode Fiber for Optical Components Consumption (2021-2032) & (M Fiber-km)

Figure 19. Japan Specialty Single-Mode Fiber for Optical Components Consumption (2021-2032) & (M Fiber-km)

- Figure 20. South Korea Specialty Single-Mode Fiber for Optical Components Consumption (2021-2032) & (M Fiber-km)
- Figure 21. ASEAN Specialty Single-Mode Fiber for Optical Components Consumption (2021-2032) & (M Fiber-km)
- Figure 22. India Specialty Single-Mode Fiber for Optical Components Consumption (2021-2032) & (M Fiber-km)
- Figure 23. Producer Shipments of Specialty Single-Mode Fiber for Optical Components by Manufacturer Revenue (\$MM) and Market Share (%): 2025
- Figure 24. Global Four-firm Concentration Ratios (CR4) for Specialty Single-Mode Fiber for Optical Components Markets in 2025
- Figure 25. Global Four-firm Concentration Ratios (CR8) for Specialty Single-Mode Fiber for Optical Components Markets in 2025
- Figure 26. United States VS China: Specialty Single-Mode Fiber for Optical Components Production Value Market Share Comparison (2021 & 2025 & 2032)
- Figure 27. United States VS China: Specialty Single-Mode Fiber for Optical Components Production Market Share Comparison (2021 & 2025 & 2032)
- Figure 28. United States VS China: Specialty Single-Mode Fiber for Optical Components Consumption Market Share Comparison (2021 & 2025 & 2032)
- Figure 29. United States Based Manufacturers Specialty Single-Mode Fiber for Optical Components Production Market Share 2025
- Figure 30. China Based Manufacturers Specialty Single-Mode Fiber for Optical Components Production Market Share 2025
- Figure 31. Rest of World Based Manufacturers Specialty Single-Mode Fiber for Optical Components Production Market Share 2025
- Figure 32. World Specialty Single-Mode Fiber for Optical Components Production Value by Type, (USD Million), 2021 & 2025 & 2032
- Figure 33. World Specialty Single-Mode Fiber for Optical Components Production Value Market Share by Type in 2025
- Figure 34. G.652.D
- Figure 35. G.657.A
- Figure 36. G.657.B
- Figure 37. World Specialty Single-Mode Fiber for Optical Components Production Market Share by Type (2021-2032)
- Figure 38. World Specialty Single-Mode Fiber for Optical Components Production Value Market Share by Type (2021-2032)
- Figure 39. World Specialty Single-Mode Fiber for Optical Components Average Price by Type (2021-2032) & (US\$/Fiber-km)
- Figure 40. World Specialty Single-Mode Fiber for Optical Components Production Value by Coating Diameter, (USD Million), 2021 & 2025 & 2032

Figure 41. World Specialty Single-Mode Fiber for Optical Components Production Value Market Share by Coating Diameter in 2025

Figure 42. 165 ?m

Figure 43. 195 ?m

Figure 44. 240 ?m

Figure 45. Others

Figure 46. World Specialty Single-Mode Fiber for Optical Components Production Market Share by Coating Diameter (2021-2032)

Figure 47. World Specialty Single-Mode Fiber for Optical Components Production Value Market Share by Coating Diameter (2021-2032)

Figure 48. World Specialty Single-Mode Fiber for Optical Components Average Price by Coating Diameter (2021-2032) & (US\$/Fiber-km)

Figure 49. World Specialty Single-Mode Fiber for Optical Components Production Value by Doped Materials, (USD Million), 2021 & 2025 & 2032

Figure 50. World Specialty Single-Mode Fiber for Optical Components Production Value Market Share by Doped Materials in 2025

Figure 51. Erbium-Doped Single-Mode Fiber

Figure 52. Ytterbium-Doped Single-Mode Fiber

Figure 53. Erbium-Ytterbium Co-Doped Single-Mode Fiber

Figure 54. World Specialty Single-Mode Fiber for Optical Components Production Market Share by Doped Materials (2021-2032)

Figure 55. World Specialty Single-Mode Fiber for Optical Components Production Value Market Share by Doped Materials (2021-2032)

Figure 56. World Specialty Single-Mode Fiber for Optical Components Average Price by Doped Materials (2021-2032) & (US\$/Fiber-km)

Figure 57. World Specialty Single-Mode Fiber for Optical Components Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 58. World Specialty Single-Mode Fiber for Optical Components Production Value Market Share by Application in 2025

Figure 59. Pigtails/Patch Cords

Figure 60. Connectors

Figure 61. Couplers

Figure 62. Optical Amplifiers

Figure 63. Others

Figure 64. World Specialty Single-Mode Fiber for Optical Components Production Market Share by Application (2021-2032)

Figure 65. World Specialty Single-Mode Fiber for Optical Components Production Value Market Share by Application (2021-2032)

Figure 66. World Specialty Single-Mode Fiber for Optical Components Average Price by

Application (2021-2032) & (US\$/Fiber-km)

Figure 67. Specialty Single-Mode Fiber for Optical Components Industry Chain

Figure 68. Specialty Single-Mode Fiber for Optical Components Procurement Model

Figure 69. Specialty Single-Mode Fiber for Optical Components Sales Model

Figure 70. Specialty Single-Mode Fiber for Optical Components Sales Channels, Direct Sales, and Distribution

Figure 71. Methodology

Figure 72. Research Process and Data Source

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