

# Global Optoelectronic Composite Cable for Power Use Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Optoelectronic Composite Cable for Power Use market size was valued at US\$ 1469 million in 2025 and is forecast to a readjusted size of US\$ 2213 million by 2032 with a CAGR of 5.0% during review period.

Power fiber optic composite cables are composite cable products that integrate optical fiber units and power conductors in the same cable structure. They can simultaneously realize power transmission or auxiliary power supply and high-speed communication transmission. They are commonly used in distribution network automation, substation secondary systems, online line monitoring, relay protection and dispatch communication, wind power and photovoltaic power station collection line monitoring, energy storage power stations and charging infrastructure, etc. In 2025, the global sales volume of power fiber optic composite cables was approximately 680 million meters, with an average unit price of approximately US\$2.10 per meter and a capacity utilization rate of approximately 80%. The upstream mainly consists of optical fiber preform and optical fiber drawing manufacturers, copper or aluminum conductor and tin-plated material suppliers, cross-linked polyethylene and low-smoke halogen-free insulation sheath material manufacturers, steel tape and steel wire armor and reinforcing component suppliers, and cable manufacturing extrusion and cabling equipment manufacturers. The downstream consists of power grid companies and distribution network operation and maintenance units, power engineering general contractors and EPC, power equipment manufacturers and system integrators, new energy power generation groups and energy storage system integrators, and power infrastructure construction parties for rail transit and large industrial parks. The industry gross profit margin is approximately 25%, with optical fiber accounting for a significant portion of the

product cost structure. The components account for approximately 22% of the total cost, including optical fiber units, copper or aluminum conductors, insulation and sheathing materials, armor and reinforcement components, manufacturing and energy consumption, testing and certification, logistics and engineering delivery, and management and sales expenses. The demand list mainly includes distribution network automation and feeder communication, intelligent transformation of substations, integrated online monitoring and fault location of lines, integrated cabling for communication and power supply in new energy power plants, supporting cabling for energy storage power stations and charging facilities, and integrated deployment of power communication in industrial parks and rail transit. The downstream customer list includes national and regional power grid companies, new energy power generation groups, power design institutes and engineering companies, relay protection and automation equipment manufacturers, energy storage system integrators, and leading cable channels and engineering integrators. Business opportunities come from the policy promotion of new power systems and smart grids, the increased penetration rate of digital transformation and online monitoring of distribution networks, the increased cabling volume in power plants brought about by the grid connection of new energy and the expansion of energy storage capacity, and the changing demands of users for reducing laying circuits, shortening construction cycles, improving reliability, and reducing the total life cycle operation and maintenance costs.

This report is a detailed and comprehensive analysis for global Optoelectronic Composite Cable for Power Use market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

### **Key Features:**

Global Optoelectronic Composite Cable for Power Use market size and forecasts, in consumption value (\$ Million), sales quantity (K Meter), and average selling prices (US\$/Meter), 2021-2032

Global Optoelectronic Composite Cable for Power Use market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Meter), and average selling prices (US\$/Meter), 2021-2032

Global Optoelectronic Composite Cable for Power Use market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Meter), and average selling prices (US\$/Meter), 2021-2032

Global Optoelectronic Composite Cable for Power Use market shares of main players, shipments in revenue (\$ Million), sales quantity (K Meter), and ASP (US\$/Meter), 2021-2026

### **The Primary Objectives in This Report Are:**

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Optoelectronic Composite Cable for Power Use
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Optoelectronic Composite Cable for Power Use market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Nexans, Prysmian, Teletechno, Sumitomo Electric, LS Cable, Copartner, Huawei, Zhongtian Technology Group, Tongguang Group, Wutong Group, etc.

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

### **Market Segmentation**

Optoelectronic Composite Cable for Power Use market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

OPGW Optical Cable

GWWOP Optical Cable

ADSS Optical Cable

Other

#### Market segment by Mode

Single-Mode

Multi-Mode

#### Market segment by Outer Diameter

Outer Diameter: 10-12 mm

Outer Diameter: 12-14.5 mm

Other

#### Market segment by Application

Power Grids and Substations

Rail Transit

Petrochemicals and Machinery

Telecommunications Power Supply

Others

#### Major players covered

Nexans

Prysmian

Teletechno

Sumitomo Electric

LS Cable

Copartner

Huawei

Zhongtian Technology Group

Tongguang Group

Wutong Group

YOFC

Ningbo Orient Wires and Cables

Hengtong Optic-Electric

Shanghai QiFan Cable

Zhejiang Wanma Tianyi Communication Wire & Cable

Shenzhen Hanxin

Oufu

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

**The content of the study subjects, includes a total of 15 chapters:**

Chapter 1, to describe Optoelectronic Composite Cable for Power Use product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Optoelectronic Composite Cable for Power Use, with price, sales quantity, revenue, and global market share of Optoelectronic Composite Cable for Power Use from 2021 to 2026.

Chapter 3, the Optoelectronic Composite Cable for Power Use competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Optoelectronic Composite Cable for Power Use breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Optoelectronic Composite Cable for Power Use market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Optoelectronic Composite Cable for Power Use.

Chapter 14 and 15, to describe Optoelectronic Composite Cable for Power Use sales channel, distributors, customers, research findings and conclusion.

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