

# Global Single Core Land High Voltage Underground Cable Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Single Core Land High Voltage Underground Cable market size is expected to reach \$ 587 million by 2032, rising at a market growth of 4.0% CAGR during the forecast period (2026-2032).

Single core land high voltage (HV) underground cables are specialized single-conductor power transmission cables designed for land-based underground power grid laying scenarios. Structurally composed of high-conductivity copper/aluminum conductors, high-voltage-resistant insulation layers, shielding layers, sheaths and metal armoring layers, cross-linked polyethylene (XLPE) is commonly adopted as the insulation material. Their core function is to realize safe, low-loss HV power transmission in scenarios such as urban power grids, industrial parks and new energy power station grid connection. Featuring advantages including minimal land occupation for laying, strong resistance to external mechanical damage and low susceptibility to natural environmental impacts, they serve as core components for constructing underground power transmission and distribution networks. The unit price ranges from \$50-\$800 per meter, significantly affected by voltage grade, conductor cross-section and insulation material. Basic 110kV cables with small cross-sections are priced at \$50-\$150 per meter; 220kV-500kV medium and high-voltage cables with large cross-sections are sold at \$150-\$400 per meter; 750kV and above ultra-high voltage cables or customized products adopting high-temperature and corrosion-resistant special insulation materials can reach \$400-\$800 per meter. Long-distance bulk purchases are eligible for certain bargaining space.

### Industry Chain Structure

Upstream: Consists of suppliers of core materials including copper/aluminum conductors, XLPE insulation compounds, shielding materials, metal armoring materials and cable accessories. Conductor purity and the voltage withstanding performance of insulation materials directly determine the core quality and safety threshold of cables.

**Midstream:** Covers cable design, conductor stranding, insulation extrusion, shielding and sheath coating, as well as finished product testing processes. All products need to pass stringent verification such as voltage withstanding tests and partial discharge tests. Some enterprises have integrated supply capabilities of cables and accessories.

**Downstream:** Connects with power grid operators, new energy power station investors and industrial park construction units, applied in scenarios such as urban underground power grids, cross-regional power transmission projects and new energy grid connection, serving as the core carrier of underground power transmission networks.

#### Core Market Drivers

**Demand from urban power grid underground transformation:** Accelerated urbanization drives the conversion of overhead lines to underground cables, alleviating land resource constraints, reducing the impact of power grids on urban landscapes and directly boosting the baseline demand for single core land HV underground cables.

**Pull from new energy grid connection projects:** Most solar and wind power stations are located in remote areas, requiring HV underground cables to achieve long-distance power transmission and grid integration, spawning incremental demand for large-cross-section, high-voltage-resistant cables.

**Appeal for improved power grid safety and reliability:** Compared with overhead lines, underground cables are less affected by extreme weather and external damage, providing higher power supply stability. Power grid enterprises continue to increase investment in underground cables to enhance the risk resistance of power systems.

**Policy and standard guidance:** Countries around the world have issued policies related to power grid upgrading and new energy development, clarifying construction targets for underground power transmission networks. Meanwhile, improved technical standards for HV cable voltage withstanding, flame retardancy and corrosion resistance promote the standardized development of the industry.

#### Key Market Challenges

**High technical and process barriers:** Controlling the uniformity of insulation layers and conductor stranding processes for high-voltage grade cables is highly challenging. Ultra-high voltage products need to address technical problems such as partial discharge and heat loss, imposing high requirements on enterprises' R&D capabilities and production equipment.

**Raw material cost fluctuation risks:** Copper and aluminum conductors account for a large proportion of total production costs. Their price fluctuations directly affect enterprises' profit margins. High-end insulation materials still have a certain degree of import dependence, posing challenges to supply chain stability.

**High laying and operation & maintenance costs:** Underground cable laying requires earth excavation and tunnel construction, resulting in long construction cycles and high

costs. Post-operation fault detection and maintenance are difficult, requiring supporting professional testing equipment and technical teams, which further pushes up operation and maintenance costs.

**Intensified market competition:** The medium and high-voltage cable market has a large number of participants, leading to fierce homogeneous competition and compressed profit margins for enterprises. Although the ultra-high voltage market has high technical thresholds, competition between international brands and domestic leading enterprises is becoming increasingly fierce.

This report studies the global Single Core Land High Voltage Underground Cable production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Single Core Land High Voltage Underground Cable 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 Single Core Land High Voltage Underground Cable that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Single Core Land High Voltage Underground Cable total production and demand, 2021-2032, (K Meter)

Global Single Core Land High Voltage Underground Cable total production value, 2021-2032, (USD Million)

Global Single Core Land High Voltage Underground Cable production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Meter), (based on production site)

Global Single Core Land High Voltage Underground Cable consumption by region & country, CAGR, 2021-2032 & (K Meter)

U.S. VS China: Single Core Land High Voltage Underground Cable domestic production, consumption, key domestic manufacturers and share

Global Single Core Land High Voltage Underground Cable production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Meter)

Global Single Core Land High Voltage Underground Cable production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Meter)

Global Single Core Land High Voltage Underground Cable production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Meter)

This report profiles key players in the global Single Core Land High Voltage Underground Cable 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 Prysmian Group, Nexans, Southwire, Hengtong Group, Furukawa Electric, Sumitomo Electric

Industries, Qrunning Cable, LS Cable & System, Taihan Electric, Riyadh Cable, 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 Single Core Land High Voltage Underground Cable market

**Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Meter) and average price (US\$/Meter) 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 Single Core Land High Voltage Underground Cable Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Single Core Land High Voltage Underground Cable Market, Segmentation by Type:

HV

EHV

Global Single Core Land High Voltage Underground Cable Market, Segmentation by

**Insulating Materials:**

XLPE Insulated Cables

Oil-filled Insulated Cables

Others

**Global Single Core Land High Voltage Underground Cable Market, Segmentation by Functional Characteristics:**

Conventional Cables

Smart Cables

Others

**Global Single Core Land High Voltage Underground Cable Market, Segmentation by Application:**

Direct Current

Alternative Current

**Companies Profiled:**

Prysmian Group

Nexans

Southwire

Hengtong Group

Furukawa Electric

Sumitomo Electric Industries

Qrunning Cable

LS Cable & System

Taihan Electric

Riyadh Cable

NKT Cables

**Key Questions Answered:**

1. How big is the global Single Core Land High Voltage Underground Cable market?
2. What is the demand of the global Single Core Land High Voltage Underground Cable market?
3. What is the year over year growth of the global Single Core Land High Voltage Underground Cable market?
4. What is the production and production value of the global Single Core Land High Voltage Underground Cable market?
5. Who are the key producers in the global Single Core Land High Voltage Underground Cable market?
6. What are the growth factors driving the market demand?

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