

# Global DC Power Cables 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 DC Power Cables market size was valued at US\$ 9106 million in 2025 and is forecast to a readjusted size of US\$ 17374 million by 2032 with a CAGR of 9.6% during review period.

DC power cables are insulated conductor products designed to transmit and distribute electrical energy in direct-current systems across low- to extra-high-voltage classes. They use copper or aluminum conductors with insulation systems such as XLPE, PVC, and EPR and are manufactured for fixed installation or flexible connection. This study focuses on finished power cables used in photovoltaic arrays and energy-storage systems, data-center DC distribution, transportation electrification, industrial DC networks, and onshore or submarine HVDC transmission. Key purchasing parameters include rated voltage, current-carrying capacity, conductor cross-section, thermal and flame performance, environmental resistance, bending performance, and system reliability. Market value is formed by conductor metals, insulation compounds, specialized manufacturing, certification, engineering design, and installation services. The blended gross margin is approximately 22%.

## Market Trends

Demand for DC power cables is expanding from traditional long-distance transmission and photovoltaic module connections into energy-storage systems, data-center DC distribution, rail transport, marine applications, and industrial DC microgrids. Product development is shifting from current-carrying capacity alone toward higher rated voltage, lower line losses, stronger weather and flame performance, and longer design

life. High- and extra-high-voltage products increasingly use extruded XLPE insulation and coordinated onshore-offshore interfaces, while low-voltage products focus on 1.5 kV photovoltaic systems, flexible routing, and low-smoke halogen-free materials. Large projects are also adopting online monitoring, digital delivery, and lifecycle services, extending competition from cable manufacturing into system design, accessories, installation, and testing.

## Market Dynamics

**Drivers:** Cross-regional grid interconnection, offshore wind export systems, utility-scale photovoltaic deployment, and energy storage create simultaneous demand at both high- and low-voltage levels. Higher DC bus voltages in data centers, transportation electrification, and industrial DC equipment further increase specialized cable consumption. **Restraints:** Volatility in copper, aluminum, and polymer prices affects quotations and inventory management, while high-voltage production lines, testing facilities, and cable-laying vessels require substantial capital. Long qualification cycles and project-based delivery also create uneven capacity utilization. **Opportunities:** 525 kV-class extruded HVDC, multi-terminal voltage-source systems, dynamic offshore wind cables, aluminum photovoltaic feeders, 380–800 V data-center DC distribution, and high-power charging networks create new product space. **Challenges:** Standards remain fragmented across end markets, and DC arcing, insulation space charge, joint reliability, and installation in complex environments require stronger design and quality control.

## Industry Chain Analysis

Upstream inputs include copper and aluminum rod, XLPE and EPR compounds, semiconductive shielding compounds, sheath materials, armor steel, and connection accessories. Midstream processes include drawing and stranding, conductor compaction, insulation extrusion, shielding and armoring, cabling, partial-discharge testing, and type testing. Downstream buyers include grid operators, renewable-energy developers, data-center builders, transportation-equipment manufacturers, and industrial system integrators. Low-voltage profitability depends more on raw-material purchasing and production scale, while high-voltage project profitability depends more on capacity utilization, qualification, system engineering, accessory coordination, and installation capability.

## Segment Insights

Based on the report's bottom-up segment model, products above 150 kV account for approximately 42% of market value, although products at or below 1.5 kV represent the majority of shipped length. Copper conductors account for about 68% of market value, while aluminum gains in long feeder runs and cost-sensitive projects. XLPE insulation represents approximately 55% and continues to expand in medium- and high-voltage and outdoor applications. Fixed-installation cables account for more than 80% of market value, while flexible products are concentrated in mobile equipment, transportation, robotics, marine systems, and dynamic subsea cables.

## Downstream Market Opportunities

Grid infrastructure together with renewable energy contributes approximately 60% of market value and remain the core sources of project scale and new investment. Data centers and telecom and transportation have smaller bases but faster growth, with purchasing focused on high power density, flame resistance, low-smoke halogen-free performance, bending durability, and rapid connection. Industrial demand is fragmented but stable and can be addressed through standardized product platforms and regional channels. Energy storage, DC microgrids, and offshore energy islands create cross-application opportunities.

## Regional Insights

Asia Pacific represents approximately 44% of global market value, supported by photovoltaic deployment, grid expansion, manufacturing activity, and local cable capacity. Europe has a high concentration of submarine interconnectors, offshore wind export links, and HVDC projects and places greater emphasis on recyclable materials, low-carbon manufacturing, and regional supply chains. North America is supported by grid modernization, renewable interconnection, and hyperscale data-center construction, while permitting, interstate transmission, and domestic manufacturing capacity determine the pace of realization. The Middle East, Latin America, and Africa offer opportunities in solar, industrial, and cross-regional transmission projects but are more sensitive to pricing, financing, and construction delivery.

## Competitive Landscape Analysis

The high-voltage and submarine HVDC market is led by integrated suppliers with insulation-system development, long-length manufacturing, accessories, testing and certification, and offshore installation capabilities, resulting in substantially higher concentration than the low-voltage market. Prysmian, Nexans, and NKT have broad onshore and offshore high-voltage system capabilities, while LS Cable & System, Sumitomo Electric, Hengtong Group, ZTT, Orient Cable, and Taihan Cable & Solution continue to expand regional capacity and project experience. The low-voltage photovoltaic, industrial, and transportation market has more participants, with competition centered on certification coverage, raw-material cost control, channel responsiveness, and customization. Future share changes will depend more on high-voltage capacity additions, project execution records, regional localization, and system-level delivery than on product price alone.

## Report Scope

This report is a detailed and comprehensive analysis for global DC Power Cables 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 DC Power Cables market size and forecasts, in consumption value (\$ Million), sales quantity (K Meter), and average selling prices (US\$/Meter), 2021-2032

Global DC Power Cables 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 DC Power Cables 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 DC Power Cables 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 DC Power Cables

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 DC Power Cables 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 Prysmian, Nexans, NKT, LS Cable & System, Sumitomo Electric, Hengtong Group, ZTT, Orient Cable, Taihan Cable & Solution, Hellenic Cables, etc.

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

DC Power Cables 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 Segmentation**

### **Market segment by Type**

Low-Voltage DC Cables (<1.5 kV)

Medium-Voltage DC Cables (>1.5–36 kV)

High-Voltage DC Cables (>36–150 kV)

Extra-High-Voltage DC Cables (>150 kV)

## **Market segment by Insulation Material**

XLPE-Insulated Cables

PVC-Insulated Cables

EPR-Insulated Cables

Other Insulation Cables

## **Market segment by Conductor Material**

Copper-Conductor Cables

Aluminum-Conductor Cables

Other-Conductor Cables

## **Market segment by Cable Flexibility**

Fixed-Installation Cables

Flexible Cables

## **Market segment by Application**

Grid Infrastructure

Renewable Energy

Data Centers and Telecom

Transportation

Industrial

Others

## **Major players covered**

Prysmian

Nexans

NKT

LS Cable & System

Sumitomo Electric

Hengtong Group

ZTT

Orient Cable

Taihan Cable & Solution

Hellenic Cables

Southwire

LAPP

HELUKABEL

HUBER+SUHNER

KEI Industries

Polycab

RR Kabel

Elsowedy Electric

Ducab

Top Cable

## **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)

## **Chapter Outline**

Chapter 1, to describe DC Power Cables product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of DC Power Cables, with price, sales quantity, revenue, and global market share of DC Power Cables from 2021 to 2026. Chapter 3, the DC Power Cables competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the DC Power Cables 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 DC Power Cables 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 DC Power Cables.

Chapter 14 and 15, to describe DC Power Cables sales channel, distributors, customers, research findings and conclusion.

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