

Global DC Photovoltaic Cable Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G56597A06053EN.html>

Date: June 2026

Pages: 157

Price: US\$ 4,480.00 (Single User License)

ID: G56597A06053EN

Abstracts

The global DC Photovoltaic Cable market size is expected to reach \$ 3705 million by 2032, rising at a market growth of 8.2% CAGR during the forecast period (2026-2032).

DC photovoltaic cable refers to a dedicated power cable used on the direct-current side of solar photovoltaic systems, primarily for interconnection between PV modules, module strings, combiner boxes and the DC input side of inverters. The scope of this study focuses on PV-specific cables designed for long-term outdoor exposure, UV and ozone resistance, wet and dry operation, flame retardancy, low-smoke halogen-free performance where required, and stable insulation performance under demanding climatic conditions. Typical products include single-core or twin-core photovoltaic cables manufactured in accordance with IEC 62930, EN 50618, H1Z2Z2-K, legacy PV1-F specifications, or UL 4703 PV Wire requirements. The mainstream design uses tinned copper or aluminium conductors with cross-linked polyolefin, XLPE, elastomeric or HFFR/LSZH insulation and sheath compounds. The dominant voltage platform is 1.5 kV DC under IEC/EN systems, while North American UL 4703 PV Wire products may cover 600 V, 1000 V and 2000 V applications.

Pricing is materially influenced by copper or aluminium cost, conductor size, certification regime, fire-performance class, direct-burial or water-resistance requirements, order scale and regional supply chain structure.

Based on our research, DC photovoltaic cable is a mature but structurally growing segment within the solar balance-of-system value chain. Its role is not to create energy conversion efficiency directly, but to secure safe, durable and low-loss transmission on the DC side of PV systems. The core industry boundary should be drawn around PV-specific DC cables used between modules, strings, combiner boxes and inverter DC

inputs. The key purchasing criteria are increasingly shifting from simple unit price to standards compliance, long-term insulation performance, UV and ozone resistance, water resistance, direct-burial suitability, fire classification and compatibility with 1.5 kV or 2 kV PV architectures.

From a supply-side perspective, the market is structurally fragmented despite the presence of global cable leaders. Large diversified cable groups hold advantages in project credibility, certification coverage, balance-sheet strength and global logistics, while specialist solar cable manufacturers and regional producers compete through product focus, flexible production and cost competitiveness. China has a particularly broad supplier base, ranging from large cable groups to export-oriented PV connectivity manufacturers. Europe remains strong in certified H1Z2Z2-K products and specialty applications, while North America is shaped by UL 4703 PV Wire requirements and local manufacturing considerations.

Demand growth is mainly driven by new solar PV installations, but revenue growth is moderated by material efficiency, competitive pricing and continuous cost-down pressure across the solar supply chain. Utility-scale solar generates the largest volume demand, while rooftop PV tends to require longer DC cable length per MW and higher installation flexibility. Floating PV, desert PV and high-fire-risk rooftop installations create demand for higher-performance sheathing, water resistance, abrasion resistance and stricter fire behaviour. As a result, the most attractive sub-segments are not necessarily the lowest-cost commodity cables, but certified and application-specific products with reliable field performance.

The competitive landscape is expected to remain multi-layered. Large cable groups will continue to capture bankable utility-scale and regulated-market demand, while regional manufacturers will retain meaningful share in price-sensitive and locally supplied projects. Consolidation may occur around distribution, certification, local manufacturing and bundled PV connectivity solutions, but the product's manufacturing accessibility means the long tail is unlikely to disappear. The key long-term differentiators will be certification depth, copper and aluminium procurement capability, quality consistency, regional delivery reliability and the ability to serve increasingly diverse PV installation environments.

This report studies the global DC Photovoltaic Cable production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for DC

Photovoltaic 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 DC Photovoltaic Cable that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global DC Photovoltaic Cable total production and demand, 2021-2032, (K Meter)

Global DC Photovoltaic Cable total production value, 2021-2032, (USD Million)

Global DC Photovoltaic Cable production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Meter), (based on production site)

Global DC Photovoltaic Cable consumption by region & country, CAGR, 2021-2032 & (K Meter)

U.S. VS China: DC Photovoltaic Cable domestic production, consumption, key domestic manufacturers and share

Global DC Photovoltaic Cable production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Meter)

Global DC Photovoltaic Cable production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Meter)

Global DC Photovoltaic Cable production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Meter)

This report profiles key players in the global DC Photovoltaic 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, LAPP Group, HELUKABEL, LS Cable & System, Hengtong Group, Zhongli Sci-Tech, Top Cable, KBE Elektrotechnik, 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 DC Photovoltaic 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 DC Photovoltaic Cable Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global DC Photovoltaic Cable Market, Segmentation by Type:

IEC / EN H1Z2Z2-K Cable

UL 4703 PV Wire

Legacy / Local PV Cable

Other

Global DC Photovoltaic Cable Market, Segmentation by Product Standard Regime:

Tinned Copper PV Cable

Aluminium PV Wire / Cable

Other

Global DC Photovoltaic Cable Market, Segmentation by Conductor Material:

1.5 kV DC Cable

2.0 kV DC PV Wire

Below 1.5 kV / Legacy

Other

Global DC Photovoltaic Cable Market, Segmentation by Application:

Utility-scale Solar Plants

Commercial & Industrial Rooftop PV

Residential Rooftop PV

Floating / Special-environment PV

Other

Companies Profiled:

Prysmian Group

Nexans

Southwire

LAPP Group

HELUKABEL

LS Cable & System

Hengtong Group

Zhongli Sci-Tech

Top Cable

KBE Elektrotechnik

Studer Cables AG

Far East Cable

Jiangsu Shangshang Cable Group

Ningbo Pntech New Energy

Sunkuan Cable Co., Ltd.

Leader Group

Fujikura Dia Cable

Tai Sin Electric Cables

Phelps Dodge International

Berica Cavi

RCT Cables

TT Cables

Jiangsu Grand Cable

Yuznur Kablo

Borsan

Key Questions Answered:

1. How big is the global DC Photovoltaic Cable market?
2. What is the demand of the global DC Photovoltaic Cable market?
3. What is the year over year growth of the global DC Photovoltaic Cable market?
4. What is the production and production value of the global DC Photovoltaic Cable market?
5. Who are the key producers in the global DC Photovoltaic Cable market?
6. What are the growth factors driving the market demand?

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