Wire And Cable - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)

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Report description:

Wire And Cable Market Analysis

The Wire And Cable Market size is estimated at USD 233.36 billion in 2025, and is expected to reach USD 304.13 billion by 2030, at a CAGR of 5.44% during the forecast period (2025-2030).

Demand accelerates as power grids pivot toward distributed generation and as digital infrastructure scales to support AI-enabled data centers and 5G backbones. Submarine export links for offshore wind, fiber-to-the-home (FTTH) roll-outs in populous economies, and the electrification of transport are reshaping product mixes, manufacturing footprints, and procurement cycles. Short supply of cross-linked polyethylene (XLPE) compounds on one side and record-high copper prices on the other are inflating project budgets, yet policy-backed capital flows into clean-energy and digital-inclusion programs offset these pressures. Competitive advantage is gravitating toward firms that can secure raw-material contracts, ramp high-voltage capacity, and localize production in growth regions.

Global Wire And Cable Market Trends and Insights

Surging Offshore Wind HV Cable Demand in North Sea & East Asia

Record auction volumes for offshore wind have doubled annual high-voltage submarine cable orders since 2020. Awarded lengths jumped from 759 km in 2016 to almost 2,000 km in 2022, pushing lead times from 12-18 months to 24-30 months for 2025 contracts. The North Sea alone will require over 8,000 km of export links by 2030, while East Asia adds 146 GW of capacity by 2033. Market leaders are expanding: Prysmian signed USD 5 billion of German projects, NKT is doubling its Karlskrona plant output, and Nexans is adding a second Norwegian cable-lay vessel. Only six global suppliers now qualify for □800 kV/4 GW DC cables, intensifying a capacity crunch.

Accelerated Fiber-to-Home Roll-outs in India & ASEAN

India's BharatNet budget rose 238% to INR 22,000 crore in 2025, enabling 12 lakh new FTTH lines and 692,676 km of optical fiber. Pre-terminated assemblies and micro-trenching have lowered rural deployment costs by 30% and cut installation time. ASEAN governments are targeting 1 Gbps consumer plans for 40% of households by 2030, accelerating copper switch-off timetables. Consequently, fiber take-rates are nudging cable makers to shift capex from low-margin LAN copper to optical glass preform, ribbon, and micro-duct products.

XLPE Resin Supply Bottlenecks Limiting EHV Output

Cross-linked polyethylene shortages have stretched lead times for extra-high-voltage cable by 30-40% compared with 2022 levels. Surface-defect studies show scratches can raise electric-field stress 1.6□ and cut breakdown voltage from 129.6 kV to 59.1 kV, forcing more rejects at factory tests. Planned expansions in Texas and Singapore will not reach nameplate capacity until late 2026, prolonging tightness. Grid operators now tender hybrid packages that combine gas-insulated bus ducts and limited cable runs to bridge the supply gap.

Other drivers and restraints analyzed in the detailed report include:

Electrification of Automotive Harnesses for EV Platforms / Sub-Saharan Grid Interconnect Projects Unlocking Multilateral Funding / Copper Price Volatility Squeezing Contractor Margins in MENA /

For complete list of drivers and restraints, kindly check the Table Of Contents.

Segment Analysis

Low-Voltage cables retained 54% revenue in 2024, anchored by residential build-outs and consumer electronics. Extra- & High-Voltage lines, though smaller in volume, are forecast to post a 7.9% CAGR as offshore wind farms and long-haul renewables drive interconnector projects. Owing to this trajectory, the wire and cable market share of high-voltage products is set to climb steadily through 2030. National Energy Policy targets for carbon-neutral grids stimulate bulk procurement of □525 kV HVDC links, compressing delivery cycles and locking OEM production slots years ahead.

Investment momentum is most evident in Europe, where combined grid-expansion budgets exceed EUR 50 billion for 2025-2027, and in China's West-to-East transmission corridors. The wire and cable market size for high-voltage lines is supported by regulatory fast-tracking of renewable-integration corridors. Manufacturers are responding with larger continuous vulcanization lines, on-line partial-discharge monitoring, and robotized insulation extrusion to lift output and cut defect rates.

Power cables delivered 61% of the 2024 turnover, reflecting grid spending and industrial electrification. Fiber-optic revenue, while smaller, is projected to grow 8.6% annually to 2030 as governments fund universal broadband and cloud hyperscalers build latency-sensitive backbones. This differential positions fiber as the chief growth engine inside the broader wire and cable market. Rising demand for bend-insensitive ribbon and reduced-diameter micro-cables spurs glass-preform suppliers to expand and bring more hydrogen-free processes online.

Beyond telecoms, fiber penetrates factory automation, smart buildings, and harsh-environment sensing. Multi-core optical cables now replace legacy serial copper in robotics, offering EMI immunity and weight savings. As FTTH penetration deepens, the wire and cable market size attributed to optical glass clusters is forecast to overtake indoor Cat6 volumes by the decade's end.

The Wire and Cable Market Report Segmented by Voltage (Extra- and High-Voltage, Medium-Voltage, and More), Cable Type (Power Cable, Fiber-Optic Cable, and More), Conductor Material (Copper, Aluminum, Optical Glass / Polymer), Installation (Overhead, and More), End-User Vertical (Construction-Residential, Construction-Commercial, and More), and Geography. The Market Forecasts are Provided in Terms of Value (USD).

Geography Analysis

Asia Pacific anchored 54% of global 2024 revenue and is set to expand at a 6.1% CAGR to 2030. China's ultra-high-voltage grid corridors and its dominance in polymer compounding secure regional-scale economics, while India's BharatNet and Smart Metering goals redirect domestic cable factories toward fiber and aerial bundled conductors. Southeast Asian governments are rolling out undersea power interconnections to balance renewable resources, enlarging procurement lots for regional plants.

North America emphasizes renewable integration and resilience. U.S. offshore wind zones along the Atlantic require 10 GW of export capacity by 2030, and the Biden administration's BEAD program channels federal grants toward rural fiber builds, lifting domestic demand for loose-tube and all-dielectric self-supporting (ADSS) lines. Canada's hydro-export links to the U.S. Northeast and Midwest seek 525 kV HVDC cables rated for extreme Alpine temperatures.

Europe's decarbonization pathway hinges on interconnected grids; Germany alone earmarked EUR 21.3 billion for HVDC corridors, contracting LS Cable for multiple packages. The EU Trans-European Networks for Energy scheme accelerates cross-border approvals, enlarging the addressable wire and cable market. Nordic nations' focus on green hydrogen export compels subsea cable developers to consider dual-use power and data backbones along future hydrogen pipelines.

Sub-Saharan Africa remains the underserved growth frontier. Mission 300 and bilateral climate-finance pledges mobilize USD 40 billion for electrification and extend opportunities in 33-kV medium-voltage feeders, insulated overhead cables, and distribution transformers. Localization clauses within Development Bank tenders encourage joint ventures, nudging global OEMs to upskill regional workforces and transfer quality-assurance protocols.

List of Companies Covered in this Report:

Prysmian Group / Nexans / Sumitomo Electric Industries, Ltd. / LS Cable and System Ltd. / Southwire Company, LLC / Fujikura Ltd. / Furukawa Electric Co., Ltd. / NKT A/S / Belden Inc. / CommScope Holding Co., Inc. / TE Connectivity Ltd. / Corning Incorporated / Leoni AG / Amphenol Corporation / HELUKABEL GmbH / Jiangsu Zhongtian Technology Co., Ltd. / Heng Tong Optic-Electric Co., Ltd. / Riyadh Cables Group / Polycab India Ltd. / KEI Industries Ltd. / ZTT Group /

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