

Saudi Arabia Wires & Cables Market By Voltage (Low, Medium, High, Extra High), By Product (Fiber Optic Cable, Co-Axial Cable, Other Cables), By Material (Copper, Aluminum, Glass), By Installation (Overhead, Underground), By End Use (Aerospace & Defense, Building & Construction, Oil & Gas, Energy & Power, IT & Telecommunication, Others), By Region, Competition, Forecast & Opportunities, 2019-2029F

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Abstracts

Saudi Arabia Wires & Cables Market was valued at USD 5.07 Billion in 2023 and is expected to reach USD 6.51 Billion by 2029 with a CAGR of 4.10% during the forecast period.

The Wires & Cables market encompasses the production, distribution, and sale of electrical and telecommunication cables used across various industries. These products are integral to transmitting electricity and data, ensuring connectivity and power distribution in residential, commercial, and industrial settings. The market includes a wide range of products, such as coaxial cables, fiber optic cables, and power cables, each serving distinct functions in different applications..

Key Market Drivers

Technological Advancements and Smart Grid Development

Technological advancements and the development of smart grids are crucial drivers of the wires and cables market in Saudi Arabia. As the Kingdom modernizes its

infrastructure, there is a growing emphasis on integrating advanced technologies to enhance efficiency, reliability, and sustainability in power distribution and communication networks. The transition towards smart grids is a significant aspect of this modernization, aiming to create an intelligent and automated power distribution system.

Smart grids utilize digital technology to monitor and manage the flow of electricity from generation to consumption. This requires sophisticated cabling solutions capable of handling high-speed data transmission and real-time communication. The deployment of smart meters, sensors, and other smart grid components necessitates advanced wires and cables that can support these technologies. Fiber optic cables, for instance, play a vital role in ensuring fast and reliable data transfer within smart grid systems, enabling better demand management, outage detection, and overall grid efficiency.

The adoption of renewable energy sources, such as solar and wind power, is integral to the Kingdom's Vision 2030. The integration of these renewable energy sources into the national grid requires specialized cables that can handle variable power outputs and ensure stable transmission. The development of large-scale renewable energy projects, like the Sakaka solar power plant and the Dumat Al-Jandal wind farm, drives the demand for high-performance cables capable of supporting these initiatives.

Technological advancements in the field of electric vehicles (EVs) contribute to the growth of the wires and cables market. As Saudi Arabia invests in the development of EV infrastructure, including charging stations and grid enhancements, there is an increasing need for advanced cabling solutions. High-capacity power cables are essential for supporting fast-charging stations, while reliable communication cables are needed for the integration of charging networks with smart grid systems.

Economic Diversification and Industrial Expansion

Economic diversification and industrial expansion are pivotal drivers of the wires and cables market in Saudi Arabia. As the Kingdom seeks to reduce its reliance on oil revenues, it is investing heavily in diversifying its economy through the development of various non-oil sectors. This economic transformation is a core component of Vision 2030, which aims to create a more sustainable and resilient economy.

One of the primary areas of focus for economic diversification is the expansion of the industrial sector. The establishment of new industrial zones and the modernization of existing facilities are crucial to this strategy. Industries such as manufacturing,

petrochemicals, mining, and logistics are witnessing substantial growth, driving the demand for robust and efficient electrical infrastructure. The need for reliable power supply and advanced communication networks in these industrial settings necessitates the use of high-quality wires and cables.

The development of new industrial cities, such as the King Salman Energy Park (SPARK) and the Jubail Industrial City, illustrates the scale of industrial expansion in Saudi Arabia. These projects require extensive electrical and telecommunication systems to support operations, thereby boosting the demand for various types of cables. Power cables are essential for ensuring uninterrupted electricity supply to industrial machinery and facilities, while fiber optic cables are critical for high-speed data communication and automation processes.

The push towards economic diversification includes significant investments in the tourism and entertainment sectors. Projects like the Red Sea Project, Qiddiya, and Al-Ula are aimed at attracting international tourists and boosting the domestic tourism industry. The development of these tourism destinations involves the construction of hotels, resorts, entertainment complexes, and supporting infrastructure, all of which require extensive cabling solutions.

In addition to industrial and tourism developments, the healthcare sector is also expanding as part of the economic diversification efforts. The construction of new hospitals, clinics, and research facilities drives the demand for specialized medical cables and communication networks to support advanced healthcare technologies.

Key Market Challenges

Fluctuating Raw Material Prices

One of the significant challenges facing the Saudi Arabia Wires & Cables market is the fluctuation in raw material prices. The primary materials used in the production of wires and cables include copper, aluminum, and various plastics for insulation. These materials are subject to global market dynamics, which can lead to substantial price volatility. Such fluctuations can have a pronounced impact on the cost structures and profitability of manufacturers within the market.

Copper, for instance, is a crucial component due to its excellent electrical conductivity. However, its price is highly sensitive to global supply and demand factors, geopolitical tensions, and macroeconomic trends. When copper prices surge, manufacturers face

increased production costs, which can erode profit margins if these costs cannot be passed on to consumers. Conversely, significant drops in raw material prices can lead to reduced revenues for suppliers, impacting their financial stability and ability to invest in new technologies or expand production capacities.

Aluminum, another essential raw material, also experiences price volatility driven by factors such as mining output, trade policies, and energy costs associated with aluminum production. Price instability in aluminum can similarly affect the overall cost of cable production, complicating budgeting and financial planning for manufacturers.

The plastics used for insulation and sheathing, such as PVC (polyvinyl chloride) and polyethylene, are derived from petroleum products. Therefore, their prices are influenced by fluctuations in crude oil prices. The volatility in oil markets, influenced by factors like OPEC decisions, geopolitical conflicts, and shifts in global energy demand, can lead to unpredictable costs for these materials, further complicating the financial landscape for cable producers.

To mitigate the impact of raw material price fluctuations, manufacturers may adopt various strategies. These can include entering into long-term contracts with suppliers to stabilize prices, diversifying their supplier base to reduce dependency on any single source, and investing in research and development to explore alternative materials or more efficient production techniques. However, these strategies often come with their own set of challenges and costs.

The fluctuation in raw material prices presents a significant challenge to the Saudi Arabia Wires & Cables market. Managing this volatility requires careful financial planning, strategic sourcing, and continuous innovation, all of which are crucial for maintaining profitability and competitiveness in a market heavily influenced by global economic conditions.

Regulatory Compliance and Quality Standards

Another significant challenge in the Saudi Arabia Wires & Cables market is adhering to stringent regulatory compliance and quality standards. The Kingdom has established rigorous standards to ensure the safety, reliability, and efficiency of electrical and telecommunication systems. These standards, while essential for protecting consumers and maintaining system integrity, pose challenges for manufacturers and suppliers who must continually adapt to evolving regulations.

The Saudi Standards, Metrology, and Quality Organization (SASO) sets stringent requirements for the manufacturing and testing of wires and cables. Compliance with these standards involves rigorous testing procedures, certification processes, and continuous quality assurance measures. For manufacturers, this means investing in advanced testing equipment, maintaining meticulous records, and implementing robust quality control systems. Failure to comply with these standards can result in product recalls, financial penalties, and damage to the company's reputation.

The introduction of new regulations or updates to existing standards can create additional challenges. Manufacturers must stay abreast of regulatory changes and swiftly adapt their production processes to meet new requirements. This often necessitates significant investments in research and development, process re-engineering, and staff training. Smaller manufacturers, in particular, may struggle with the financial and technical resources needed to comply with these evolving standards.

In addition to national regulations, manufacturers in Saudi Arabia must also consider international standards, especially if they aim to export their products. Compliance with global standards such as those set by the International Electrotechnical Commission (IEC) or the American National Standards Institute (ANSI) is essential for accessing international markets. This requires a comprehensive understanding of different regulatory frameworks and the ability to meet diverse quality requirements.

The drive towards sustainability and environmental compliance adds another layer of complexity. Regulations concerning the environmental impact of production processes, the use of hazardous materials, and recycling requirements are becoming increasingly stringent. Manufacturers must adopt environmentally friendly practices, invest in sustainable materials, and ensure that their products meet eco-friendly standards. This shift towards sustainability often involves significant upfront costs and ongoing operational adjustments.

Key Market Trends

Increasing Adoption of Renewable Energy

One of the most notable trends in the Saudi Arabia Wires & Cables market is the increasing adoption of renewable energy sources. Driven by the Kingdom's Vision 2030, which aims to diversify the economy and reduce reliance on fossil fuels, there is a significant push towards integrating renewable energy into the national grid. Projects such as the Sakaka solar power plant and the Dumat Al-Jandal wind farm highlight the

country's commitment to expanding its renewable energy capacity.

The shift towards renewable energy has profound implications for the wires and cables market. Renewable energy systems require specialized cabling solutions to ensure efficient and reliable transmission of electricity from generation sites to the grid. For instance, solar power installations demand high-quality photovoltaic (PV) cables that can withstand harsh environmental conditions and provide long-term durability. Similarly, wind farms require robust and flexible cables that can handle the mechanical stress and environmental exposure associated with wind turbines.

The integration of renewable energy sources into the existing power grid necessitates the development of advanced grid infrastructure. This includes the deployment of smart grid technologies that enhance the efficiency and reliability of power distribution. Smart grids rely heavily on fiber optic cables for high-speed data transmission, enabling real-time monitoring and management of energy flows. The demand for such advanced cabling solutions is expected to grow as Saudi Arabia continues to invest in renewable energy projects and smart grid development.

The focus on renewable energy aligns with global trends towards sustainability and reducing carbon footprints. As Saudi Arabia positions itself as a leader in the renewable energy sector, the wires and cables market will see increased demand for eco-friendly and sustainable cabling solutions. This includes cables made from recyclable materials and those designed to minimize energy losses.

The increasing adoption of renewable energy in Saudi Arabia is a significant trend driving the wires and cables market. The need for specialized cables for solar and wind energy systems, along with the development of smart grid infrastructure, is creating new opportunities for manufacturers. As the Kingdom advances its renewable energy initiatives, the demand for high-quality, durable, and sustainable cabling solutions is expected to rise, shaping the future of the market.

Expansion of Smart Cities

The expansion of smart cities is another prominent trend influencing the Saudi Arabia Wires & Cables market. As part of its Vision 2030, the Kingdom is investing heavily in the development of smart cities that leverage advanced technologies to improve urban living, enhance infrastructure efficiency, and promote sustainability. Projects like NEOM, a futuristic city planned to be powered by renewable energy and equipped with cutting-edge technologies, exemplify this trend.

Smart cities require sophisticated infrastructure that integrates various technologies, including the Internet of Things (IoT), artificial intelligence (AI), and big data analytics. This integration relies on a robust network of wires and cables to ensure seamless connectivity and efficient operation. Fiber optic cables, in particular, play a crucial role in enabling high-speed data transmission and supporting the vast amount of data generated by IoT devices and smart systems. The demand for these cables is expected to grow as more smart city projects are initiated across the Kingdom.

The development of smart cities involves the modernization of existing urban infrastructure. This includes upgrading power distribution networks, implementing smart grids, and enhancing communication systems. Advanced power cables are needed to ensure reliable and efficient electricity supply to support the myriad of smart devices and systems within the city. Moreover, smart grids, which are integral to smart cities, rely on a network of sensors and communication cables to optimize energy distribution and manage demand in real-time.

The focus on sustainability in smart cities also drives the demand for eco-friendly cabling solutions. As these cities aim to minimize their environmental impact, there is a growing preference for cables made from recyclable materials and those designed to reduce energy losses. Manufacturers are increasingly innovating to produce cables that meet these sustainability criteria, aligning with the broader goals of smart city projects.

The implementation of advanced security systems in smart cities requires specialized cabling solutions. These systems, which include surveillance cameras, access control systems, and emergency communication networks, depend on reliable and high-performance cables to function effectively. The expansion of smart cities, therefore, presents significant opportunities for the wires and cables market to provide the necessary infrastructure for these advanced systems.

Segmental Insights

Voltage Insights

The Low held the largest market share in 2023. Saudi Arabia is experiencing significant urbanization driven by Vision 2030, which aims to transform the economic and social landscape of the Kingdom. The construction boom includes residential, commercial, and industrial projects, all of which require extensive low voltage cabling for internal power distribution, lighting, and electrical installations. LV cables are integral to powering

everyday electrical appliances and systems within buildings, making them indispensable in the burgeoning construction sector.

The development of smart cities, such as NEOM and the Red Sea Project, requires sophisticated infrastructure that incorporates numerous low voltage applications. These smart cities are designed with advanced technological frameworks, including IoT devices, smart lighting, and automated systems, all of which rely heavily on LV cabling for efficient operation. The push towards creating interconnected urban spaces further elevates the demand for low voltage cables.

The ongoing modernization of existing urban infrastructure also contributes to the dominance of LV cables. Upgrading outdated electrical systems in older buildings and expanding urban utilities necessitate the replacement and enhancement of low voltage cabling. This ensures safety, reliability, and improved energy efficiency, driving sustained demand in this segment.

The integration of renewable energy sources, such as solar panels in residential and commercial buildings, predominantly involves low voltage applications. Solar energy systems often require LV cables for connecting photovoltaic panels to inverters and for subsequent power distribution within the premises. This trend aligns with Saudi Arabia's commitment to increasing its renewable energy capacity, thereby boosting the LV cable market.

Industries in Saudi Arabia also utilize low voltage cables for a variety of applications, including machinery, control systems, and general power supply. The growth of industrial zones and the establishment of new manufacturing facilities under Vision 2030 further enhance the need for LV cables.

Regional Insights

Riyadh held the largest market share in 2023. Riyadh serves as the political, administrative, and financial hub of Saudi Arabia, hosting numerous government offices, ministries, and financial institutions. This concentration of governmental and administrative functions drives substantial demand for wires and cables to support the infrastructure of government buildings, offices, and related facilities. The need for reliable power distribution, communication networks, and data transmission systems in these administrative centers fuels continuous demand for a variety of cables, including low voltage, medium voltage, and fiber optic cables.

Riyadh is a focal point for industrial and commercial activities. The region hosts numerous industrial zones, business parks, and commercial developments that require extensive electrical and telecommunication infrastructure. Industries such as manufacturing, construction, logistics, and services depend heavily on wires and cables for powering machinery, establishing communication networks, and ensuring operational efficiency. The demand for medium voltage cables, in particular, is driven by industrial applications requiring robust power transmission capabilities.

Riyadh's rapid urbanization and population growth contribute to increased demand for residential infrastructure. As the capital city experiences urban expansion, there is a continuous need for low voltage cables for residential buildings, apartments, and housing complexes. The construction of new residential areas and the modernization of existing ones necessitate comprehensive electrical wiring and distribution systems, supporting the city's growing population and urban development goals.

Riyadh's strategic location and connectivity make it a central node for transportation and logistics networks in Saudi Arabia. The region's transportation infrastructure, including highways, railways, and airports, relies on cables for powering lighting systems, control mechanisms, and communication networks. This infrastructure connectivity further boosts the demand for wires and cables, including those required for transportation-related applications.

Key Market Players

Prysmian S.p.A

Nexans

Sumitomo Electric Group

Furukawa Electric Co., Ltd

LS Cable & System Ltd.

Leoni AG

Fujikura Ltd.

Encore Wire Corporation

NKT A/S

Belden Inc.

Report Scope:

In this report, the Saudi Arabia Wires & Cables Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Saudi Arabia Wires & Cables Market, By Voltage:

Low

Medium

High

Extra High

Saudi Arabia Wires & Cables Market, By Product:

Fiber Optic Cable

Co-Axial Cable

Other Cables

Saudi Arabia Wires & Cables Market, By Material:

Copper

Aluminum

Glass

Saudi Arabia Wires & Cables Market, By Installation:

Overhead

Underground

Saudi Arabia Wires & Cables Market, By End Use:

Aerospace & Defense

Building & Construction

Oil & Gas

Energy & Power

IT & Telecommunication

Others

Saudi Arabia Wires & Cables Market, By Region:

Riyadh

Makkah

Madinah

Eastern Province

Dammam

Rest of Saudi Arabia

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Saudi Arabia Wires & Cables Market.

Available Customizations:

Saudi Arabia Wires & Cables Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

Contents

1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
 - 1.2.3. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Formulation of the Scope
- 2.4. Assumptions and Limitations
- 2.5. Sources of Research
 - 2.5.1. Secondary Research
 - 2.5.2. Primary Research
- 2.6. Approach for the Market Study
 - 2.6.1. The Bottom-Up Approach
 - 2.6.2. The Top-Down Approach
- 2.7. Methodology Followed for Calculation of Market Size & Market Shares
- 2.8. Forecasting Methodology
 - 2.8.1. Data Triangulation & Validation

3. EXECUTIVE SUMMARY

4. VOICE OF CUSTOMER

5. SAUDI ARABIA WIRES & CABLES MARKET OVERVIEW

6. SAUDI ARABIA WIRES & CABLES MARKET OUTLOOK

- 6.1. Market Size & Forecast
 - 6.1.1. By Value
- 6.2. Market Share & Forecast
 - 6.2.1. By Voltage (Low, Medium, High, Extra High)
 - 6.2.2. By Product (Fiber Optic Cable, Co-Axial Cable, Other Cables)

- 6.2.3.By Material (Copper, Aluminum, Glass)
- 6.2.4.By Installation (Overhead, Underground)
- 6.2.5.By End Use (Aerospace & Defense, Building & Construction, Oil & Gas, Energy & Power, IT & Telecommunication, Others)
- 6.2.6.By Region (Riyadh, Makkah, Madinah, Eastern Province, Dammam, Rest of Saudi Arabia)
- 6.3. By Company (2023)
- 6.4. Market Map

7. RIYADH WIRES & CABLES MARKET OUTLOOK

- 7.1. Market Size & Forecast
 - 7.1.1.By Value
- 7.2. Market Share & Forecast
 - 7.2.1.By Voltage
 - 7.2.2.By Product
 - 7.2.3.By Material
 - 7.2.4.By Installation
 - 7.2.5.By End Use

8. MAKKAH WIRES & CABLES MARKET OUTLOOK

- 8.1. Market Size & Forecast
 - 8.1.1.By Value
- 8.2. Market Share & Forecast
 - 8.2.1.By Voltage
 - 8.2.2.By Product
 - 8.2.3.By Material
 - 8.2.4.By Installation
 - 8.2.5.By End Use

9. MADINAH WIRES & CABLES MARKET OUTLOOK

- 9.1. Market Size & Forecast
 - 9.1.1.By Value
- 9.2. Market Share & Forecast
 - 9.2.1.By Voltage
 - 9.2.2.By Product
 - 9.2.3.By Material

- 9.2.4.By Installation
- 9.2.5.By End Use

10. EASTERN PROVINCE WIRES & CABLES MARKET OUTLOOK

- 10.1. Market Size & Forecast
 - 10.1.1.By Value
- 10.2. Market Share & Forecast
 - 10.2.1.By Voltage
 - 10.2.2.By Product
 - 10.2.3.By Material
 - 10.2.4.By Installation
 - 10.2.5.By End Use

11. DAMMAM WIRES & CABLES MARKET OUTLOOK

- 11.1. Market Size & Forecast
 - 11.1.1.By Value
- 11.2. Market Share & Forecast
 - 11.2.1.By Voltage
 - 11.2.2.By Product
 - 11.2.3.By Material
 - 11.2.4.By Installation
 - 11.2.5.By End Use

12. MARKET DYNAMICS

- 12.1. Drivers
- 12.2. Challenges

13. MARKET TRENDS AND DEVELOPMENTS

14. SAUDI ARABIA ECONOMIC PROFILE

15. COMPANY PROFILES

- 15.1. Prysmian S.p.A
 - 15.1.1. Business Overview
 - 15.1.2. Key Revenue and Financials

- 15.1.3. Recent Developments
- 15.1.4. Key Personnel/Key Contact Person
- 15.1.5. Key Product/Services Offered
- 15.2. Nexans
 - 15.2.1. Business Overview
 - 15.2.2. Key Revenue and Financials
 - 15.2.3. Recent Developments
 - 15.2.4. Key Personnel/Key Contact Person
 - 15.2.5. Key Product/Services Offered
- 15.3. Sumitomo Electric Group
 - 15.3.1. Business Overview
 - 15.3.2. Key Revenue and Financials
 - 15.3.3. Recent Developments
 - 15.3.4. Key Personnel/Key Contact Person
 - 15.3.5. Key Product/Services Offered
- 15.4. Furukawa Electric Co., Ltd
 - 15.4.1. Business Overview
 - 15.4.2. Key Revenue and Financials
 - 15.4.3. Recent Developments
 - 15.4.4. Key Personnel/Key Contact Person
 - 15.4.5. Key Product/Services Offered
- 15.5. LS Cable & System Ltd.
 - 15.5.1. Business Overview
 - 15.5.2. Key Revenue and Financials
 - 15.5.3. Recent Developments
 - 15.5.4. Key Personnel/Key Contact Person
 - 15.5.5. Key Product/Services Offered
- 15.6. Leoni AG
 - 15.6.1. Business Overview
 - 15.6.2. Key Revenue and Financials
 - 15.6.3. Recent Developments
 - 15.6.4. Key Personnel/Key Contact Person
 - 15.6.5. Key Product/Services Offered
- 15.7. Fujikura Ltd.
 - 15.7.1. Business Overview
 - 15.7.2. Key Revenue and Financials
 - 15.7.3. Recent Developments
 - 15.7.4. Key Personnel/Key Contact Person
 - 15.7.5. Key Product/Services Offered

15.8. Encore Wire Corporation

15.8.1. Business Overview

15.8.2. Key Revenue and Financials

15.8.3. Recent Developments

15.8.4. Key Personnel/Key Contact Person

15.8.5. Key Product/Services Offered

15.9. NKT A/S

15.9.1. Business Overview

15.9.2. Key Revenue and Financials

15.9.3. Recent Developments

15.9.4. Key Personnel/Key Contact Person

15.9.5. Key Product/Services Offered

15.10. Belden Inc.

15.10.1. Business Overview

15.10.2. Key Revenue and Financials

15.10.3. Recent Developments

15.10.4. Key Personnel/Key Contact Person

15.10.5. Key Product/Services Offered

16. STRATEGIC RECOMMENDATIONS**17. ABOUT US & DISCLAIMER**

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