

Low Voltage Cable Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028F Segmented By Installation (Overhead, and Underground), By Overhead Product (Conductors, Fittings and Fixtures, Others), By Underground Product (PVC Cables, XLPE Cables, Cable Terminations, Cable Joints, Others), By End-user (Infrastructure, Industrial, and Renewables), By Region, Competition

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Abstracts

Global Low Voltage Cable Market is expected to grow at a robust CAGR during the forecast period. Low voltage cable is a type of electrical cable designed to transmit electrical power or signals at a low voltage level, typically between 50 and 1000 volts. These cables are commonly used in a wide range of applications, including residential and commercial buildings, industrial plants, and telecommunications networks.

Low voltage cables come in various sizes, types, and configurations, depending on the specific application and the required voltage level. Some common types of low voltage cables include power cables, control cables, instrumentation cables and communication cables. Power cables are used to transmit electrical power from one location to another, typically between power stations, substations, and distribution points. Control cables are used to transmit signals and control commands between different devices and equipment, such as motors, sensors, and switches. Instrumentation cables are used to transmit signals from measuring instruments, such as temperature, pressure, and flow sensors, to monitoring and control systems. Communication cables are used to transmit data and voice signals in telecommunication networks, such as telephone and internet

systems. Low voltage cables can be made of various materials, including copper, aluminum, and fiber optic. Copper is the most common material used in power and control cables, while fiber optic cables are used for high-speed data transmission in communication networks.

Overall, low voltage cables are essential components of modern electrical and telecommunication systems, providing reliable and efficient transmission of power and signals over long distances.

Rising incorporation of smart grid networks

The incorporation of smart grid networks is expected to drive the growth of the Global Low Voltage Cable Market. Smart grid networks require a reliable and efficient transmission and distribution of electricity, which can be facilitated using low voltage cables.

Low voltage cables are used for transmitting electricity from distribution transformers to various end-users such as residential, commercial, and industrial consumers. With the increasing adoption of renewable energy sources, such as solar and wind, and the growing demand for energy-efficient solutions, the demand for low voltage cables is expected to increase.

In addition, the development of smart cities and the increasing need for real-time monitoring and control of power distribution systems is driving the adoption of smart grid networks, which require advanced low voltage cables. These cables are designed to handle high current loads, withstand harsh environments, and provide reliable power transmission.

Furthermore, the increasing focus on upgrading aging infrastructure and improving the reliability and efficiency of power distribution systems is also driving the demand for low voltage cables. Governments around the world are investing in upgrading their power infrastructure, which is expected to drive the growth of the global low voltage cable market.

Overall, the incorporation of smart grid networks is expected to drive the growth of the global Low Voltage Cable Market, as these networks require advanced low voltage cables that can handle high current loads, withstand harsh environments, and provide reliable power transmission.

Growing demand for uninterrupted power supply is primarily driving the global low voltage cable market

Low voltage cables are an essential component of power distribution systems, and they are used to transmit electrical power from one point to another at low voltage levels. With the increasing demand for uninterrupted power supply, the demand for low voltage cables has also been increasing.

Uninterrupted power supply (UPS) is critical for many applications, including data centers, hospitals, manufacturing facilities, and other commercial and industrial operations that require a continuous power supply. The growing reliance on electronic devices and the increasing need for backup power solutions have contributed to the growth of the UPS market, which, in turn, has boosted the demand for low voltage cables.

Moreover, the growth of renewable energy sources such as solar and wind power has also contributed to the demand for low voltage cables. These sources of energy require low voltage cables for their distribution and transmission. In conclusion, the growing demand for uninterrupted power supply is one of the major factors driving the global low voltage cable market.

Raw Material Price Volatility of Low Voltage Cable

The global low voltage cable market is susceptible to raw material price volatility, as the cost of materials such as copper and aluminum can have a significant impact on the overall cost of production. Copper and aluminum are commonly used as conductors in low voltage cables, and their prices can fluctuate based on a variety of factors such as supply and demand, geopolitical events, and changes in global economic conditions.

In recent years, there have been instances where the prices of copper and aluminum have experienced significant fluctuations, which has had a direct impact on the global low voltage cable market. When raw material prices increase, manufacturers may need to increase the prices of their products to maintain profitability, which can reduce demand for low voltage cables in the market. Conversely, when raw material prices decrease, manufacturers may be able to offer lower prices, which can increase demand for low voltage cables.

To mitigate the impact of raw material price volatility, manufacturers may employ various strategies such as hedging, sourcing raw materials from different suppliers, or

exploring alternative materials that may be less susceptible to price fluctuations. Additionally, manufacturers may also need to adjust their pricing strategies and supply chain management practices to adapt to changing market conditions.

Growing Demand for Underground Low Voltage Cables

An underground low voltage cable is a type of electrical cable designed for use in underground applications where a lower voltage is required. These cables are typically used to transmit electricity from a power source to various electrical devices and equipment, such as lights, motors, and appliances.

Underground low voltage cables are generally made up of a series of insulated conductors that are wrapped in a protective sheath. The insulation on the conductors serves to prevent electrical current from escaping and meeting the surrounding environment. The sheath helps to protect the cables from damage caused by moisture and chemicals.

Low voltage cables are typically used in residential, commercial, and industrial settings as they are used to power lighting systems, heating and cooling systems, and other electronic devices. Low voltage cables are also commonly used in telecommunications systems, where they are used to transmit data signals between devices.

Market Segmentation

Based on Installation, the market is segmented into Overhead, and Underground. Based on Overhead Product, the market is segmented into Conductors, Fittings and Fixtures, Others. Based on Underground Product, the market is segmented into PVC Cables, XLPE Cables, Cable Terminations, Cable Joints, Others. Based on End-User, the market is segmented into Infrastructure, Industrial, and Renewables.

Company Profiles

The Global Low Voltage Cable market is a growing industry and is becoming increasingly competitive. This has led to the emergence of new players in the market and increased competition among existing companies. This trend has led to the development of new technologies and solutions for low voltage cables, further increasing competition in the market.

Some of the major players in the Global Low Voltage Cable Market include Prysmian

Group, Nexans S.A, General Cable, ABB Group, Sumitomo Electric Industries, NK Communications, Encore Wire Corporation, Finolex Cables, TE Connectivity, Caledonian Cables, Polycab Wires, Leoni AG, Southwire Company, LLC, Wanda Group and Hangzhou Cable

Report Scope:

In this report, the Global Low Voltage Cable Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Low Voltage Cable Market, By Installation:

Overhead

Underground

Low Voltage Cable Market, By Overhead Product:

Conductors

Fittings and Fixtures

Others

Low Voltage Cable Market, By Underground Product:

PVC Cables

XLPE Cables

Cable Terminations

Cable Joints

Others

Low Voltage Cable Market, By End-User:

Infrastructure

Industrial

Renewables

Low Voltage Cable Market, By Region:

Asia-Pacific

China

Japan

India

Australia

South Korea

North America

United States

Canada

Mexico

Europe

United Kingdom

Germany

France

Spain

Italy

Middle East & Africa

Israel

Turkey

Saudi Arabia

UAE

South America

Brazil

Argentina

Colombia

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Low Voltage Cable Market.

Available Customizations:

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).

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