

# **Medium Voltage Cable Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Product (Termination Cables, Joints, Cross-Linked Polyethylene (XLPE) Cables, Other), By Installation (Underground, Submarine, Overhead), By Application (Industrial, Commercial, Utility), By Region, By Competition, 2020-2030F**

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## **Abstracts**

### Market Overview

The Global Medium Voltage Cable Market was valued at USD 51.6 billion in 2024 and is projected to reach USD 70.6 billion by 2030, expanding at a CAGR of 5.2% during the forecast period. This growth is driven by the accelerating pace of infrastructure development, the widespread integration of renewable energy sources, and increasing demand for efficient electricity distribution systems. Governments and utilities across both developed and emerging economies are investing in modern grid infrastructure to ensure reliable power transmission across urban, industrial, and rural areas. The growing deployment of solar and wind farms has created substantial demand for medium voltage cables that connect generation points to substations. These developments, along with supportive regulatory policies and sustainability goals, are reinforcing the adoption of MV cable systems worldwide.

### Key Market Drivers

#### Growing Renewable Energy Integration and Grid Modernization

The global transition toward renewable energy is one of the primary forces fueling

demand in the medium voltage cable market. As countries commit to decarbonization, the development of large-scale solar, wind, and hydroelectric projects is gaining momentum. These installations, particularly in remote and offshore locations, depend on MV cables to transfer power from generation sites to central grid systems. Offshore wind farms, for example, require robust submarine MV cable infrastructure to deliver electricity to onshore substations. At the same time, grid modernization initiatives—focused on improving reliability, automation, and sustainability—are prompting utilities to upgrade legacy power distribution networks. Medium voltage cables are central to this transition, enabling more flexible and resilient energy infrastructure.

## Key Market Challenges

### Volatility in Raw Material Prices and Supply Chain Disruptions

A major challenge faced by the medium voltage cable industry is the fluctuation in prices of critical raw materials like copper, aluminum, and insulation polymers. These materials account for a significant portion of cable production costs, and their pricing is often impacted by factors such as global demand shifts, trade regulations, and geopolitical events. Copper, in particular, remains highly volatile due to its widespread use across sectors, including automotive and renewable energy. Disruptions in the global supply chain, whether due to logistics bottlenecks or resource scarcity, can further elevate costs and affect production timelines. These issues can limit profitability for manufacturers and delay infrastructure projects, particularly in cost-sensitive markets.

## Key Market Trends

### Rising Adoption of Smart Grid Infrastructure and Digital Monitoring Systems

An emerging trend in the medium voltage cable market is the adoption of digital technologies that enhance grid efficiency and fault detection. Utilities are increasingly deploying smart grid systems, which rely on data-driven tools to monitor and manage energy distribution in real time. Modern MV cables are being developed with integrated fiber optics, embedded sensors, and advanced insulation materials to support digital monitoring. These features allow for real-time performance tracking, identification of partial discharges, and predictive maintenance, minimizing downtime and extending asset lifespan. The integration of Internet of Things (IoT) platforms and analytics tools is enhancing grid intelligence and contributing to more sustainable and automated energy systems worldwide.

## Key Market Players

Prysmian Group

Nexans S.A.

Southwire Company, LLC

General Cable Technologies Corporation

LS Cable & System Ltd.

Sumitomo Electric Industries, Ltd.

Dubai Cable Company (Pvt) Ltd. (Ducab)

TF Kable Group (Tele-Fonika Kable S.A.)

## Report Scope:

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

### Medium Voltage Cable Market, By Product:

Termination Cables

Joints

Cross-Linked Polyethylene (XLPE) Cables

Other

### Medium Voltage Cable Market, By Application:

Industrial

Commercial

Utility

### Medium Voltage Cable Market, By Installation:

Underground

Submarine

Overhead

### Medium Voltage Cable Market, By Region:

North America

United States

Canada

Mexico

Europe

Germany

France

United Kingdom

Italy

Spain

## Asia Pacific

China

India

Japan

South Korea

Australia

## South America

Brazil

Colombia

Argentina

## Middle East & Africa

Saudi Arabia

UAE

South Africa

## Competitive Landscape

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

## Available Customizations:

Global Medium Voltage Cable 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. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

### **3. EXECUTIVE SUMMARY**

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, and Trends

### **4. VOICE OF CUSTOMER**

### **5. GLOBAL MEDIUM VOLTAGE CABLE MARKET OUTLOOK**

- 5.1. Market Size & Forecast
  - 5.1.1. By Value
- 5.2. Market Share & Forecast
  - 5.2.1. By Product (Termination Cables, Joints, Cross-Linked Polyethylene (XLPE) Cables, Other)
  - 5.2.2. By Application (Industrial, Commercial, Utility)
  - 5.2.3. By Installation (Underground, Submarine, Overhead)

- 5.2.4. By Region (North America, Europe, South America, Middle East & Africa, Asia Pacific)
- 5.3. By Company (2024)
- 5.4. Market Map

## **6. NORTH AMERICA MEDIUM VOLTAGE CABLE MARKET OUTLOOK**

- 6.1. Market Size & Forecast
  - 6.1.1. By Value
- 6.2. Market Share & Forecast
  - 6.2.1. By Product
  - 6.2.2. By Application
  - 6.2.3. By Installation
  - 6.2.4. By Country
- 6.3. North America: Country Analysis
  - 6.3.1. United States Medium Voltage Cable Market Outlook
    - 6.3.1.1. Market Size & Forecast
      - 6.3.1.1.1. By Value
    - 6.3.1.2. Market Share & Forecast
      - 6.3.1.2.1. By Product
      - 6.3.1.2.2. By Application
      - 6.3.1.2.3. By Installation
  - 6.3.2. Canada Medium Voltage Cable Market Outlook
    - 6.3.2.1. Market Size & Forecast
      - 6.3.2.1.1. By Value
    - 6.3.2.2. Market Share & Forecast
      - 6.3.2.2.1. By Product
      - 6.3.2.2.2. By Application
      - 6.3.2.2.3. By Installation
  - 6.3.3. Mexico Medium Voltage Cable Market Outlook
    - 6.3.3.1. Market Size & Forecast
      - 6.3.3.1.1. By Value
    - 6.3.3.2. Market Share & Forecast
      - 6.3.3.2.1. By Product
      - 6.3.3.2.2. By Application
      - 6.3.3.2.3. By Installation

## **7. EUROPE MEDIUM VOLTAGE CABLE MARKET OUTLOOK**

- 7.1. Market Size & Forecast
  - 7.1.1. By Value
- 7.2. Market Share & Forecast
  - 7.2.1. By Product
  - 7.2.2. By Application
  - 7.2.3. By Installation
  - 7.2.4. By Country
- 7.3. Europe: Country Analysis
  - 7.3.1. Germany Medium Voltage Cable Market Outlook
    - 7.3.1.1. Market Size & Forecast
      - 7.3.1.1.1. By Value
    - 7.3.1.2. Market Share & Forecast
      - 7.3.1.2.1. By Product
      - 7.3.1.2.2. By Application
      - 7.3.1.2.3. By Installation
  - 7.3.2. France Medium Voltage Cable Market Outlook
    - 7.3.2.1. Market Size & Forecast
      - 7.3.2.1.1. By Value
    - 7.3.2.2. Market Share & Forecast
      - 7.3.2.2.1. By Product
      - 7.3.2.2.2. By Application
      - 7.3.2.2.3. By Installation
  - 7.3.3. United Kingdom Medium Voltage Cable Market Outlook
    - 7.3.3.1. Market Size & Forecast
      - 7.3.3.1.1. By Value
    - 7.3.3.2. Market Share & Forecast
      - 7.3.3.2.1. By Product
      - 7.3.3.2.2. By Application
      - 7.3.3.2.3. By Installation
  - 7.3.4. Italy Medium Voltage Cable Market Outlook
    - 7.3.4.1. Market Size & Forecast
      - 7.3.4.1.1. By Value
    - 7.3.4.2. Market Share & Forecast
      - 7.3.4.2.1. By Product
      - 7.3.4.2.2. By Application
      - 7.3.4.2.3. By Installation
  - 7.3.5. Spain Medium Voltage Cable Market Outlook
    - 7.3.5.1. Market Size & Forecast
      - 7.3.5.1.1. By Value

#### 7.3.5.2. Market Share & Forecast

##### 7.3.5.2.1. By Product

##### 7.3.5.2.2. By Application

##### 7.3.5.2.3. By Installation

## **8. ASIA PACIFIC MEDIUM VOLTAGE CABLE MARKET OUTLOOK**

### 8.1. Market Size & Forecast

#### 8.1.1. By Value

### 8.2. Market Share & Forecast

#### 8.2.1. By Product

#### 8.2.2. By Application

#### 8.2.3. By Installation

#### 8.2.4. By Country

### 8.3. Asia Pacific: Country Analysis

#### 8.3.1. China Medium Voltage Cable Market Outlook

##### 8.3.1.1. Market Size & Forecast

###### 8.3.1.1.1. By Value

##### 8.3.1.2. Market Share & Forecast

###### 8.3.1.2.1. By Product

###### 8.3.1.2.2. By Application

###### 8.3.1.2.3. By Installation

#### 8.3.2. India Medium Voltage Cable Market Outlook

##### 8.3.2.1. Market Size & Forecast

###### 8.3.2.1.1. By Value

##### 8.3.2.2. Market Share & Forecast

###### 8.3.2.2.1. By Product

###### 8.3.2.2.2. By Application

###### 8.3.2.2.3. By Installation

#### 8.3.3. Japan Medium Voltage Cable Market Outlook

##### 8.3.3.1. Market Size & Forecast

###### 8.3.3.1.1. By Value

##### 8.3.3.2. Market Share & Forecast

###### 8.3.3.2.1. By Product

###### 8.3.3.2.2. By Application

###### 8.3.3.2.3. By Installation

#### 8.3.4. South Korea Medium Voltage Cable Market Outlook

##### 8.3.4.1. Market Size & Forecast

###### 8.3.4.1.1. By Value

- 8.3.4.2. Market Share & Forecast
  - 8.3.4.2.1. By Product
  - 8.3.4.2.2. By Application
  - 8.3.4.2.3. By Installation
- 8.3.5. Australia Medium Voltage Cable Market Outlook
  - 8.3.5.1. Market Size & Forecast
    - 8.3.5.1.1. By Value
  - 8.3.5.2. Market Share & Forecast
    - 8.3.5.2.1. By Product
    - 8.3.5.2.2. By Application
    - 8.3.5.2.3. By Installation

## **9. MIDDLE EAST & AFRICA MEDIUM VOLTAGE CABLE MARKET OUTLOOK**

- 9.1. Market Size & Forecast
  - 9.1.1. By Value
- 9.2. Market Share & Forecast
  - 9.2.1. By Product
  - 9.2.2. By Application
  - 9.2.3. By Installation
  - 9.2.4. By Country
- 9.3. Middle East & Africa: Country Analysis
  - 9.3.1. Saudi Arabia Medium Voltage Cable Market Outlook
    - 9.3.1.1. Market Size & Forecast
      - 9.3.1.1.1. By Value
    - 9.3.1.2. Market Share & Forecast
      - 9.3.1.2.1. By Product
      - 9.3.1.2.2. By Application
      - 9.3.1.2.3. By Installation
  - 9.3.2. UAE Medium Voltage Cable Market Outlook
    - 9.3.2.1. Market Size & Forecast
      - 9.3.2.1.1. By Value
    - 9.3.2.2. Market Share & Forecast
      - 9.3.2.2.1. By Product
      - 9.3.2.2.2. By Application
      - 9.3.2.2.3. By Installation
  - 9.3.3. South Africa Medium Voltage Cable Market Outlook
    - 9.3.3.1. Market Size & Forecast
      - 9.3.3.1.1. By Value

### 9.3.3.2. Market Share & Forecast

#### 9.3.3.2.1. By Product

#### 9.3.3.2.2. By Application

#### 9.3.3.2.3. By Installation

## 10. SOUTH AMERICA MEDIUM VOLTAGE CABLE MARKET OUTLOOK

### 10.1. Market Size & Forecast

#### 10.1.1. By Value

### 10.2. Market Share & Forecast

#### 10.2.1. By Product

#### 10.2.2. By Application

#### 10.2.3. By Installation

#### 10.2.4. By Country

### 10.3. South America: Country Analysis

#### 10.3.1. Brazil Medium Voltage Cable Market Outlook

##### 10.3.1.1. Market Size & Forecast

###### 10.3.1.1.1. By Value

##### 10.3.1.2. Market Share & Forecast

###### 10.3.1.2.1. By Product

###### 10.3.1.2.2. By Application

###### 10.3.1.2.3. By Installation

#### 10.3.2. Colombia Medium Voltage Cable Market Outlook

##### 10.3.2.1. Market Size & Forecast

###### 10.3.2.1.1. By Value

##### 10.3.2.2. Market Share & Forecast

###### 10.3.2.2.1. By Product

###### 10.3.2.2.2. By Application

###### 10.3.2.2.3. By Installation

#### 10.3.3. Argentina Medium Voltage Cable Market Outlook

##### 10.3.3.1. Market Size & Forecast

###### 10.3.3.1.1. By Value

##### 10.3.3.2. Market Share & Forecast

###### 10.3.3.2.1. By Product

###### 10.3.3.2.2. By Application

###### 10.3.3.2.3. By Installation

## 11. MARKET DYNAMICS

- 11.1. Drivers
- 11.2. Challenges

## **12. MARKET TRENDS AND DEVELOPMENTS**

- 12.1. Merger & Acquisition (If Any)
- 12.2. Product Launches (If Any)
- 12.3. Recent Developments

## **13. COMPANY PROFILES**

- 13.1. Prysmian Group
  - 13.1.1. Business Overview
  - 13.1.2. Key Revenue and Financials
  - 13.1.3. Recent Developments
  - 13.1.4. Key Personnel
  - 13.1.5. Key Product/Services Offered
- 13.2. Nexans S.A.
- 13.3. Southwire Company, LLC
- 13.4. General Cable Technologies Corporation
- 13.5. LS Cable & System Ltd.
- 13.6. Sumitomo Electric Industries, Ltd.
- 13.7. Dubai Cable Company (Pvt) Ltd. (Ducab)
- 13.8. TF Kable Group (Tele-Fonika Kable S.A.)

## **14. STRATEGIC RECOMMENDATIONS**

## **15. ABOUT US & DISCLAIMER**

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