

# **Flame Retardant Cable Market By Insulation Material (EPR, LSZH, PVC, XLPE) , By Voltage Range (Low Voltage, Medium Voltage, High Voltage) By End Use Industry (Automotive and Transportation, Building and Construction, Energy, Manufacturing) : Global Opportunity Analysis and Industry Forecast, 2024-2032**

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## **Abstracts**

### Flame Retardant Cable Market

The flame retardant cable market was valued at \$2.1 billion in 2023 and is projected to reach \$2.9 billion by 2032, growing at a CAGR of 3.5% from 2024 to 2032.

A flame retardant cable is a specialized form of electric cable designed to inhibit the spread of fire along its length. Such cables operate for a fixed duration under fixed conditions and are necessary to maintain the integrity of circuits. The material used to construct flame retardant cables is able to sustain high temperatures and resist combustion, hence lowering the risk of fire accidents in electrical settings.

The flame retardant cable market is driven due to an increase in awareness regarding the importance of installing flame retardant cables, as the incidence of fire accidents has boosted globally. Moreover, rise in urbanization is boosting the development of infrastructure, hence propelling the demand for cables. The trend of environmental sustainability has entered the flame retardant cable market, discarding the use of polyvinyl chloride (PVC) for cable sheath. PVC is being replaced by halogen-free flame retardants which do not emit harmful gases into the surroundings.

However, fluctuations in the prices of raw materials used to manufacture flame retardant cables lead to uncertainty in the market landscape. This volatility of prices hampers the value chain and influences the profit margin of manufacturers. On the contrary, the constant R&D efforts enduring in the market landscape are an indicator of its promising and innovative future. For instance, the integration of cables with smart sensors to detect potential fire is a recent innovation in the market. The sensor detects the heating of cables by analyzing the suspended particles and gases inside the switchboard, along with threatening modifications in cable insulators. Upon detection, such sensors send alerts through SMS or email, hence preventing massive fire outbreaks.

## Segment Review

The global flame retardant cable market is segmented into insulation material, voltage range, end-use industry, and region. Depending on insulation material, the market is divided into EPR, LSZH, PVC, XLPE. On the basis of voltage range, it is classified into low voltage, medium voltage, and high voltage. As per end-use industry, it is categorized into automotive & transportation, building & construction, energy, and manufacturing. Region wise, it is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

## Key Findings

Depending on insulation material, the XLPE segment dominates the market.

On the basis of voltage range, the low voltage segment exhibits the highest growth.

As per end-use industry, the building & construction segment leads the market.

Region wise, Asia-Pacific is the highest revenue generator in the market.

## Competition Analysis

The major players operating in the global flame retardant cable market are Prysmian Group, Nexans S.A., NKT Group, LS Cable & System Limited, Leone AG, Jiangnan Group Limited, Tratos Limited, EL Sewedy Electric Company, Sumitomo Electric Industries. Ltd., Yazaki Corporation, SWCC Sjowa Cable Systems Co. Ltd, and Renesas Electronics. These players have adopted various key developmental strategies such as business expansion, new product launches, and partnerships

to strengthen their foothold in the market.

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Product Life Cycles

New Product Development/ Product Matrix of Key Players

Patient/epidemiology data at country, region, global level

Historic market data

Key player details (including location, contact details, supplier/vendor network etc. in excel format)

List of customers/consumers/raw material suppliers- value chain analysis

SWOT Analysis

## Key Market Segments

### By Insulation Material

EPR

LSZH

PVC

XLPE

### By Voltage Range

Low Voltage

Medium Voltage

High Voltage

### By End Use Industry

Automotive and Transportation

Building and Construction

Energy

Manufacturing

## By Region

North America

U.S.

Canada

Mexico

Europe

France

Germany

Italy

UK

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Rest of Asia-Pacific

LAMEA

Latin America

Middle East

Africa

Key Market Players

Prysmian Group

Nexans S.A.

NKT Group

LS Cable & System Limited

Leone AG

Jiangnan Group Limited

Tratos Limited

EL Sewedy Electric Company

Sumitom%li%Electric Industries. Ltd.

Yazaki Corporation, SWCC Sjowa Cable Systems Co. Ltd

Renesas Electronics

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