

Global Nuclear-grade Class 1E Cables Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Nuclear-grade Class 1E Cables market size was valued at US\$ 1035 million in 2025 and is forecast to a readjusted size of US\$ 1496 million by 2032 with a CAGR of 5.5% during review period.

In 2025, the global production of nuclear-grade class 1E cables reached approximately 6,700 km, with an average global market price of around US\$150,000/km. In the same year, the global total production capacity of nuclear-grade class 1E cables reached 8,375 km. The industry average gross profit margin of this product reached 36%.

Nuclear-grade Class 1E cables are power and signal transmission cables classified as "safety-related" for use in nuclear power plant safety systems. Their defining characteristic is the ability to maintain specified electrical and mechanical performance under Design Basis Accident (DBA) scenarios and extreme environmental conditions, thereby ensuring the proper functioning of critical operations such as safe reactor shutdown, residual heat removal, emergency power supply, and safety monitoring. These cables must meet rigorous requirements including resistance to radiation, high temperatures, fire, aging, heat and humidity, and chemical corrosion and undergo validation through nuclear-grade certification standards such as IEEE 383, IEEE 323, and IEC 60780. They are typically deployed in safety systems located both inside and outside the containment structure.

The upstream segment of the Class 1E cable industry chain comprises suppliers of high-purity copper/aluminum conductors, specialty insulation materials, flame-retardant and radiation-resistant additives, and metal shielding materials. The midstream consists of nuclear-grade cable design and manufacturing enterprises that possess nuclear quality

assurance systems, material radiation testing capabilities, and type-test certification capabilities; key manufacturing processes include radiation cross-linking, triple-layer co-extrusion insulation, and fire-resistant mica tape wrapping. The downstream segment includes nuclear EPC contractors, nuclear power plant operators, and equipment integrators. These cables are ultimately applied in critical areas such as nuclear island safety systems, emergency power systems, and control and instrumentation (I&C) systems. Their product lifecycle is closely tied to the lifespan of the nuclear power plant, creating a market for periodic aging assessments and replacement services.

Driven by the global shift toward a low-carbon energy mix and the renewed expansion of nuclear power, the market for Class 1E cables is experiencing steady growth. On one hand, the commercialization of Small Modular Reactors (SMRs) is generating new demand for cables; on the other, life-extension upgrades for existing nuclear units are driving the need for the replacement and upgrading of safety-grade cables. Simultaneously, increasingly stringent nuclear safety standards are raising both unit prices and technical barriers to entry. Overall, this sector is characterized by low-frequency procurement, high certification barriers, and long-term maintenance requirements; while industry growth is stable, structural opportunities are concentrated among enterprises possessing high-end nuclear-grade materials and strong certification capabilities.

This report is a detailed and comprehensive analysis for global Nuclear-grade Class 1E Cables market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Nuclear-grade Class 1E Cables market size and forecasts, in consumption value (\$ Million), sales quantity (K Meter), and average selling prices (US\$/K Meter), 2021-2032

Global Nuclear-grade Class 1E Cables market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Meter), and average selling prices (US\$/K Meter), 2021-2032

Global Nuclear-grade Class 1E Cables market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Meter), and average selling prices (US\$/K Meter), 2021-2032

Global Nuclear-grade Class 1E Cables market shares of main players, shipments in revenue (\$ Million), sales quantity (K Meter), and ASP (US\$/K Meter), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries

- To assess the growth potential for Nuclear-grade Class 1E Cables

- To forecast future growth in each product and end-use market

- To assess competitive factors affecting the marketplace

This report profiles key players in the global Nuclear-grade Class 1E Cables market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Nexans, Eupen Cable, Shawflex, Prysmian, LS Cable & System, Taihan Cable & Solution, The Okonite Company, General Cable, Habia Cable, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Nuclear-grade Class 1E Cables market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Power Cables

Control Cables

Instrumentation Cables

Signal Cables

Communication Cables

Fiber Optic Cables

Market segment by Structural Configuration

Single-core Cable

Multi-core Cable

Market segment by Application

Nuclear Island

Conventional Island

Borrowing Facilities (BOP)

Major players covered

Nexans

Eupen Cable

Shawflex

Prysmian

LS Cable & System

Taihan Cable & Solution

The Okonite Company

General Cable

Habia Cable

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Nuclear-grade Class 1E Cables product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Nuclear-grade Class 1E Cables, with price, sales quantity, revenue, and global market share of Nuclear-grade Class 1E Cables from 2021 to 2026.

Chapter 3, the Nuclear-grade Class 1E Cables competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Nuclear-grade Class 1E Cables breakdown data are shown at the

regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Nuclear-grade Class 1E Cables market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Nuclear-grade Class 1E Cables.

Chapter 14 and 15, to describe Nuclear-grade Class 1E Cables sales channel, distributors, customers, research findings and conclusion.

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