

Global Nuclear-grade Class 1E Cables Market Growth 2026-2032

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Abstracts

The global Nuclear-grade Class 1E Cables market size is predicted to grow from US\$ 984 million in 2025 to US\$ 1450 million in 2032; it is expected to grow at a CAGR of 5.8% from 2026 to 2032.

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.

United States market for Nuclear-grade Class 1E Cables is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Nuclear-grade Class 1E Cables is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Nuclear-grade Class 1E Cables is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Nuclear-grade Class 1E Cables players cover Nexans, Eupen Cable, Shawflex, Prysmian, LS Cable & System, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Nuclear-grade Class 1E Cables Industry Forecast" looks at past sales and reviews total world Nuclear-grade Class 1E Cables sales in 2025, providing a comprehensive analysis by region and market sector of projected Nuclear-grade Class 1E Cables sales for 2026 through 2032. With Nuclear-grade Class 1E Cables sales broken down by region, market sector and sub-sector, this

report provides a detailed analysis in US\$ millions of the world Nuclear-grade Class 1E Cables industry.

This Insight Report provides a comprehensive analysis of the global Nuclear-grade Class 1E Cables landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Nuclear-grade Class 1E Cables portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Nuclear-grade Class 1E Cables market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Nuclear-grade Class 1E Cables and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Nuclear-grade Class 1E Cables.

This report presents a comprehensive overview, market shares, and growth opportunities of Nuclear-grade Class 1E Cables market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Power Cables

Control Cables

Instrumentation Cables

Signal Cables

Communication Cables

Fiber Optic Cables

Segmentation by Structural Configuration:

Single-core Cable

Multi-core Cable

Segmentation by Application:

Nuclear Island

Conventional Island

Borrowing Facilities (BOP)

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Nexans

Eupen Cable

Shawflex

Prysmian

LS Cable & System

Taihan Cable & Solution

The Okonite Company

General Cable

Habia Cable

Key Questions Addressed in this Report

What is the 10-year outlook for the global Nuclear-grade Class 1E Cables market?

What factors are driving Nuclear-grade Class 1E Cables market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Nuclear-grade Class 1E Cables market opportunities vary by end market size?

How does Nuclear-grade Class 1E Cables break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global Nuclear-grade Class 1E Cables Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for Nuclear-grade Class 1E Cables by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for Nuclear-grade Class 1E Cables by Country/Region, 2021, 2025 & 2032
- 2.2 Nuclear-grade Class 1E Cables Segment by Type
 - 2.2.1 Power Cables
 - 2.2.2 Control Cables
 - 2.2.3 Instrumentation Cables
 - 2.2.4 Signal Cables
 - 2.2.5 Communication Cables
 - 2.2.6 Fiber Optic Cables
 - 2.2.7 Nuclear-grade Class 1E Cables Sales by Type
 - 2.2.7.1 Global Nuclear-grade Class 1E Cables Sales Market Share by Type (2021-2026)
 - 2.2.7.2 Global Nuclear-grade Class 1E Cables Revenue and Market Share by Type (2021-2026)
 - 2.2.7.3 Global Nuclear-grade Class 1E Cables Sale Price by Type (2021-2026)
- 2.3 Nuclear-grade Class 1E Cables Segment by Structural Configuration
 - 2.3.1 Single-core Cable
 - 2.3.2 Multi-core Cable
 - 2.3.3 Nuclear-grade Class 1E Cables Sales by Structural Configuration
 - 2.3.3.1 Global Nuclear-grade Class 1E Cables Sales Market Share by Structural

Configuration (2021-2026)

2.3.3.2 Global Nuclear-grade Class 1E Cables Revenue and Market Share by Structural Configuration (2021-2026)

2.3.3.3 Global Nuclear-grade Class 1E Cables Sale Price by Structural Configuration (2021-2026)

2.4 Nuclear-grade Class 1E Cables Segment by Application

2.4.1 Nuclear Island

2.4.2 Conventional Island

2.4.3 Borrowing Facilities (BOP)

2.4.4 Nuclear-grade Class 1E Cables Sales by Application

2.4.4.1 Global Nuclear-grade Class 1E Cables Sale Market Share by Application (2021-2026)

2.4.4.2 Global Nuclear-grade Class 1E Cables Revenue and Market Share by Application (2021-2026)

2.4.4.3 Global Nuclear-grade Class 1E Cables Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Nuclear-grade Class 1E Cables Breakdown Data by Company

3.1.1 Global Nuclear-grade Class 1E Cables Annual Sales by Company (2021-2026)

3.1.2 Global Nuclear-grade Class 1E Cables Sales Market Share by Company (2021-2026)

3.2 Global Nuclear-grade Class 1E Cables Annual Revenue by Company (2021-2026)

3.2.1 Global Nuclear-grade Class 1E Cables Revenue by Company (2021-2026)

3.2.2 Global Nuclear-grade Class 1E Cables Revenue Market Share by Company (2021-2026)

3.3 Global Nuclear-grade Class 1E Cables Sale Price by Company

3.4 Key Manufacturers Nuclear-grade Class 1E Cables Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Nuclear-grade Class 1E Cables Product Location Distribution

3.4.2 Players Nuclear-grade Class 1E Cables Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR NUCLEAR-GRADE CLASS 1E CABLES BY GEOGRAPHIC REGION

4.1 World Historic Nuclear-grade Class 1E Cables Market Size by Geographic Region (2021-2026)

4.1.1 Global Nuclear-grade Class 1E Cables Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Nuclear-grade Class 1E Cables Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Nuclear-grade Class 1E Cables Market Size by Country/Region (2021-2026)

4.2.1 Global Nuclear-grade Class 1E Cables Annual Sales by Country/Region (2021-2026)

4.2.2 Global Nuclear-grade Class 1E Cables Annual Revenue by Country/Region (2021-2026)

4.3 Americas Nuclear-grade Class 1E Cables Sales Growth

4.4 APAC Nuclear-grade Class 1E Cables Sales Growth

4.5 Europe Nuclear-grade Class 1E Cables Sales Growth

4.6 Middle East & Africa Nuclear-grade Class 1E Cables Sales Growth

5 AMERICAS

5.1 Americas Nuclear-grade Class 1E Cables Sales by Country

5.1.1 Americas Nuclear-grade Class 1E Cables Sales by Country (2021-2026)

5.1.2 Americas Nuclear-grade Class 1E Cables Revenue by Country (2021-2026)

5.2 Americas Nuclear-grade Class 1E Cables Sales by Type (2021-2026)

5.3 Americas Nuclear-grade Class 1E Cables Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Nuclear-grade Class 1E Cables Sales by Region

6.1.1 APAC Nuclear-grade Class 1E Cables Sales by Region (2021-2026)

6.1.2 APAC Nuclear-grade Class 1E Cables Revenue by Region (2021-2026)

6.2 APAC Nuclear-grade Class 1E Cables Sales by Type (2021-2026)

6.3 APAC Nuclear-grade Class 1E Cables Sales by Application (2021-2026)

6.4 China

6.5 Japan

- 6.6 South Korea
- 6.7 Southeast Asia
- 6.8 India
- 6.9 Australia
- 6.10 China Taiwan

7 EUROPE

- 7.1 Europe Nuclear-grade Class 1E Cables by Country
 - 7.1.1 Europe Nuclear-grade Class 1E Cables Sales by Country (2021-2026)
 - 7.1.2 Europe Nuclear-grade Class 1E Cables Revenue by Country (2021-2026)
- 7.2 Europe Nuclear-grade Class 1E Cables Sales by Type (2021-2026)
- 7.3 Europe Nuclear-grade Class 1E Cables Sales by Application (2021-2026)
- 7.4 Germany
- 7.5 France
- 7.6 UK
- 7.7 Italy
- 7.8 Russia

8 MIDDLE EAST & AFRICA

- 8.1 Middle East & Africa Nuclear-grade Class 1E Cables by Country
 - 8.1.1 Middle East & Africa Nuclear-grade Class 1E Cables Sales by Country (2021-2026)
 - 8.1.2 Middle East & Africa Nuclear-grade Class 1E Cables Revenue by Country (2021-2026)
- 8.2 Middle East & Africa Nuclear-grade Class 1E Cables Sales by Type (2021-2026)
- 8.3 Middle East & Africa Nuclear-grade Class 1E Cables Sales by Application (2021-2026)
- 8.4 Egypt
- 8.5 South Africa
- 8.6 Israel
- 8.7 Turkey
- 8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

- 9.1 Market Drivers & Growth Opportunities
- 9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Nuclear-grade Class 1E Cables

10.3 Manufacturing Process Analysis of Nuclear-grade Class 1E Cables

10.4 Industry Chain Structure of Nuclear-grade Class 1E Cables

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Nuclear-grade Class 1E Cables Distributors

11.3 Nuclear-grade Class 1E Cables Customer

12 WORLD FORECAST REVIEW FOR NUCLEAR-GRADE CLASS 1E CABLES BY GEOGRAPHIC REGION

12.1 Global Nuclear-grade Class 1E Cables Market Size Forecast by Region

12.1.1 Global Nuclear-grade Class 1E Cables Forecast by Region (2027-2032)

12.1.2 Global Nuclear-grade Class 1E Cables Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global Nuclear-grade Class 1E Cables Forecast by Type (2027-2032)

12.7 Global Nuclear-grade Class 1E Cables Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Nexans

13.1.1 Nexans Company Information

13.1.2 Nexans Nuclear-grade Class 1E Cables Product Portfolios and Specifications

13.1.3 Nexans Nuclear-grade Class 1E Cables Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 Nexans Main Business Overview

- 13.1.5 Nexans Latest Developments
- 13.2 Eupen Cable
 - 13.2.1 Eupen Cable Company Information
 - 13.2.2 Eupen Cable Nuclear-grade Class 1E Cables Product Portfolios and Specifications
 - 13.2.3 Eupen Cable Nuclear-grade Class 1E Cables Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.2.4 Eupen Cable Main Business Overview
 - 13.2.5 Eupen Cable Latest Developments
- 13.3 Shawflex
 - 13.3.1 Shawflex Company Information
 - 13.3.2 Shawflex Nuclear-grade Class 1E Cables Product Portfolios and Specifications
 - 13.3.3 Shawflex Nuclear-grade Class 1E Cables Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.3.4 Shawflex Main Business Overview
 - 13.3.5 Shawflex Latest Developments
- 13.4 Prysmian
 - 13.4.1 Prysmian Company Information
 - 13.4.2 Prysmian Nuclear-grade Class 1E Cables Product Portfolios and Specifications
 - 13.4.3 Prysmian Nuclear-grade Class 1E Cables Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.4.4 Prysmian Main Business Overview
 - 13.4.5 Prysmian Latest Developments
- 13.5 LS Cable & System
 - 13.5.1 LS Cable & System Company Information
 - 13.5.2 LS Cable & System Nuclear-grade Class 1E Cables Product Portfolios and Specifications
 - 13.5.3 LS Cable & System Nuclear-grade Class 1E Cables Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.5.4 LS Cable & System Main Business Overview
 - 13.5.5 LS Cable & System Latest Developments
- 13.6 Taihan Cable & Solution
 - 13.6.1 Taihan Cable & Solution Company Information
 - 13.6.2 Taihan Cable & Solution Nuclear-grade Class 1E Cables Product Portfolios and Specifications
 - 13.6.3 Taihan Cable & Solution Nuclear-grade Class 1E Cables Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.6.4 Taihan Cable & Solution Main Business Overview
 - 13.6.5 Taihan Cable & Solution Latest Developments

13.7 The Okonite Company

13.7.1 The Okonite Company Company Information

13.7.2 The Okonite Company Nuclear-grade Class 1E Cables Product Portfolios and Specifications

13.7.3 The Okonite Company Nuclear-grade Class 1E Cables Sales, Revenue, Price and Gross Margin (2021-2026)

13.7.4 The Okonite Company Main Business Overview

13.7.5 The Okonite Company Latest Developments

13.8 General Cable

13.8.1 General Cable Company Information

13.8.2 General Cable Nuclear-grade Class 1E Cables Product Portfolios and Specifications

13.8.3 General Cable Nuclear-grade Class 1E Cables Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 General Cable Main Business Overview

13.8.5 General Cable Latest Developments

13.9 Habia Cable

13.9.1 Habia Cable Company Information

13.9.2 Habia Cable Nuclear-grade Class 1E Cables Product Portfolios and Specifications

13.9.3 Habia Cable Nuclear-grade Class 1E Cables Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 Habia Cable Main Business Overview

13.9.5 Habia Cable Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Nuclear-grade Class 1E Cables Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Nuclear-grade Class 1E Cables Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Power Cables

Table 4. Major Players of Control Cables

Table 5. Major Players of Instrumentation Cables

Table 6. Major Players of Signal Cables

Table 7. Major Players of Communication Cables

Table 8. Major Players of Fiber Optic Cables

Table 9. Global Nuclear-grade Class 1E Cables Sales by Type (2021-2026) & (K Meter)

Table 10. Global Nuclear-grade Class 1E Cables Sales Market Share by Type (2021-2026)

Table 11. Global Nuclear-grade Class 1E Cables Revenue by Type (2021-2026) & (\$ million)

Table 12. Global Nuclear-grade Class 1E Cables Revenue Market Share by Type (2021-2026)

Table 13. Global Nuclear-grade Class 1E Cables Sale Price by Type (2021-2026) & (US\$/K Meter)

Table 14. Major Players of Single-core Cable

Table 15. Major Players of Multi-core Cable

Table 16. Global Nuclear-grade Class 1E Cables Sales by Structural Configuration (2021-2026) & (K Meter)

Table 17. Global Nuclear-grade Class 1E Cables Sales Market Share by Structural Configuration (2021-2026)

Table 18. Global Nuclear-grade Class 1E Cables Revenue by Structural Configuration (2021-2026) & (\$ million)

Table 19. Global Nuclear-grade Class 1E Cables Revenue Market Share by Structural Configuration (2021-2026)

Table 20. Global Nuclear-grade Class 1E Cables Sale Price by Structural Configuration (2021-2026) & (US\$/K Meter)

Table 21. Global Nuclear-grade Class 1E Cables Sale by Application (2021-2026) & (K Meter)

Table 22. Global Nuclear-grade Class 1E Cables Sale Market Share by Application (2021-2026)

Table 23. Global Nuclear-grade Class 1E Cables Revenue by Application (2021-2026) & (\$ million)

Table 24. Global Nuclear-grade Class 1E Cables Revenue Market Share by Application (2021-2026)

Table 25. Global Nuclear-grade Class 1E Cables Sale Price by Application (2021-2026) & (US\$/K Meter)

Table 26. Global Nuclear-grade Class 1E Cables Sales by Company (2021-2026) & (K Meter)

Table 27. Global Nuclear-grade Class 1E Cables Sales Market Share by Company (2021-2026)

Table 28. Global Nuclear-grade Class 1E Cables Revenue by Company (2021-2026) & (\$ millions)

Table 29. Global Nuclear-grade Class 1E Cables Revenue Market Share by Company (2021-2026)

Table 30. Global Nuclear-grade Class 1E Cables Sale Price by Company (2021-2026) & (US\$/K Meter)

Table 31. Key Manufacturers Nuclear-grade Class 1E Cables Producing Area Distribution and Sales Area

Table 32. Players Nuclear-grade Class 1E Cables Products Offered

Table 33. Nuclear-grade Class 1E Cables Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 34. New Products and Potential Entrants

Table 35. Market M&A Activity & Strategy

Table 36. Global Nuclear-grade Class 1E Cables Sales by Geographic Region (2021-2026) & (K Meter)

Table 37. Global Nuclear-grade Class 1E Cables Sales Market Share Geographic Region (2021-2026)

Table 38. Global Nuclear-grade Class 1E Cables Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 39. Global Nuclear-grade Class 1E Cables Revenue Market Share by Geographic Region (2021-2026)

Table 40. Global Nuclear-grade Class 1E Cables Sales by Country/Region (2021-2026) & (K Meter)

Table 41. Global Nuclear-grade Class 1E Cables Sales Market Share by Country/Region (2021-2026)

Table 42. Global Nuclear-grade Class 1E Cables Revenue by Country/Region (2021-2026) & (\$ millions)

Table 43. Global Nuclear-grade Class 1E Cables Revenue Market Share by Country/Region (2021-2026)

Table 44. Americas Nuclear-grade Class 1E Cables Sales by Country (2021-2026) & (K Meter)

Table 45. Americas Nuclear-grade Class 1E Cables Sales Market Share by Country (2021-2026)

Table 46. Americas Nuclear-grade Class 1E Cables Revenue by Country (2021-2026) & (\$ millions)

Table 47. Americas Nuclear-grade Class 1E Cables Sales by Type (2021-2026) & (K Meter)

Table 48. Americas Nuclear-grade Class 1E Cables Sales by Application (2021-2026) & (K Meter)

Table 49. APAC Nuclear-grade Class 1E Cables Sales by Region (2021-2026) & (K Meter)

Table 50. APAC Nuclear-grade Class 1E Cables Sales Market Share by Region (2021-2026)

Table 51. APAC Nuclear-grade Class 1E Cables Revenue by Region (2021-2026) & (\$ millions)

Table 52. APAC Nuclear-grade Class 1E Cables Sales by Type (2021-2026) & (K Meter)

Table 53. APAC Nuclear-grade Class 1E Cables Sales by Application (2021-2026) & (K Meter)

Table 54. Europe Nuclear-grade Class 1E Cables Sales by Country (2021-2026) & (K Meter)

Table 55. Europe Nuclear-grade Class 1E Cables Revenue by Country (2021-2026) & (\$ millions)

Table 56. Europe Nuclear-grade Class 1E Cables Sales by Type (2021-2026) & (K Meter)

Table 57. Europe Nuclear-grade Class 1E Cables Sales by Application (2021-2026) & (K Meter)

Table 58. Middle East & Africa Nuclear-grade Class 1E Cables Sales by Country (2021-2026) & (K Meter)

Table 59. Middle East & Africa Nuclear-grade Class 1E Cables Revenue Market Share by Country (2021-2026)

Table 60. Middle East & Africa Nuclear-grade Class 1E Cables Sales by Type (2021-2026) & (K Meter)

Table 61. Middle East & Africa Nuclear-grade Class 1E Cables Sales by Application (2021-2026) & (K Meter)

Table 62. Key Market Drivers & Growth Opportunities of Nuclear-grade Class 1E Cables

Table 63. Key Market Challenges & Risks of Nuclear-grade Class 1E Cables

Table 64. Key Industry Trends of Nuclear-grade Class 1E Cables
Table 65. Nuclear-grade Class 1E Cables Raw Material
Table 66. Key Suppliers of Raw Materials
Table 67. Nuclear-grade Class 1E Cables Distributors List
Table 68. Nuclear-grade Class 1E Cables Customer List
Table 69. Global Nuclear-grade Class 1E Cables Sales Forecast by Region (2027-2032) & (K Meter)
Table 70. Global Nuclear-grade Class 1E Cables Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 71. Americas Nuclear-grade Class 1E Cables Sales Forecast by Country (2027-2032) & (K Meter)
Table 72. Americas Nuclear-grade Class 1E Cables Annual Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 73. APAC Nuclear-grade Class 1E Cables Sales Forecast by Region (2027-2032) & (K Meter)
Table 74. APAC Nuclear-grade Class 1E Cables Annual Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 75. Europe Nuclear-grade Class 1E Cables Sales Forecast by Country (2027-2032) & (K Meter)
Table 76. Europe Nuclear-grade Class 1E Cables Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 77. Middle East & Africa Nuclear-grade Class 1E Cables Sales Forecast by Country (2027-2032) & (K Meter)
Table 78. Middle East & Africa Nuclear-grade Class 1E Cables Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 79. Global Nuclear-grade Class 1E Cables Sales Forecast by Type (2027-2032) & (K Meter)
Table 80. Global Nuclear-grade Class 1E Cables Revenue Forecast by Type (2027-2032) & (\$ millions)
Table 81. Global Nuclear-grade Class 1E Cables Sales Forecast by Application (2027-2032) & (K Meter)
Table 82. Global Nuclear-grade Class 1E Cables Revenue Forecast by Application (2027-2032) & (\$ millions)
Table 83. Nexans Basic Information, Nuclear-grade Class 1E Cables Manufacturing Base, Sales Area and Its Competitors
Table 84. Nexans Nuclear-grade Class 1E Cables Product Portfolios and Specifications
Table 85. Nexans Nuclear-grade Class 1E Cables Sales (K Meter), Revenue (\$ Million), Price (US\$/K Meter) and Gross Margin (2021-2026)
Table 86. Nexans Main Business

Table 87. Nexans Latest Developments

Table 88. Eupen Cable Basic Information, Nuclear-grade Class 1E Cables Manufacturing Base, Sales Area and Its Competitors

Table 89. Eupen Cable Nuclear-grade Class 1E Cables Product Portfolios and Specifications

Table 90. Eupen Cable Nuclear-grade Class 1E Cables Sales (K Meter), Revenue (\$ Million), Price (US\$/K Meter) and Gross Margin (2021-2026)

Table 91. Eupen Cable Main Business

Table 92. Eupen Cable Latest Developments

Table 93. Shawflex Basic Information, Nuclear-grade Class 1E Cables Manufacturing Base, Sales Area and Its Competitors

Table 94. Shawflex Nuclear-grade Class 1E Cables Product Portfolios and Specifications

Table 95. Shawflex Nuclear-grade Class 1E Cables Sales (K Meter), Revenue (\$ Million), Price (US\$/K Meter) and Gross Margin (2021-2026)

Table 96. Shawflex Main Business

Table 97. Shawflex Latest Developments

Table 98. Prysmian Basic Information, Nuclear-grade Class 1E Cables Manufacturing Base, Sales Area and Its Competitors

Table 99. Prysmian Nuclear-grade Class 1E Cables Product Portfolios and Specifications

Table 100. Prysmian Nuclear-grade Class 1E Cables Sales (K Meter), Revenue (\$ Million), Price (US\$/K Meter) and Gross Margin (2021-2026)

Table 101. Prysmian Main Business

Table 102. Prysmian Latest Developments

Table 103. LS Cable & System Basic Information, Nuclear-grade Class 1E Cables Manufacturing Base, Sales Area and Its Competitors

Table 104. LS Cable & System Nuclear-grade Class 1E Cables Product Portfolios and Specifications

Table 105. LS Cable & System Nuclear-grade Class 1E Cables Sales (K Meter), Revenue (\$ Million), Price (US\$/K Meter) and Gross Margin (2021-2026)

Table 106. LS Cable & System Main Business

Table 107. LS Cable & System Latest Developments

Table 108. Taihan Cable & Solution Basic Information, Nuclear-grade Class 1E Cables Manufacturing Base, Sales Area and Its Competitors

Table 109. Taihan Cable & Solution Nuclear-grade Class 1E Cables Product Portfolios and Specifications

Table 110. Taihan Cable & Solution Nuclear-grade Class 1E Cables Sales (K Meter), Revenue (\$ Million), Price (US\$/K Meter) and Gross Margin (2021-2026)

Table 111. Taihan Cable & Solution Main Business

Table 112. Taihan Cable & Solution Latest Developments

Table 113. The Okonite Company Basic Information, Nuclear-grade Class 1E Cables Manufacturing Base, Sales Area and Its Competitors

Table 114. The Okonite Company Nuclear-grade Class 1E Cables Product Portfolios and Specifications

Table 115. The Okonite Company Nuclear-grade Class 1E Cables Sales (K Meter), Revenue (\$ Million), Price (US\$/K Meter) and Gross Margin (2021-2026)

Table 116. The Okonite Company Main Business

Table 117. The Okonite Company Latest Developments

Table 118. General Cable Basic Information, Nuclear-grade Class 1E Cables Manufacturing Base, Sales Area and Its Competitors

Table 119. General Cable Nuclear-grade Class 1E Cables Product Portfolios and Specifications

Table 120. General Cable Nuclear-grade Class 1E Cables Sales (K Meter), Revenue (\$ Million), Price (US\$/K Meter) and Gross Margin (2021-2026)

Table 121. General Cable Main Business

Table 122. General Cable Latest Developments

Table 123. Habia Cable Basic Information, Nuclear-grade Class 1E Cables Manufacturing Base, Sales Area and Its Competitors

Table 124. Habia Cable Nuclear-grade Class 1E Cables Product Portfolios and Specifications

Table 125. Habia Cable Nuclear-grade Class 1E Cables Sales (K Meter), Revenue (\$ Million), Price (US\$/K Meter) and Gross Margin (2021-2026)

Table 126. Habia Cable Main Business

Table 127. Habia Cable Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Nuclear-grade Class 1E Cables
- Figure 2. Nuclear-grade Class 1E Cables Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Nuclear-grade Class 1E Cables Sales Growth Rate 2021-2032 (K Meter)
- Figure 7. Global Nuclear-grade Class 1E Cables Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Nuclear-grade Class 1E Cables Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Nuclear-grade Class 1E Cables Sales Market Share by Country/Region (2025)
- Figure 10. Nuclear-grade Class 1E Cables Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Power Cables
- Figure 12. Product Picture of Control Cables
- Figure 13. Product Picture of Instrumentation Cables
- Figure 14. Product Picture of Signal Cables
- Figure 15. Product Picture of Communication Cables
- Figure 16. Product Picture of Fiber Optic Cables
- Figure 17. Global Nuclear-grade Class 1E Cables Sales Market Share by Type in 2026
- Figure 18. Global Nuclear-grade Class 1E Cables Revenue Market Share by Type (2021-2026)
- Figure 19. Product Picture of Single-core Cable
- Figure 20. Product Picture of Multi-core Cable
- Figure 21. Global Nuclear-grade Class 1E Cables Sales Market Share by Structural Configuration in 2026
- Figure 22. Global Nuclear-grade Class 1E Cables Revenue Market Share by Structural Configuration (2021-2026)
- Figure 23. Nuclear-grade Class 1E Cables Consumed in Nuclear Island
- Figure 24. Global Nuclear-grade Class 1E Cables Market: Nuclear Island (2021-2026) & (K Meter)
- Figure 25. Nuclear-grade Class 1E Cables Consumed in Conventional Island
- Figure 26. Global Nuclear-grade Class 1E Cables Market: Conventional Island

(2021-2026) & (K Meter)

Figure 27. Nuclear-grade Class 1E Cables Consumed in Borrowing Facilities (BOP)

Figure 28. Global Nuclear-grade Class 1E Cables Market: Borrowing Facilities (BOP)
(2021-2026) & (K Meter)

Figure 29. Global Nuclear-grade Class 1E Cables Sale Market Share by Application
(2025)

Figure 30. Global Nuclear-grade Class 1E Cables Revenue Market Share by
Application in 2025

Figure 31. Nuclear-grade Class 1E Cables Sales by Company in 2025 (K Meter)

Figure 32. Global Nuclear-grade Class 1E Cables Sales Market Share by Company in
2025

Figure 33. Nuclear-grade Class 1E Cables Revenue by Company in 2025 (\$ millions)

Figure 34. Global Nuclear-grade Class 1E Cables Revenue Market Share by Company
in 2025

Figure 35. Global Nuclear-grade Class 1E Cables Sales Market Share by Geographic
Region (2021-2026)

Figure 36. Global Nuclear-grade Class 1E Cables Revenue Market Share by
Geographic Region in 2025

Figure 37. Americas Nuclear-grade Class 1E Cables Sales 2021-2026 (K Meter)

Figure 38. Americas Nuclear-grade Class 1E Cables Revenue 2021-2026 (\$ millions)

Figure 39. APAC Nuclear-grade Class 1E Cables Sales 2021-2026 (K Meter)

Figure 40. APAC Nuclear-grade Class 1E Cables Revenue 2021-2026 (\$ millions)

Figure 41. Europe Nuclear-grade Class 1E Cables Sales 2021-2026 (K Meter)

Figure 42. Europe Nuclear-grade Class 1E Cables Revenue 2021-2026 (\$ millions)

Figure 43. Middle East & Africa Nuclear-grade Class 1E Cables Sales 2021-2026 (K
Meter)

Figure 44. Middle East & Africa Nuclear-grade Class 1E Cables Revenue 2021-2026 (\$
millions)

Figure 45. Americas Nuclear-grade Class 1E Cables Sales Market Share by Country in
2025

Figure 46. Americas Nuclear-grade Class 1E Cables Revenue Market Share by Country
(2021-2026)

Figure 47. Americas Nuclear-grade Class 1E Cables Sales Market Share by Type
(2021-2026)

Figure 48. Americas Nuclear-grade Class 1E Cables Sales Market Share by Application
(2021-2026)

Figure 49. United States Nuclear-grade Class 1E Cables Revenue Growth 2021-2026
(\$ millions)

Figure 50. Canada Nuclear-grade Class 1E Cables Revenue Growth 2021-2026 (\$

millions)

Figure 51. Mexico Nuclear-grade Class 1E Cables Revenue Growth 2021-2026 (\$ millions)

Figure 52. Brazil Nuclear-grade Class 1E Cables Revenue Growth 2021-2026 (\$ millions)

Figure 53. APAC Nuclear-grade Class 1E Cables Sales Market Share by Region in 2025

Figure 54. APAC Nuclear-grade Class 1E Cables Revenue Market Share by Region (2021-2026)

Figure 55. APAC Nuclear-grade Class 1E Cables Sales Market Share by Type (2021-2026)

Figure 56. APAC Nuclear-grade Class 1E Cables Sales Market Share by Application (2021-2026)

Figure 57. China Nuclear-grade Class 1E Cables Revenue Growth 2021-2026 (\$ millions)

Figure 58. Japan Nuclear-grade Class 1E Cables Revenue Growth 2021-2026 (\$ millions)

Figure 59. South Korea Nuclear-grade Class 1E Cables Revenue Growth 2021-2026 (\$ millions)

Figure 60. Southeast Asia Nuclear-grade Class 1E Cables Revenue Growth 2021-2026 (\$ millions)

Figure 61. India Nuclear-grade Class 1E Cables Revenue Growth 2021-2026 (\$ millions)

Figure 62. Australia Nuclear-grade Class 1E Cables Revenue Growth 2021-2026 (\$ millions)

Figure 63. China Taiwan Nuclear-grade Class 1E Cables Revenue Growth 2021-2026 (\$ millions)

Figure 64. Europe Nuclear-grade Class 1E Cables Sales Market Share by Country in 2025

Figure 65. Europe Nuclear-grade Class 1E Cables Revenue Market Share by Country (2021-2026)

Figure 66. Europe Nuclear-grade Class 1E Cables Sales Market Share by Type (2021-2026)

Figure 67. Europe Nuclear-grade Class 1E Cables Sales Market Share by Application (2021-2026)

Figure 68. Germany Nuclear-grade Class 1E Cables Revenue Growth 2021-2026 (\$ millions)

Figure 69. France Nuclear-grade Class 1E Cables Revenue Growth 2021-2026 (\$ millions)

- Figure 70. UK Nuclear-grade Class 1E Cables Revenue Growth 2021-2026 (\$ millions)
- Figure 71. Italy Nuclear-grade Class 1E Cables Revenue Growth 2021-2026 (\$ millions)
- Figure 72. Russia Nuclear-grade Class 1E Cables Revenue Growth 2021-2026 (\$ millions)
- Figure 73. Middle East & Africa Nuclear-grade Class 1E Cables Sales Market Share by Country (2021-2026)
- Figure 74. Middle East & Africa Nuclear-grade Class 1E Cables Sales Market Share by Type (2021-2026)
- Figure 75. Middle East & Africa Nuclear-grade Class 1E Cables Sales Market Share by Application (2021-2026)
- Figure 76. Egypt Nuclear-grade Class 1E Cables Revenue Growth 2021-2026 (\$ millions)
- Figure 77. South Africa Nuclear-grade Class 1E Cables Revenue Growth 2021-2026 (\$ millions)
- Figure 78. Israel Nuclear-grade Class 1E Cables Revenue Growth 2021-2026 (\$ millions)
- Figure 79. Turkey Nuclear-grade Class 1E Cables Revenue Growth 2021-2026 (\$ millions)
- Figure 80. GCC Countries Nuclear-grade Class 1E Cables Revenue Growth 2021-2026 (\$ millions)
- Figure 81. Manufacturing Cost Structure Analysis of Nuclear-grade Class 1E Cables in 2026
- Figure 82. Manufacturing Process Analysis of Nuclear-grade Class 1E Cables
- Figure 83. Industry Chain Structure of Nuclear-grade Class 1E Cables
- Figure 84. Channels of Distribution
- Figure 85. Global Nuclear-grade Class 1E Cables Sales Market Forecast by Region (2027-2032)
- Figure 86. Global Nuclear-grade Class 1E Cables Revenue Market Share Forecast by Region (2027-2032)
- Figure 87. Global Nuclear-grade Class 1E Cables Sales Market Share Forecast by Type (2027-2032)
- Figure 88. Global Nuclear-grade Class 1E Cables Revenue Market Share Forecast by Type (2027-2032)
- Figure 89. Global Nuclear-grade Class 1E Cables Sales Market Share Forecast by Application (2027-2032)
- Figure 90. Global Nuclear-grade Class 1E Cables Revenue Market Share Forecast by Application (2027-2032)

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