

Global Data Center Superconducting Cable 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 Data Center Superconducting Cable market size was valued at US\$ 92.61 million in 2025 and is forecast to a readjusted size of US\$ 163 million by 2032 with a CAGR of 8.3% during review period.

Data Center Superconducting Cables are a type of advanced power transmission conductor designed for the power supply systems of high-power-density data centers. By utilizing high-temperature superconducting materials (such as REBCO tapes) to achieve near-zero-resistance power transmission at cryogenic temperatures, these cables significantly reduce internal power transmission losses and thermal loads. Typically composed of a superconducting conductor layer, a stabilizing metal layer, an insulation layer, a cryogenic cooling system (using liquid nitrogen or closed-loop refrigeration), a protective layer, and associated joints and monitoring systems, they enable the transmission of extremely high currents within limited spaces. Key advantages include high power density, low energy consumption, minimal heat generation, space savings in cabling, and enhanced power supply stability, making them suitable for AI data centers, high-performance computing centers, and hyperscale cloud computing infrastructure.

In 2025, global Data Center Superconducting Cable production reached approximately 75 km, and the average price was US\$1,200 per meter. Driven by the surge in AI computing power, the rapid rise in GPU cluster power consumption, increasing rack power densities, and the development of green, low-carbon infrastructure, data center superconducting cable technology is currently transitioning from experimental demonstration to engineering pilot projects. Recent opportunities are primarily

concentrated in power supply retrofitting for ultra-high-power AI data centers, high-density power networks for GPU clusters, ultra-low-loss backbone power systems, and green, low-carbon power optimization at the campus level. Core industry competitiveness hinges on the stability of superconducting materials, the reliability of cryogenic cooling systems, long-distance lossless transmission capabilities, low-resistance joint technology, system integration, and operations and maintenance (O&M) monitoring capabilities. Current industry pain points include high material costs, energy consumption required to maintain cryogenic temperatures, complex engineering deployment, insufficient joint reliability, limited long-term operational experience, and an incomplete standardization system. Solutions involve developing superconducting materials with higher critical temperatures, optimizing closed-cycle cooling systems, improving the reliability of superconducting joint manufacturing, adopting modular cable designs, and implementing real-time temperature/current monitoring and intelligent early-warning systems. Overall, the industry is transitioning from scientific validation to localized commercial application within data centers, steadily moving toward becoming a key power supply technology for high-power AI infrastructure.

This report is a detailed and comprehensive analysis for global Data Center Superconducting Cable 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 Data Center Superconducting Cable market size and forecasts, in consumption value (\$ Million), sales quantity (K Meter), and average selling prices (US\$/Meter), 2021-2032

Global Data Center Superconducting Cable market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Meter), and average selling prices (US\$/Meter), 2021-2032

Global Data Center Superconducting Cable market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Meter), and average selling prices (US\$/Meter), 2021-2032

Global Data Center Superconducting Cable market shares of main players, shipments in revenue (\$ Million), sales quantity (K Meter), and ASP (US\$/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 Data Center Superconducting Cable

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 Data Center Superconducting Cable 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, VEIR, SuperNode, Luvata, Sumitomo Electric Industries, Furukawa Electric, KEYCOM, American Superconductor, Bruker, Shanghai Superconductor Technology, etc.

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

Market Segmentation

Data Center Superconducting Cable 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

Low-Temperature Superconducting Cable

High-Temperature Superconducting Cable

Market segment by Current Capacity

≤10 kA

10-50 kA

50-100 kA

≥100 kA

Market segment by Application

AI Data Centers

High-Performance Computing Centers

Cloud Computing Centers

Hyperscale Data Centers

Others

Major players covered

Nexans

VEIR

SuperNode

Luvata

Sumitomo Electric Industries

Furukawa Electric

KEYCOM

American Superconductor

Bruker

Shanghai Superconductor Technology

LS Cable & System

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 Data Center Superconducting Cable product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Data Center Superconducting Cable, with price, sales quantity, revenue, and global market share of Data Center Superconducting Cable from 2021 to 2026.

Chapter 3, the Data Center Superconducting Cable competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Data Center Superconducting Cable 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 Data Center Superconducting Cable 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 Data Center Superconducting Cable.

Chapter 14 and 15, to describe Data Center Superconducting Cable sales channel, distributors, customers, research findings and conclusion.

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