

Global Data Center Superconducting Cable Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GD277154B65DEN.html>

Date: August 2026

Pages: 127

Price: US\$ 4,480.00 (Single User License)

ID: GD277154B65DEN

Abstracts

The global Data Center Superconducting Cable market size is expected to reach \$ 163 million by 2032, rising at a market growth of 8.3% CAGR during the forecast period (2026-2032).

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 studies the global Data Center Superconducting Cable production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Data Center Superconducting Cable and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Data Center Superconducting Cable that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Data Center Superconducting Cable total production and demand, 2021-2032, (K Meter)

Global Data Center Superconducting Cable total production value, 2021-2032, (USD Million)

Global Data Center Superconducting Cable production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Meter), (based on production site)

Global Data Center Superconducting Cable consumption by region & country, CAGR, 2021-2032 & (K Meter)

U.S. VS China: Data Center Superconducting Cable domestic production, consumption, key domestic manufacturers and share

Global Data Center Superconducting Cable production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Meter)

Global Data Center Superconducting Cable production by Type, production, value,

CAGR, 2021-2032, (USD Million) & (K Meter)

Global Data Center Superconducting Cable production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Meter)

This report profiles key players in the global Data Center Superconducting Cable market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Data Center Superconducting Cable market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Meter) and average price (US\$/Meter) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Data Center Superconducting Cable Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Data Center Superconducting Cable Market, Segmentation by Type:

Low-Temperature Superconducting Cable

High-Temperature Superconducting Cable

Global Data Center Superconducting Cable Market, Segmentation by Current Capacity:

?10 kA

10?50 kA

50?100 kA

?100 kA

Global Data Center Superconducting Cable Market, Segmentation by Application:

AI Data Centers

High-Performance Computing Centers

Cloud Computing Centers

Hyperscale Data Centers

Others

Companies Profiled:

Nexans

VEIR

SuperNode

Luvata

Sumitomo Electric Industries

Furukawa Electric

KEYCOM

American Superconductor

Bruker

Shanghai Superconductor Technology

LS Cable & System

Key Questions Answered:

1. How big is the global Data Center Superconducting Cable market?
2. What is the demand of the global Data Center Superconducting Cable market?
3. What is the year over year growth of the global Data Center Superconducting Cable market?
4. What is the production and production value of the global Data Center Superconducting Cable market?
5. Who are the key producers in the global Data Center Superconducting Cable market?
6. What are the growth factors driving the market demand?

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