

# Global Superconducting Cables Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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## Abstracts

According to our (Global Info Research) latest study, the global Superconducting Cables market size was valued at USD 334.4 million in 2023 and is forecast to a readjusted size of USD 720.1 million by 2030 with a CAGR of 11.6% during review period.

Superconducting power cables act as a bridge between electric energy transmission and distribution. In a superconducting power cable, a superconducting conductor that reaches superconductivity of zero electric resistance below a specific low temperature is used, allowing low-loss transmission of large currents. Superconducting cables with just 20 percent of the thickness of copper cables have an advantage of heightening electric power transmission dimensions a maximum of 10 times (5 times in alternating current, 10 times in direct current) compared to previous cables by using the superconducting phenomenon that electric resistance disappears at -196°. This means that there is hardly any dissipation of electricity during power transmission. At present, many national research institutions and cable manufacturers are researching and developing this product. The cable market will completely switch to superconducting cables in the future. Many governments are supporting businesses for the commercialization because of the enormous cost of the project. Our data only covers manufacturer revenue from superconducting power cables. Cooling equipment is generally provided by industrial gas manufacturers, so this part of income is not counted.

Global Superconducting Cables key players include Nexans, AMSC, MetOx, Furukawa Electric, STI, etc. Global top five manufacturers hold a share about 50%. United States is the largest market, with a share about 35%, followed by Europe, with a share about 30 percent. In terms of product, YBCO Cables is the largest segment, with a share

about 70%. And in terms of application, the largest application is Grid and Smart Grid, followed by Industrial Applications, etc.

The Global Info Research report includes an overview of the development of the Superconducting Cables industry chain, the market status of Grid and Smart Grid (YBCO Cables, Bi-2212 Cables), Industrial Applications (YBCO Cables, Bi-2212 Cables), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Superconducting Cables.

Regionally, the report analyzes the Superconducting Cables markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Superconducting Cables market, with robust domestic demand, supportive policies, and a strong manufacturing base.

#### Key Features:

The report presents comprehensive understanding of the Superconducting Cables market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Superconducting Cables industry.

The report involves analyzing the market at a macro level:

**Market Sizing and Segmentation:** Report collect data on the overall market size, including the sales quantity (Meter), revenue generated, and market share of different by Type (e.g., YBCO Cables, Bi-2212 Cables).

**Industry Analysis:** Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Superconducting Cables market.

**Regional Analysis:** The report involves examining the Superconducting Cables market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

**Market Projections:** Report covers the gathered data and analysis to make future projections and forecasts for the Superconducting Cables market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Superconducting Cables:

**Company Analysis:** Report covers individual Superconducting Cables manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

**Consumer Analysis:** Report covers data on consumer behaviour, preferences, and attitudes towards Superconducting Cables. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Grid and Smart Grid, Industrial Applications).

**Technology Analysis:** Report covers specific technologies relevant to Superconducting Cables. It assesses the current state, advancements, and potential future developments in Superconducting Cables areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Superconducting Cables market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

**Market Validation:** The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

## Market Segmentation

Superconducting Cables market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

### Market segment by Type

#### YBCO Cables

Bi-2212 Cables

Bi2223 Cables

Others

#### Market segment by Application

Grid and Smart Grid

Industrial Applications

Others

#### Major players covered

Nexans

AMSC

MetOx

Furukawa Electric

STI

Bruker

Fujikura

SEI

SuNam

SHSC

Innost

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 Superconducting Cables product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Superconducting Cables, with price, sales, revenue and global market share of Superconducting Cables from 2019 to 2024.

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

Chapter 4, the Superconducting Cables breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

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 2017 to 2023. and Superconducting Cables market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

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 Superconducting Cables.

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

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