

Global AI Data Center Cables Market Growth 2026-2032

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Abstracts

The global AI Data Center Cables market size is predicted to grow from US\$ 1467 million in 2025 to US\$ 5457 million in 2032; it is expected to grow at a CAGR of 20.7% from 2026 to 2032.

AI Data Center Cables refer to high-performance cable assemblies specifically designed for artificial intelligence (AI) data center infrastructures, enabling high-speed, low-latency, and reliable data transmission between GPUs, AI servers, switches, storage systems, and other computing components. These cables are essential for large-scale AI training and inference clusters, where massive amounts of data must be exchanged efficiently among thousands of computing nodes. AI data center cables mainly include Direct Attach Copper (DAC) cables, Active Copper Cables (ACC), Active Optical Cables (AOC), fiber optic cable assemblies, and high-power electrical cables, supporting advanced connectivity standards such as InfiniBand, 400G/800G Ethernet, and next-generation high-speed interconnect technologies. With the rapid expansion of GPU-based computing platforms and hyperscale AI infrastructure, AI data center cables have become critical components for improving network bandwidth, reducing communication latency, and enhancing overall AI system performance.

In 2025, global AI Data Center Cables production reached approximately 3 million units, and average price was 500 USD/unit, with gross margin 35%.

United States market for AI Data Center 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 AI Data Center 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 AI Data Center 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 AI Data Center Cables players cover NVIDIA Mellanox, Coherent, Amphenol, TE Connectivity, Molex, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

Report Scope

LP Information, Inc. (LPI) ' newest research report, the "AI Data Center Cables Industry Forecast" looks at past sales and reviews total world AI Data Center Cables sales in 2025, providing a comprehensive analysis by region and market sector of projected AI Data Center Cables sales for 2026 through 2032. With AI Data Center Cables sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world AI Data Center Cables industry.

This Insight Report provides a comprehensive analysis of the global AI Data Center 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 AI Data Center Cables portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global AI Data Center Cables market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for AI Data Center 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 AI Data Center Cables.

This report presents a comprehensive overview, market shares, and growth opportunities of AI Data Center Cables market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

Segmentation by Type:

Direct Attach Copper

Active Optical Cable

Segmentation by Speed:

100G

200G

400G

800G

1.6T

Segmentation by Application:

Training Cluster Cable

Inference Data Center Cable

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.

NVIDIA Mellanox

Coherent

Amphenol

TE Connectivity

Molex

Luxshare Precision

Zhongji Innolight

FS.com

Key Questions Addressed in this Report

What is the 10-year outlook for the global AI Data Center Cables market?

What factors are driving AI Data Center Cables market growth, globally and by region?

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

How do AI Data Center Cables market opportunities vary by end market size?

How does AI Data Center Cables break out by Type, by Application?

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