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Global AI Data Center Cables Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global AI Data Center Cables market size is expected to reach $ 5402 million by 2032, rising at a market growth of 19.5% CAGR during the forecast period (2026-2032).

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%.

Report Scope

This report studies the global AI Data Center Cables production, demand, key manufacturers, and key regions.

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This report is a detailed and comprehensive analysis of the world market for AI Data Center Cables 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 AI Data Center Cables that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global AI Data Center Cables total production and demand, 2021-2032, (K Units)

Global AI Data Center Cables total production value, 2021-2032, (USD Million)

Global AI Data Center Cables production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global AI Data Center Cables consumption by region & country, CAGR, 2021-2032 & (K Units)

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

Global AI Data Center Cables production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global AI Data Center Cables production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global AI Data Center Cables production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global AI Data Center Cables 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 NVIDIA Mellanox, Coherent, Amphenol, TE Connectivity, Molex, Luxshare Precision, Zhongji Innolight, FS.com, etc.

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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 AI Data Center Cables market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (K Units) and average price (US$/Unit) 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 AI Data Center Cables Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global AI Data Center Cables Market, Segmentation by Type:

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Direct Attach Copper

Active Optical Cable

Global AI Data Center Cables Market, Segmentation by Speed:

100G

200G

400G

800G

1.6T

Global AI Data Center Cables Market, Segmentation by Application:

Training Cluster Cable

Inference Data Center Cable

Companies Profiled:

NVIDIA Mellanox

Coherent

Amphenol

TE Connectivity

Molex

Luxshare Precision

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Zhongji Innolight

FS.com

Key Questions Answered

1. How big is the global AI Data Center Cables market?
2. What is the demand of the global AI Data Center Cables market?
3. What is the year over year growth of the global AI Data Center Cables market?
4. What is the total value of the global AI Data Center Cables market?
5. Who are the Major Players in the global AI Data Center Cables market?
6. What are the growth factors driving the market demand?

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