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Global Leak Detection Cables for Data Center Liquid Cooling 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 Leak Detection Cables for Data Center Liquid Cooling market size was valued at US$ 36.01 million in 2025 and is forecast to a readjusted size of US$ 198 million by 2032 with a CAGR of 24.4% during review period.

Leak detection cables for data center liquid cooling are continuous liquid sensing cable components used around liquid cooled servers, rack manifolds, cold plates, coolant distribution units, piping joints, quick connectors and under rack areas in modern data center infrastructure. The product belongs to the network and communication industry because its primary use case is the safety monitoring of AI data centers, high performance computing facilities, cloud data centers and liquid cooled server rooms. The research object mainly covers sensing cables, water leakage detection cables, non locating leak detection cables, locating leak detection cables, rope type liquid sensing cables, FPC leakage detection strips, cable assemblies and connectorized harnesses designed for liquid cooling environments.

The product is usually manufactured through conductor design, insulation extrusion, absorbent or sensing layer compounding, flame retardant jacket processing, flexible circuit fabrication, terminal crimping, connector assembly, electrical calibration and reliability testing. Key technical parameters include cable diameter, maximum sensing length, response time, locating accuracy, operating temperature, flame retardancy rating, coolant compatibility, bending durability, connector interface and resistance to false alarms. Its core function is to detect early leakage of water based coolant, glycol based coolant or certain specialty cooling fluids before liquid intrusion causes server failure, short circuit risk, downtime or maintenance escalation. Typical deployment

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locations include server trays, rack bottoms, cold plate interfaces, manifold connection points, CDU surrounding areas, piping routes and underfloor spaces in liquid cooled data centers. In 2025, the global average selling price of leak detection cables for data center liquid cooling is estimated at around USD 12 per meter, and the industry gross margin is approximately 35% to 50%.

Leak detection cables for data center liquid cooling are best understood as safety critical sensing components within liquid cooled digital infrastructure, rather than generic water alarm accessories. The upstream segment includes conductors, flame retardant jackets, flexible circuit substrates, sensing layers, terminals, connectors and cable assembly materials. The midstream segment consists of sensing cable manufacturing, locating cable design, FPC leakage detection strip production and connectorized harness assembly. The downstream segment is closely linked to AI servers, liquid cooled racks, cold plate systems, coolant distribution units, cloud data centers and operation and maintenance providers. As direct to chip liquid cooling, rack level liquid cooling and higher density AI clusters are deployed more widely, leakage detection is moving from traditional floor based monitoring toward server level, rack level and cold plate connection point monitoring. The competitive landscape is shaped by several types of participants, including professional leak detection specialists, connector and cable assembly manufacturers, data center monitoring suppliers and liquid cooling system providers. However, not all participants should be treated as actual cable manufacturers. The core manufacturing group is mainly composed of companies that can provide sensing cables, locating leak detection cables, rope type detection cables, FPC leakage detection strips or cable harness assemblies with clear product specifications and production capability. Competition is shifting from basic leakage detection toward lower false alarm rates, better coolant compatibility, flame retardant design, compact routing, connector integration, bending durability and stable delivery for high volume AI server and data center projects. The policy and investment environment is supportive in an indirect but meaningful way. Energy efficiency requirements, rapid buildout of computing infrastructure, higher power density per rack and continued capital expenditure in AI data centers are accelerating liquid cooling adoption, which in turn raises the need for early leakage detection and risk control. Product launches, supply chain localization, manufacturing capacity expansion and selective industry consolidation are expected to strengthen the role of Asia based server cable suppliers and liquid cooling infrastructure vendors. The market is unlikely to become a very large standalone category because unit value is limited and some products are bundled into systems, but it has attractive growth characteristics as a narrow, high reliability, high attachment rate component category.

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

Global Leak Detection Cables for Data Center Liquid Cooling 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 Leak Detection Cables for Data Center Liquid Cooling 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 Leak Detection Cables for Data Center Liquid Cooling 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 Leak Detection Cables for Data Center Liquid Cooling

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 Leak Detection Cables for Data Center

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Liquid Cooling 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 Molex, LLC, Amphenol Communications Solutions, Chemelex RAYCHEM, TTK, RLE Technologies, Wonderful Hi-Tech Co., Ltd., Gredmann Taiwan Ltd., Guangzhou Speed Electronic Technology Co., Ltd., Yajoll Measurement & Control, Tatsuta Electric Wire & Cable Co., Ltd., etc.

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

Market Segmentation

Leak Detection Cables for Data Center Liquid Cooling 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

Rope Type Sensing Cable

Cable Assembly

FPC Leak Detection Strip

Sensor Module Cable

Others

Market segment by Detection Type

Non-positioning

Positioning

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Market segment by Deployment Location

- Server level Cable
- Rack level Cable
- Row level Cable
- Facility level Cable
- Other Deployment Location

Market segment by Application

- AI Server and GPU Cluster
- High Performance Computing Data Center
- Cloud Data Center
- Colocation Data Center
- Enterprise or Edge Data Center
- Others

Major players covered

- Molex, LLC
- Amphenol Communications Solutions
- Chemelex RAYCHEM
- TTK
- RLE Technologies

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Wonderful Hi-Tech Co., Ltd.

Gredmann Taiwan Ltd.

Guangzhou Speed Electronic Technology Co., Ltd.

Yajoll Measurement & Control

Tatsuta Electric Wire & Cable Co., Ltd.

PermAlert

AKCP

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 Leak Detection Cables for Data Center Liquid Cooling product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Leak Detection Cables for Data Center Liquid Cooling, with price, sales quantity, revenue, and global market share of Leak Detection Cables for Data Center Liquid Cooling from 2021 to 2026.

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Chapter 3, the Leak Detection Cables for Data Center Liquid Cooling competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Leak Detection Cables for Data Center Liquid Cooling 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 Leak Detection Cables for Data Center Liquid Cooling 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 Leak Detection Cables for Data Center Liquid Cooling.

Chapter 14 and 15, to describe Leak Detection Cables for Data Center Liquid Cooling sales channel, distributors, customers, research findings and conclusion.

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