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Global Cable Joint Temperature Monitoring System Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Cable Joint Temperature Monitoring System market size is expected to reach $ 1531 million by 2032, rising at a market growth of 8.4% CAGR during the forecast period (2026-2032).

Cable Joint Temperature Monitoring System refers to fixed online hardware that measures the temperature of power-cable joints, terminations or separable connectors and transmits the data to a local controller, asset-management platform or SCADA system.

The market includes wired sensors, passive and active wireless systems, point fiber-optic sensors and distributed fiber-optic systems when cable-joint locations form part of the monitored asset. Portable thermal-imaging instruments, detection-only components, complete cable accessories, switchgear-contact monitoring and software services are excluded.

The 2025 benchmark ASP is US$3,200 per unit, global sales volume is approximately 260.938k units, and the modeled average gross margin is approximately 36%.

The upstream industry chain includes temperature-sensing elements, RFID and SAW chips, optical fibers, optoelectronic components, data-acquisition boards, communication modules and enclosures. The midstream includes sensor packaging, insulation design, reader development, optical interrogation, calibration, communication integration and system testing. The downstream mainly covers electric utilities, industrial facilities, renewable-energy projects, transportation infrastructure and critical electrical facilities.

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Cable joints are among the most thermally vulnerable locations in a power-cable system. Poor crimping, loose connections, oxidation, contamination, mechanical stress and increasing contact resistance can create localized heating that is not immediately visible from the outside.

Surface temperature is not always equal to conductor or internal-joint temperature. Insulation thickness, joint structure, load current, ambient temperature and thermal resistance between the conductor and the sensor can create a significant time delay and temperature difference.

Temperature should therefore be evaluated together with load current and ambient conditions. A fixed alarm threshold alone may produce delayed warnings during high loads or unnecessary alarms when ambient temperature changes rapidly.

Wireless point sensors are relatively economical and suitable for retrofitting accessible joints. Their performance depends on sensor attachment, power supply, radio propagation, enclosure design and battery or energy-harvesting reliability.

CT-powered sensors reduce battery replacement requirements but may not operate reliably below their minimum starting current. Battery-powered sensors can operate without current flow but require lifetime and replacement management.

Passive sensors eliminate local batteries and can be appropriate in high-voltage environments, but reading distance, antenna location and surrounding metal structures can affect communication stability.

Fiber-optic sensors are electrically passive and immune to electromagnetic interference, making them suitable for high-voltage, high-field and hazardous environments. Point fiber sensors are used at selected joints, while distributed sensing can produce a continuous temperature profile over long cable routes.

Distributed temperature sensing is valuable for detecting hotspots along tunnels and cable routes, but spatial resolution and thermal coupling must be considered. A sensing fiber mounted near a cable may measure the surrounding temperature rather than the exact internal temperature of a joint.

A complete monitoring system requires more than accurate sensors. Time synchronization, data filtering, communication reliability, alarm logic, historical trends, SCADA integration and cybersecurity all influence practical performance.

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Temperature-rise trends are often more useful than a single absolute reading. Comparing phases, adjacent joints and similar loading conditions can help identify gradual deterioration before the temperature reaches a fixed alarm limit.

Future competition will increasingly focus on self-powered sensors, maintenance-free operation, smaller sensor dimensions, improved thermal models, edge analytics, condition-based alarms, wireless-network reliability and integration with digital substations and asset-management platforms.

Report Scope

This report studies the global Cable Joint Temperature Monitoring System production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Cable Joint Temperature Monitoring System 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 Cable Joint Temperature Monitoring System that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Cable Joint Temperature Monitoring System total production and demand, 2021-2032, (K Units)

Global Cable Joint Temperature Monitoring System total production value, 2021-2032, (USD Million)

Global Cable Joint Temperature Monitoring System production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Cable Joint Temperature Monitoring System consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Cable Joint Temperature Monitoring System domestic production, consumption, key domestic manufacturers and share

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Global Cable Joint Temperature Monitoring System production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Cable Joint Temperature Monitoring System production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Cable Joint Temperature Monitoring System production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Cable Joint Temperature Monitoring System 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 Eaton Corporation plc, PQSense Technology Co., Ltd., AP Sensing GmbH, Yokogawa Electric Corporation, FISO Technologies Inc. (Sensornet), EOSS SA (Prysmian), Bandweaver Technology Ltd, Rugged Monitoring Inc., Acrel Electric Co., Ltd., Fuzhou Innovation Electronic Scie&Tech Co., Ltd., 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 Cable Joint Temperature Monitoring System 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 Cable Joint Temperature Monitoring System Market, By Region:

United States

China

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Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Cable Joint Temperature Monitoring System Market, Segmentation by Type:

Cable Termination

Straight-Through Joint

Branch Joint

Separable or Plug-In Connector

Global Cable Joint Temperature Monitoring System Market, Segmentation by Voltage Class:

Low Voltage: ?1 kV

Medium Voltage: >1–35 kV

High Voltage: >35–220 kV

Extra-High Voltage: >220 kV

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Global Cable Joint Temperature Monitoring System Market, Segmentation by Number of Monitored Joint Sets:

Single-Joint-Set System

Local Multi-Joint System

Large-Scale Multi-Joint System

Global Cable Joint Temperature Monitoring System Market, Segmentation by Application:

Electric Utility Networks

Industrial Facilities

Renewable Energy Projects

Transportation and Municipal Infrastructure

Data Centers and Critical Facilities

Other

Companies Profiled:

Eaton Corporation plc

PQSense Technology Co., Ltd.

AP Sensing GmbH

Yokogawa Electric Corporation

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FISO Technologies Inc. (Sensornet)

EOSS SA (Prysmian)

Bandweaver Technology Ltd

Rugged Monitoring Inc.

Acrel Electric Co., Ltd.

Fuzhou Innovation Electronic Scie&Tech Co., Ltd.

Shijiazhuang Annaipu Cable Accessories Co., Ltd.

Key Questions Answered:

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

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