

Circular Connector Market - Forecast from 2026 to 2031

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Abstracts

The circular connector market is forecasted to rise at a 7.18% CAGR, reaching USD 13.213 billion in 2031 from USD 8.717 billion in 2025.

The circular connector market is experiencing rising demand driven by escalating electronic device production requiring reliable interconnection solutions. Expanding electric vehicle adoption is accelerating usage in transportation systems for power, data, and control functions. Growing data center infrastructure is fueling need for high-performance connectors to support intensive data processing and storage. Asia-Pacific manufacturers are rapidly scaling production to address global requirements.

Circular connectors are cylindrical multi-pin electrical interfaces designed for power supply, data transmission, and signal delivery across diverse devices. They serve critical sectors including aerospace and defense, transportation, electrical and electronics, telecommunications, and others. The paramount need for robust, efficient electrical connections remains a primary catalyst for market growth.

Segmentation analysis highlights the rise in electronic production as a key booster. Circular connectors provide versatility, reliability, and broad compatibility in electronic systems, ensuring secure power, data, and signal transmission for uninterrupted operation. Sustained consumer demand for electronic devices amplifies the essential role of these connectors in meeting production scaling.

The emerging transportation sector significantly drives expansion. Circular connectors excel in harsh environments, offering durability for automotive applications, particularly electric vehicles where they enable efficient power distribution, communication, and system control. The shift toward sustainable mobility solutions propels their integration.

Emerging data centers further accelerate growth. These facilities demand high-integrity connections for power delivery, data transfer, and signal maintenance amid complex server, switch, and storage networks. Escalating data volumes necessitate advanced circular connectors to sustain performance and reliability.

Geographically, Asia-Pacific is estimated to dominate the market, supported by booming regional electronic production and government initiatives promoting electric vehicle adoption.

A notable growth restraint is the requirement for customization. Application-specific demands—such as unique pin configurations, enhanced environmental sealing, or specialized materials—often necessitate tailored designs. This introduces higher costs, extended lead times, and increased complexity, potentially deterring broader adoption despite ongoing standardization efforts.

Prominent company products include the M12 Straight D4 PG Clamp from TE Connectivity, part of its Standard Circular Connectors lineup. This sealable system supports cable-to-cable signal circuit applications, delivering dependable performance across industries.

Phoenix Contact offers the SACC-M12FS-4CON-PG7-M, a versatile sensor/actuator connector with straight cable outlet and screw connection for secure installations. Compliant with IEC 61076-2-101 standards, it provides universal sensor compatibility and flexibility in diverse systems.

Leading companies shaping the circular connector landscape include TE Connectivity, Phoenix Contact, Amphenol Corporation, HARTING Stiftung & Co. KG, and CUI Devices. These players drive innovation through durable, high-performance solutions tailored to evolving sectoral demands.

Overall, the market is advancing steadily, underpinned by electronic proliferation, transportation electrification, and data infrastructure expansion, while navigating customization challenges to enhance standardization and accessibility.

Key Benefits of this Report:

Insightful Analysis: Gain detailed market insights covering major as well as emerging geographical regions, focusing on customer segments, government

policies and socio-economic factors, consumer preferences, industry verticals, and other sub-segments.

Competitive Landscape: Understand the strategic maneuvers employed by key players globally to understand possible market penetration with the correct strategy.

Market Drivers & Future Trends: Explore the dynamic factors and pivotal market trends and how they will shape future market developments.

Actionable Recommendations: Utilize the insights to exercise strategic decisions to uncover new business streams and revenues in a dynamic environment.

Caters to a Wide Audience: Beneficial and cost-effective for startups, research institutions, consultants, SMEs, and large enterprises.

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Industry and Market Insights, Opportunity Assessment, Product Demand Forecasting, Market Entry Strategy, Geographical Expansion, Capital Investment Decisions, Regulatory Framework & Implications, New Product Development, Competitive Intelligence

Report Coverage:

Historical data from 2021 to 2025 & forecast data from 2026 to 2031

Growth Opportunities, Challenges, Supply Chain Outlook, Regulatory Framework, and Trend Analysis

Competitive Positioning, Strategies, and Market Share Analysis

Revenue Growth and Forecast Assessment of segments and regions including countries

Company Profiling (Strategies, Products, Financial Information, and Key Developments among others.

Circular Connector Market Segmentation

By Type

Standard Circular Connector

DIN Circular Connector

MIL Spec Connector

Others

By Material

Stainless Steel

Aluminum

Others

By End-User

Aerospace & Defense

Transportation

Electrical and Electronics

Telecommunications

Others

By Geography

North America

USA

Canada

Mexico

South America

Brazil

Argentina

Others

Europe

Germany

France

United Kingdom

Spain

Others

Middle East and Africa

Saudi Arabia

UAE

Others

Asia Pacific

China

India

Japan

South Korea

Indonesia

Thailand

Others

Contents

1. EXECUTIVE SUMMARY

2. MARKET SNAPSHOT

- 2.1. Market Overview
- 2.2. Market Definition
- 2.3. Scope of the Study
- 2.4. Market Segmentation

3. BUSINESS LANDSCAPE

- 3.1. Market Drivers
- 3.2. Market Restraints
- 3.3. Market Opportunities
- 3.4. Porter's Five Forces Analysis
- 3.5. Industry Value Chain Analysis
- 3.6. Policies and Regulations
- 3.7. Strategic Recommendations

4. TECHNOLOGICAL OUTLOOK

5. CIRCULAR CONNECTOR MARKET BY TYPE

- 5.1. Introduction
- 5.2. Standard Circular Connector
- 5.3. DIN Circular Connector
- 5.4. MIL Spec Connector
- 5.5. Others

6. CIRCULAR CONNECTOR MARKET BY MATERIAL

- 6.1. Introduction
- 6.2. Stainless Steel
- 6.3. Aluminum
- 6.4. Others

7. CIRCULAR CONNECTOR MARKET BY END-USER

- 7.1. Introduction
- 7.2. Aerospace & Defense
- 7.3. Transportation
- 7.4. Electrical and Electronics
- 7.5. Telecommunications
- 7.6. Others

8. CIRCULAR CONNECTOR MARKET BY GEOGRAPHY

- 8.1. Introduction
- 8.2. North America
 - 8.2.1. USA
 - 8.2.2. Canada
 - 8.2.3. Mexico
- 8.3. South America
 - 8.3.1. Brazil
 - 8.3.2. Argentina
 - 8.3.3. Others
- 8.4. Europe
 - 8.4.1. Germany
 - 8.4.2. France
 - 8.4.3. United Kingdom
 - 8.4.4. Spain
 - 8.4.5. Others
- 8.5. Middle East and Africa
 - 8.5.1. Saudi Arabia
 - 8.5.2. UAE
 - 8.5.3. Others
- 8.6. Asia Pacific
 - 8.6.1. China
 - 8.6.2. India
 - 8.6.3. Japan
 - 8.6.4. South Korea
 - 8.6.5. Indonesia
 - 8.6.6. Thailand
 - 8.6.7. Others

9. COMPETITIVE ENVIRONMENT AND ANALYSIS

- 9.1. Major Players and Strategy Analysis
- 9.2. Market Share Analysis
- 9.3. Mergers, Acquisitions, Agreements, and Collaborations
- 9.4. Competitive Dashboard

10. COMPANY PROFILES

- 10.1. TE Connectivity
- 10.2. Phoenix Contact
- 10.3. Amphenol Corporation
- 10.4. HARTING Stiftung & Co KG.
- 10.5. CUI Devices
- 10.6. Allied Electronics Corporation
- 10.7. Weipu connector
- 10.8. Weidmüller Holding AG & Co. Kg
- 10.9. Hirose Electric Co., Ltd.
- 10.10. Eaton Corporation

11. APPENDIX

- 11.1. Currency
- 11.2. Assumptions
- 11.3. Base and Forecast Years Timeline
- 11.4. Key Benefits for the Stakeholders
- 11.5. Research Methodology
- 11.6. Abbreviations

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