

# Global EMI and EMP Protection Connectors Supply, Demand and Key Producers, 2023-2029

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## Abstracts

The global EMI and EMP Protection Connectors market size is expected to reach \$ 428 million by 2029, rising at a market growth of 5.6% CAGR during the forecast period (2023-2029).

EMI (Electromagnetic Interference) and EMP (Electromagnetic Pulse) protection connectors are essential components used to safeguard electronic systems and equipment from unwanted electromagnetic disturbances, ensuring their proper functioning and integrity, especially in critical applications. These connectors help mitigate the impact of electromagnetic interference and protect against the potentially damaging effects of electromagnetic pulses. Here are some key aspects and trends related to the EMI and EMP protection connectors market:

### Market Growth Factors:

**Increasing Electronic Device Proliferation:** The growing use of electronic devices in various industries, from consumer electronics to automotive and aerospace, has increased the demand for EMI and EMP protection connectors to maintain signal integrity and device functionality.

**Stringent Regulatory Requirements:** Regulatory bodies and industry standards mandate EMI and EMP protection in certain applications, such as military and aerospace, creating a consistent demand for these connectors.

**Rising Concerns About Data Security:** With the increasing volume of sensitive data being processed and transmitted, there is a heightened emphasis on protecting electronic systems from EMI and EMP threats that could compromise data security.

**Widespread Connectivity:** The expansion of IoT (Internet of Things) and Industry 4.0 technologies requires connectors that can maintain reliable and interference-free connectivity in complex interconnected systems.

**Emerging Technologies:** Advances in wireless communication, 5G, and high-frequency applications necessitate connectors capable of withstanding and mitigating EMI and EMP effects.

**Increased Aerospace and Defense Spending:** The aerospace and defense sectors invest in EMI and EMP protection to safeguard critical systems against electromagnetic threats.

**Vehicle Electrification:** The trend toward electric and autonomous vehicles requires connectors that can withstand EMI and EMP challenges in automotive electronics.

#### Market Challenges:

**Complex Design Requirements:** Developing connectors that effectively protect against both EMI and EMP can be technically challenging due to the different nature and magnitude of the two types of interference.

**Cost Considerations:** High-quality EMI and EMP protection connectors can be expensive, which may impact adoption, especially in cost-sensitive industries.

**Customization Needs:** Many applications require customized solutions, and providing connectors tailored to specific requirements can be complex and time-consuming.

#### Future Trends:

**Miniaturization:** As electronic devices become smaller and more compact, connectors need to keep pace with miniaturization trends to fit into smaller form factors while maintaining protection capabilities.

**High-Frequency Capabilities:** EMI and EMP protection connectors must support high-frequency applications, including 5G and beyond, to maintain signal integrity.

**Multi-Function Connectors:** Connectors that offer protection against a range of electromagnetic threats, such as EMI, EMP, and lightning strikes, are expected to

become more prevalent.

**Incorporation of Advanced Materials:** Innovative materials and coatings are being used to enhance the performance and shielding effectiveness of EMI and EMP protection connectors.

**IoT and Critical Infrastructure:** With the expansion of IoT and the increasing importance of critical infrastructure protection, the market for EMI and EMP protection connectors is expected to expand.

**Resilience Testing:** EMI and EMP protection connectors may be increasingly subject to rigorous testing for resilience against electromagnetic threats and cyber-attacks.

**Integration of Cybersecurity:** In addition to protecting against electromagnetic interference, connectors may include cybersecurity features to guard against cyber threats.

The EMI and EMP protection connectors market is likely to see continued growth as electronic devices and systems become more pervasive and the need for reliable protection against electromagnetic interference and pulses remains a priority. Innovations in design, materials, and customization are expected to drive the market forward.

EMP (Electromagnetic Pulse) connectors and EMI (Electromagnetic Interference) connectors are specialized components designed to provide protection against electromagnetic interference and electromagnetic pulses, each with a distinct purpose. Here are the key differences between the two:

**EMI Connectors:**

EMI connectors are primarily designed to mitigate and prevent electromagnetic interference. EMI refers to unwanted electromagnetic emissions or radiations that can disrupt the proper operation of electronic equipment and devices. EMI connectors are used to suppress or filter out electromagnetic noise to maintain the integrity of electronic systems.

EMI connectors employ various filtering technologies, including capacitive filtering, inductive filtering, ferrite beads, and shielding, to reduce electromagnetic noise at specific frequencies.

EMI connectors are commonly used in applications where electromagnetic interference can disrupt communication, signal quality, or electrical functionality, such as in data centers, communication systems, and consumer electronics.

EMP Connectors:

EMP connectors are designed to provide protection against Electromagnetic Pulse (EMP) events, which are intense bursts of electromagnetic radiation typically associated with nuclear explosions or solar flares. EMP events can induce high-voltage surges that can damage or disrupt electronic systems.

EMP connectors are built to withstand and divert the high-energy electromagnetic pulses associated with EMP events, offering protection to critical infrastructure, military equipment, and other systems that need to remain operational in the event of an EMP.

EMP connectors often include robust shielding, surge protection, and grounding to minimize the effects of EMP events on sensitive electronic equipment.

In summary, while both EMI connectors and EMP connectors aim to protect electronic systems from electromagnetic disturbances, they serve different purposes and are designed to address distinct types of electromagnetic interference. EMI connectors focus on mitigating everyday interference, while EMP connectors are built to provide protection against rare but extremely powerful electromagnetic pulse events.

This report studies the global EMI and EMP Protection Connectors production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for EMI and EMP Protection Connectors, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of EMI and EMP Protection Connectors that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global EMI and EMP Protection Connectors total production and demand, 2018-2029, (K Units)

Global EMI and EMP Protection Connectors total production value, 2018-2029, (USD Million)

Global EMI and EMP Protection Connectors production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (K Units)

Global EMI and EMP Protection Connectors consumption by region & country, CAGR, 2018-2029 & (K Units)

U.S. VS China: EMI and EMP Protection Connectors domestic production, consumption, key domestic manufacturers and share

Global EMI and EMP Protection Connectors production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (K Units)

Global EMI and EMP Protection Connectors production by Type, production, value, CAGR, 2018-2029, (USD Million) & (K Units)

Global EMI and EMP Protection Connectors production by Application production, value, CAGR, 2018-2029, (USD Million) & (K Units).

This reports profiles key players in the global EMI and EMP Protection Connectors 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 Amphenol, Glenair, TE Connectivity, Smiths Interconnect, Bel Fuse, FilConn (Qnnect), ITT Cannon, Cristek Interconnects (Qnnect) and Souriau-Sunbank (Eaton), 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 EMI and EMP Protection Connectors 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 2018-2029 by

year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

#### Global EMI and EMP Protection Connectors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global EMI and EMP Protection Connectors Market, Segmentation by Type

Circular Connectors

Rectangular Connectors

Others

#### Global EMI and EMP Protection Connectors Market, Segmentation by Application

Military & Defense

Space Application

Aviation & UAV

Industrial Application

Medical Devices

Others

Companies Profiled:

Amphenol

Glenair

TE Connectivity

Smiths Interconnect

Bel Fuse

FilConn (Qnnect)

ITT Cannon

Cristek Interconnects (Qnnect)

Souriau-Sunbank (Eaton)

Carlisle Interconnect Technologies

AEF Solutions

Spectrum Control (formerly APITech)

Quell Corporation

RF Immunity

Conesys (EMP Connectors)

## Mil-Con

### Key Questions Answered

1. How big is the global EMI and EMP Protection Connectors market?
2. What is the demand of the global EMI and EMP Protection Connectors market?
3. What is the year over year growth of the global EMI and EMP Protection Connectors market?
4. What is the production and production value of the global EMI and EMP Protection Connectors market?
5. Who are the key producers in the global EMI and EMP Protection Connectors market?



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