

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

<https://marketpublishers.com/r/G617EE841428EN.html>

Date: November 2023

Pages: 141

Price: US\$ 4,480.00 (Single User License)

ID: G617EE841428EN

## Abstracts

The global EMP Connectors and EMI 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).

The markets for EMP (Electromagnetic Pulse) connectors and EMI (Electromagnetic Interference) connectors are driven by the need to protect electronic systems and equipment from electromagnetic disturbances, whether it be everyday interference or the rare but highly damaging EMP events. Here are some key aspects and trends related to the EMP and EMI connectors markets:

### EMP Connectors Market:

**Growing Concern for Critical Infrastructure Protection:** The increasing awareness of the vulnerability of critical infrastructure, such as power grids, communication networks, and military systems, to EMP events is driving the demand for EMP connectors and protection solutions.

**Military and Defense Applications:** The defense sector is a significant user of EMP connectors, particularly for safeguarding military electronics and communication systems. The increasing defense budgets in some regions contribute to market growth.

**Electromagnetic Resilience in Aerospace:** The aerospace industry is investing in EMP protection solutions to ensure the electromagnetic resilience of aircraft, particularly for avionics and mission-critical systems.

**Global Security Concerns:** The geopolitical environment and concerns about EMP

attacks or natural EMP events have led to an increased focus on EMP protection and preparedness, spurring demand for EMP connectors.

**Integration with EMP Shielding Solutions:** EMP connectors are often integrated into comprehensive EMP shielding solutions, which include shielding materials, grounding systems, and surge protection, creating a holistic approach to EMP protection.

#### EMI Connectors Market:

**Proliferation of Electronic Devices:** With the increasing use of electronic devices in various industries and applications, the demand for EMI connectors to ensure electromagnetic compatibility and reduce interference is on the rise.

**Telecommunications and Data Centers:** The expansion of data centers, 5G networks, and telecommunications infrastructure requires EMI connectors to manage electromagnetic interference and maintain signal integrity.

**Automotive Electrification:** As the automotive industry adopts more electronic systems, EMI connectors are essential to prevent interference in vehicles, particularly in electric and autonomous vehicles.

**Medical Devices:** EMI connectors play a critical role in medical devices and equipment, where electromagnetic interference can affect patient safety and the accuracy of medical diagnostics.

**Consumer Electronics:** The demand for smaller, faster, and more efficient consumer electronics drives the need for EMI connectors to maintain the quality of signals and reduce interference in devices like smartphones, tablets, and wearables.

**Sustainability and Electromagnetic Resilience:** Industries are focusing on sustainability and electromagnetic resilience, considering the impact of EMI on the performance and longevity of electronic systems.

**Customization and Miniaturization:** Manufacturers offer customized EMI connectors to meet specific application requirements, including miniaturized connectors for compact electronic devices.

**Materials and Coatings:** Advances in materials and coatings for EMI connectors aim to improve shielding effectiveness, reduce losses, and enhance performance.

IoT and Industry 4.0: The increasing use of the Internet of Things (IoT) and Industry 4.0 technologies necessitates EMI connectors that can maintain connectivity and reliability in interconnected systems.

Both EMP and EMI connectors are vital components in ensuring the integrity and reliability of electronic systems. The markets for these connectors are influenced by factors such as technological advancements, industry trends, regulatory requirements, and the evolving threat landscape. As industries continue to rely on electronic systems, the demand for EMP and EMI connectors is expected to persist and grow.

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 EMP Connectors and EMI Connectors production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for EMP Connectors and EMI 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 EMP Connectors and EMI Connectors that contribute to its increasing demand across many markets.

Highlights and key features of the study

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

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

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

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

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

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

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

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

This reports profiles key players in the global EMP Connectors and EMI 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 EMP Connectors and EMI 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 EMP Connectors and EMI Connectors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

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

Circular Connectors

Rectangular Connectors

Others

### Global EMP Connectors and EMI 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 EMP Connectors and EMI Connectors market?
2. What is the demand of the global EMP Connectors and EMI Connectors market?
3. What is the year over year growth of the global EMP Connectors and EMI Connectors market?

4. What is the production and production value of the global EMP Connectors and EMI Connectors market?
5. Who are the key producers in the global EMP Connectors and EMI Connectors market?



## Contents

### 1 SUPPLY SUMMARY

- 1.1 EMP Connectors and EMI Connectors Introduction
- 1.2 World EMP Connectors and EMI Connectors Supply & Forecast
  - 1.2.1 World EMP Connectors and EMI Connectors Production Value (2018 & 2022 & 2029)
  - 1.2.2 World EMP Connectors and EMI Connectors Production (2018-2029)
  - 1.2.3 World EMP Connectors and EMI Connectors Pricing Trends (2018-2029)
- 1.3 World EMP Connectors and EMI Connectors Production by Region (Based on Production Site)
  - 1.3.1 World EMP Connectors and EMI Connectors Production Value by Region (2018-2029)
  - 1.3.2 World EMP Connectors and EMI Connectors Production by Region (2018-2029)
  - 1.3.3 World EMP Connectors and EMI Connectors Average Price by Region (2018-2029)
  - 1.3.4 North America EMP Connectors and EMI Connectors Production (2018-2029)
  - 1.3.5 Europe EMP Connectors and EMI Connectors Production (2018-2029)
  - 1.3.6 China EMP Connectors and EMI Connectors Production (2018-2029)
  - 1.3.7 Japan EMP Connectors and EMI Connectors Production (2018-2029)
- 1.4 Market Drivers, Restraints and Trends
  - 1.4.1 EMP Connectors and EMI Connectors Market Drivers
  - 1.4.2 Factors Affecting Demand
  - 1.4.3 EMP Connectors and EMI Connectors Major Market Trends

### 2 DEMAND SUMMARY

- 2.1 World EMP Connectors and EMI Connectors Demand (2018-2029)
- 2.2 World EMP Connectors and EMI Connectors Consumption by Region
  - 2.2.1 World EMP Connectors and EMI Connectors Consumption by Region (2018-2023)
  - 2.2.2 World EMP Connectors and EMI Connectors Consumption Forecast by Region (2024-2029)
- 2.3 United States EMP Connectors and EMI Connectors Consumption (2018-2029)
- 2.4 China EMP Connectors and EMI Connectors Consumption (2018-2029)
- 2.5 Europe EMP Connectors and EMI Connectors Consumption (2018-2029)
- 2.6 Japan EMP Connectors and EMI Connectors Consumption (2018-2029)
- 2.7 South Korea EMP Connectors and EMI Connectors Consumption (2018-2029)

2.8 ASEAN EMP Connectors and EMI Connectors Consumption (2018-2029)

2.9 India EMP Connectors and EMI Connectors Consumption (2018-2029)

### **3 WORLD EMP CONNECTORS AND EMI CONNECTORS MANUFACTURERS COMPETITIVE ANALYSIS**

3.1 World EMP Connectors and EMI Connectors Production Value by Manufacturer (2018-2023)

3.2 World EMP Connectors and EMI Connectors Production by Manufacturer (2018-2023)

3.3 World EMP Connectors and EMI Connectors Average Price by Manufacturer (2018-2023)

3.4 EMP Connectors and EMI Connectors Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global EMP Connectors and EMI Connectors Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for EMP Connectors and EMI Connectors in 2022

3.5.3 Global Concentration Ratios (CR8) for EMP Connectors and EMI Connectors in 2022

3.6 EMP Connectors and EMI Connectors Market: Overall Company Footprint Analysis

3.6.1 EMP Connectors and EMI Connectors Market: Region Footprint

3.6.2 EMP Connectors and EMI Connectors Market: Company Product Type Footprint

3.6.3 EMP Connectors and EMI Connectors Market: Company Product Application Footprint

3.7 Competitive Environment

3.7.1 Historical Structure of the Industry

3.7.2 Barriers of Market Entry

3.7.3 Factors of Competition

3.8 New Entrant and Capacity Expansion Plans

3.9 Mergers, Acquisition, Agreements, and Collaborations

### **4 UNITED STATES VS CHINA VS REST OF THE WORLD**

4.1 United States VS China: EMP Connectors and EMI Connectors Production Value Comparison

4.1.1 United States VS China: EMP Connectors and EMI Connectors Production Value Comparison (2018 & 2022 & 2029)

4.1.2 United States VS China: EMP Connectors and EMI Connectors Production Value

## Market Share Comparison (2018 & 2022 & 2029)

### 4.2 United States VS China: EMP Connectors and EMI Connectors Production Comparison

#### 4.2.1 United States VS China: EMP Connectors and EMI Connectors Production Comparison (2018 & 2022 & 2029)

#### 4.2.2 United States VS China: EMP Connectors and EMI Connectors Production Market Share Comparison (2018 & 2022 & 2029)

### 4.3 United States VS China: EMP Connectors and EMI Connectors Consumption Comparison

#### 4.3.1 United States VS China: EMP Connectors and EMI Connectors Consumption Comparison (2018 & 2022 & 2029)

#### 4.3.2 United States VS China: EMP Connectors and EMI Connectors Consumption Market Share Comparison (2018 & 2022 & 2029)

### 4.4 United States Based EMP Connectors and EMI Connectors Manufacturers and Market Share, 2018-2023

#### 4.4.1 United States Based EMP Connectors and EMI Connectors Manufacturers, Headquarters and Production Site (States, Country)

#### 4.4.2 United States Based Manufacturers EMP Connectors and EMI Connectors Production Value (2018-2023)

#### 4.4.3 United States Based Manufacturers EMP Connectors and EMI Connectors Production (2018-2023)

### 4.5 China Based EMP Connectors and EMI Connectors Manufacturers and Market Share

#### 4.5.1 China Based EMP Connectors and EMI Connectors Manufacturers, Headquarters and Production Site (Province, Country)

#### 4.5.2 China Based Manufacturers EMP Connectors and EMI Connectors Production Value (2018-2023)

#### 4.5.3 China Based Manufacturers EMP Connectors and EMI Connectors Production (2018-2023)

### 4.6 Rest of World Based EMP Connectors and EMI Connectors Manufacturers and Market Share, 2018-2023

#### 4.6.1 Rest of World Based EMP Connectors and EMI Connectors Manufacturers, Headquarters and Production Site (State, Country)

#### 4.6.2 Rest of World Based Manufacturers EMP Connectors and EMI Connectors Production Value (2018-2023)

#### 4.6.3 Rest of World Based Manufacturers EMP Connectors and EMI Connectors Production (2018-2023)

## 5 MARKET ANALYSIS BY TYPE

## 5.1 World EMP Connectors and EMI Connectors Market Size Overview by Type: 2018 VS 2022 VS 2029

### 5.2 Segment Introduction by Type

#### 5.2.1 Circular Connectors

#### 5.2.2 Rectangular Connectors

#### 5.2.3 Others

### 5.3 Market Segment by Type

#### 5.3.1 World EMP Connectors and EMI Connectors Production by Type (2018-2029)

#### 5.3.2 World EMP Connectors and EMI Connectors Production Value by Type (2018-2029)

#### 5.3.3 World EMP Connectors and EMI Connectors Average Price by Type (2018-2029)

## 6 MARKET ANALYSIS BY APPLICATION

### 6.1 World EMP Connectors and EMI Connectors Market Size Overview by Application: 2018 VS 2022 VS 2029

#### 6.2 Segment Introduction by Application

##### 6.2.1 Military & Defense

##### 6.2.2 Space Application

##### 6.2.3 Aviation & UAV

##### 6.2.4 Industrial Application

##### 6.2.5 Medical Devices

##### 6.2.6 Others

#### 6.3 Market Segment by Application

##### 6.3.1 World EMP Connectors and EMI Connectors Production by Application (2018-2029)

##### 6.3.2 World EMP Connectors and EMI Connectors Production Value by Application (2018-2029)

##### 6.3.3 World EMP Connectors and EMI Connectors Average Price by Application (2018-2029)

## 7 COMPANY PROFILES

### 7.1 Amphenol

#### 7.1.1 Amphenol Details

#### 7.1.2 Amphenol Major Business

#### 7.1.3 Amphenol EMP Connectors and EMI Connectors Product and Services

- 7.1.4 Amphenol EMP Connectors and EMI Connectors Production, Price, Value, Gross Margin and Market Share (2018-2023)
- 7.1.5 Amphenol Recent Developments/Updates
- 7.1.6 Amphenol Competitive Strengths & Weaknesses
- 7.2 Glenair
  - 7.2.1 Glenair Details
  - 7.2.2 Glenair Major Business
  - 7.2.3 Glenair EMP Connectors and EMI Connectors Product and Services
  - 7.2.4 Glenair EMP Connectors and EMI Connectors Production, Price, Value, Gross Margin and Market Share (2018-2023)
  - 7.2.5 Glenair Recent Developments/Updates
  - 7.2.6 Glenair Competitive Strengths & Weaknesses
- 7.3 TE Connectivity
  - 7.3.1 TE Connectivity Details
  - 7.3.2 TE Connectivity Major Business
  - 7.3.3 TE Connectivity EMP Connectors and EMI Connectors Product and Services
  - 7.3.4 TE Connectivity EMP Connectors and EMI Connectors Production, Price, Value, Gross Margin and Market Share (2018-2023)
  - 7.3.5 TE Connectivity Recent Developments/Updates
  - 7.3.6 TE Connectivity Competitive Strengths & Weaknesses
- 7.4 Smiths Interconnect
  - 7.4.1 Smiths Interconnect Details
  - 7.4.2 Smiths Interconnect Major Business
  - 7.4.3 Smiths Interconnect EMP Connectors and EMI Connectors Product and Services
  - 7.4.4 Smiths Interconnect EMP Connectors and EMI Connectors Production, Price, Value, Gross Margin and Market Share (2018-2023)
  - 7.4.5 Smiths Interconnect Recent Developments/Updates
  - 7.4.6 Smiths Interconnect Competitive Strengths & Weaknesses
- 7.5 Bel Fuse
  - 7.5.1 Bel Fuse Details
  - 7.5.2 Bel Fuse Major Business
  - 7.5.3 Bel Fuse EMP Connectors and EMI Connectors Product and Services
  - 7.5.4 Bel Fuse EMP Connectors and EMI Connectors Production, Price, Value, Gross Margin and Market Share (2018-2023)
  - 7.5.5 Bel Fuse Recent Developments/Updates
  - 7.5.6 Bel Fuse Competitive Strengths & Weaknesses
- 7.6 FilConn (Qnnect)
  - 7.6.1 FilConn (Qnnect) Details
  - 7.6.2 FilConn (Qnnect) Major Business

- 7.6.3 FilConn (Qnnect) EMP Connectors and EMI Connectors Product and Services
- 7.6.4 FilConn (Qnnect) EMP Connectors and EMI Connectors Production, Price, Value, Gross Margin and Market Share (2018-2023)
- 7.6.5 FilConn (Qnnect) Recent Developments/Updates
- 7.6.6 FilConn (Qnnect) Competitive Strengths & Weaknesses
- 7.7 ITT Cannon
  - 7.7.1 ITT Cannon Details
  - 7.7.2 ITT Cannon Major Business
  - 7.7.3 ITT Cannon EMP Connectors and EMI Connectors Product and Services
  - 7.7.4 ITT Cannon EMP Connectors and EMI Connectors Production, Price, Value, Gross Margin and Market Share (2018-2023)
  - 7.7.5 ITT Cannon Recent Developments/Updates
  - 7.7.6 ITT Cannon Competitive Strengths & Weaknesses
- 7.8 Cristek Interconnects (Qnnect)
  - 7.8.1 Cristek Interconnects (Qnnect) Details
  - 7.8.2 Cristek Interconnects (Qnnect) Major Business
  - 7.8.3 Cristek Interconnects (Qnnect) EMP Connectors and EMI Connectors Product and Services
  - 7.8.4 Cristek Interconnects (Qnnect) EMP Connectors and EMI Connectors Production, Price, Value, Gross Margin and Market Share (2018-2023)
  - 7.8.5 Cristek Interconnects (Qnnect) Recent Developments/Updates
  - 7.8.6 Cristek Interconnects (Qnnect) Competitive Strengths & Weaknesses
- 7.9 Souriau-Sunbank (Eaton)
  - 7.9.1 Souriau-Sunbank (Eaton) Details
  - 7.9.2 Souriau-Sunbank (Eaton) Major Business
  - 7.9.3 Souriau-Sunbank (Eaton) EMP Connectors and EMI Connectors Product and Services
  - 7.9.4 Souriau-Sunbank (Eaton) EMP Connectors and EMI Connectors Production, Price, Value, Gross Margin and Market Share (2018-2023)
  - 7.9.5 Souriau-Sunbank (Eaton) Recent Developments/Updates
  - 7.9.6 Souriau-Sunbank (Eaton) Competitive Strengths & Weaknesses
- 7.10 Carlisle Interconnect Technologies
  - 7.10.1 Carlisle Interconnect Technologies Details
  - 7.10.2 Carlisle Interconnect Technologies Major Business
  - 7.10.3 Carlisle Interconnect Technologies EMP Connectors and EMI Connectors Product and Services
  - 7.10.4 Carlisle Interconnect Technologies EMP Connectors and EMI Connectors Production, Price, Value, Gross Margin and Market Share (2018-2023)
  - 7.10.5 Carlisle Interconnect Technologies Recent Developments/Updates



- 7.10.6 Carlisle Interconnect Technologies Competitive Strengths & Weaknesses
- 7.11 AEF Solutions
  - 7.11.1 AEF Solutions Details
  - 7.11.2 AEF Solutions Major Business
  - 7.11.3 AEF Solutions EMP Connectors and EMI Connectors Product and Services
  - 7.11.4 AEF Solutions EMP Connectors and EMI Connectors Production, Price, Value, Gross Margin and Market Share (2018-2023)
  - 7.11.5 AEF Solutions Recent Developments/Updates
  - 7.11.6 AEF Solutions Competitive Strengths & Weaknesses
- 7.12 Spectrum Control (formerly APITech)
  - 7.12.1 Spectrum Control (formerly APITech) Details
  - 7.12.2 Spectrum Control (formerly APITech) Major Business
  - 7.12.3 Spectrum Control (formerly APITech) EMP Connectors and EMI Connectors Product and Services
  - 7.12.4 Spectrum Control (formerly APITech) EMP Connectors and EMI Connectors Production, Price, Value, Gross Margin and Market Share (2018-2023)
  - 7.12.5 Spectrum Control (formerly APITech) Recent Developments/Updates
  - 7.12.6 Spectrum Control (formerly APITech) Competitive Strengths & Weaknesses
- 7.13 Quell Corporation
  - 7.13.1 Quell Corporation Details
  - 7.13.2 Quell Corporation Major Business
  - 7.13.3 Quell Corporation EMP Connectors and EMI Connectors Product and Services
  - 7.13.4 Quell Corporation EMP Connectors and EMI Connectors Production, Price, Value, Gross Margin and Market Share (2018-2023)
  - 7.13.5 Quell Corporation Recent Developments/Updates
  - 7.13.6 Quell Corporation Competitive Strengths & Weaknesses
- 7.14 RF Immunity
  - 7.14.1 RF Immunity Details
  - 7.14.2 RF Immunity Major Business
  - 7.14.3 RF Immunity EMP Connectors and EMI Connectors Product and Services
  - 7.14.4 RF Immunity EMP Connectors and EMI Connectors Production, Price, Value, Gross Margin and Market Share (2018-2023)
  - 7.14.5 RF Immunity Recent Developments/Updates
  - 7.14.6 RF Immunity Competitive Strengths & Weaknesses
- 7.15 Conesys (EMP Connectors)
  - 7.15.1 Conesys (EMP Connectors) Details
  - 7.15.2 Conesys (EMP Connectors) Major Business
  - 7.15.3 Conesys (EMP Connectors) EMP Connectors and EMI Connectors Product and Services

7.15.4 Conesys (EMP Connectors) EMP Connectors and EMI Connectors Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.15.5 Conesys (EMP Connectors) Recent Developments/Updates

7.15.6 Conesys (EMP Connectors) Competitive Strengths & Weaknesses

7.16 Mil-Con

7.16.1 Mil-Con Details

7.16.2 Mil-Con Major Business

7.16.3 Mil-Con EMP Connectors and EMI Connectors Product and Services

7.16.4 Mil-Con EMP Connectors and EMI Connectors Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.16.5 Mil-Con Recent Developments/Updates

7.16.6 Mil-Con Competitive Strengths & Weaknesses

## **8 INDUSTRY CHAIN ANALYSIS**

8.1 EMP Connectors and EMI Connectors Industry Chain

8.2 EMP Connectors and EMI Connectors Upstream Analysis

8.2.1 EMP Connectors and EMI Connectors Core Raw Materials

8.2.2 Main Manufacturers of EMP Connectors and EMI Connectors Core Raw Materials

8.3 Midstream Analysis

8.4 Downstream Analysis

8.5 EMP Connectors and EMI Connectors Production Mode

8.6 EMP Connectors and EMI Connectors Procurement Model

8.7 EMP Connectors and EMI Connectors Industry Sales Model and Sales Channels

8.7.1 EMP Connectors and EMI Connectors Sales Model

8.7.2 EMP Connectors and EMI Connectors Typical Customers

## **9 RESEARCH FINDINGS AND CONCLUSION**

## **10 APPENDIX**

10.1 Methodology

10.2 Research Process and Data Source

10.3 Disclaimer



## List Of Tables

### LIST OF TABLES

Table 1. World EMP Connectors and EMI Connectors Production Value by Region (2018, 2022 and 2029) & (USD Million)

Table 2. World EMP Connectors and EMI Connectors Production Value by Region (2018-2023) & (USD Million)

Table 3. World EMP Connectors and EMI Connectors Production Value by Region (2024-2029) & (USD Million)

Table 4. World EMP Connectors and EMI Connectors Production Value Market Share by Region (2018-2023)

Table 5. World EMP Connectors and EMI Connectors Production Value Market Share by Region (2024-2029)

Table 6. World EMP Connectors and EMI Connectors Production by Region (2018-2023) & (K Units)

Table 7. World EMP Connectors and EMI Connectors Production by Region (2024-2029) & (K Units)

Table 8. World EMP Connectors and EMI Connectors Production Market Share by Region (2018-2023)

Table 9. World EMP Connectors and EMI Connectors Production Market Share by Region (2024-2029)

Table 10. World EMP Connectors and EMI Connectors Average Price by Region (2018-2023) & (US\$/Unit)

Table 11. World EMP Connectors and EMI Connectors Average Price by Region (2024-2029) & (US\$/Unit)

Table 12. EMP Connectors and EMI Connectors Major Market Trends

Table 13. World EMP Connectors and EMI Connectors Consumption Growth Rate Forecast by Region (2018 & 2022 & 2029) & (K Units)

Table 14. World EMP Connectors and EMI Connectors Consumption by Region (2018-2023) & (K Units)

Table 15. World EMP Connectors and EMI Connectors Consumption Forecast by Region (2024-2029) & (K Units)

Table 16. World EMP Connectors and EMI Connectors Production Value by Manufacturer (2018-2023) & (USD Million)

Table 17. Production Value Market Share of Key EMP Connectors and EMI Connectors Producers in 2022

Table 18. World EMP Connectors and EMI Connectors Production by Manufacturer (2018-2023) & (K Units)

Table 19. Production Market Share of Key EMP Connectors and EMI Connectors Producers in 2022

Table 20. World EMP Connectors and EMI Connectors Average Price by Manufacturer (2018-2023) & (US\$/Unit)

Table 21. Global EMP Connectors and EMI Connectors Company Evaluation Quadrant

Table 22. World EMP Connectors and EMI Connectors Industry Rank of Major Manufacturers, Based on Production Value in 2022

Table 23. Head Office and EMP Connectors and EMI Connectors Production Site of Key Manufacturer

Table 24. EMP Connectors and EMI Connectors Market: Company Product Type Footprint

Table 25. EMP Connectors and EMI Connectors Market: Company Product Application Footprint

Table 26. EMP Connectors and EMI Connectors Competitive Factors

Table 27. EMP Connectors and EMI Connectors New Entrant and Capacity Expansion Plans

Table 28. EMP Connectors and EMI Connectors Mergers & Acquisitions Activity

Table 29. United States VS China EMP Connectors and EMI Connectors Production Value Comparison, (2018 & 2022 & 2029) & (USD Million)

Table 30. United States VS China EMP Connectors and EMI Connectors Production Comparison, (2018 & 2022 & 2029) & (K Units)

Table 31. United States VS China EMP Connectors and EMI Connectors Consumption Comparison, (2018 & 2022 & 2029) & (K Units)

Table 32. United States Based EMP Connectors and EMI Connectors Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers EMP Connectors and EMI Connectors Production Value, (2018-2023) & (USD Million)

Table 34. United States Based Manufacturers EMP Connectors and EMI Connectors Production Value Market Share (2018-2023)

Table 35. United States Based Manufacturers EMP Connectors and EMI Connectors Production (2018-2023) & (K Units)

Table 36. United States Based Manufacturers EMP Connectors and EMI Connectors Production Market Share (2018-2023)

Table 37. China Based EMP Connectors and EMI Connectors Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers EMP Connectors and EMI Connectors Production Value, (2018-2023) & (USD Million)

Table 39. China Based Manufacturers EMP Connectors and EMI Connectors Production Value Market Share (2018-2023)

Table 40. China Based Manufacturers EMP Connectors and EMI Connectors  
Production (2018-2023) & (K Units)

Table 41. China Based Manufacturers EMP Connectors and EMI Connectors  
Production Market Share (2018-2023)

Table 42. Rest of World Based EMP Connectors and EMI Connectors Manufacturers,  
Headquarters and Production Site (States, Country)

Table 43. Rest of World Based Manufacturers EMP Connectors and EMI Connectors  
Production Value, (2018-2023) & (USD Million)

Table 44. Rest of World Based Manufacturers EMP Connectors and EMI Connectors  
Production Value Market Share (2018-2023)

Table 45. Rest of World Based Manufacturers EMP Connectors and EMI Connectors  
Production (2018-2023) & (K Units)

Table 46. Rest of World Based Manufacturers EMP Connectors and EMI Connectors  
Production Market Share (2018-2023)

Table 47. World EMP Connectors and EMI Connectors Production Value by Type,  
(USD Million), 2018 & 2022 & 2029

Table 48. World EMP Connectors and EMI Connectors Production by Type (2018-2023)  
& (K Units)

Table 49. World EMP Connectors and EMI Connectors Production by Type (2024-2029)  
& (K Units)

Table 50. World EMP Connectors and EMI Connectors Production Value by Type  
(2018-2023) & (USD Million)

Table 51. World EMP Connectors and EMI Connectors Production Value by Type  
(2024-2029) & (USD Million)

Table 52. World EMP Connectors and EMI Connectors Average Price by Type  
(2018-2023) & (US\$/Unit)

Table 53. World EMP Connectors and EMI Connectors Average Price by Type  
(2024-2029) & (US\$/Unit)

Table 54. World EMP Connectors and EMI Connectors Production Value by Application,  
(USD Million), 2018 & 2022 & 2029

Table 55. World EMP Connectors and EMI Connectors Production by Application  
(2018-2023) & (K Units)

Table 56. World EMP Connectors and EMI Connectors Production by Application  
(2024-2029) & (K Units)

Table 57. World EMP Connectors and EMI Connectors Production Value by Application  
(2018-2023) & (USD Million)

Table 58. World EMP Connectors and EMI Connectors Production Value by Application  
(2024-2029) & (USD Million)

Table 59. World EMP Connectors and EMI Connectors Average Price by Application

(2018-2023) & (US\$/Unit)

Table 60. World EMP Connectors and EMI Connectors Average Price by Application

(2024-2029) & (US\$/Unit)

Table 61. Amphenol Basic Information, Manufacturing Base and Competitors

Table 62. Amphenol Major Business

Table 63. Amphenol EMP Connectors and EMI Connectors Product and Services

Table 64. Amphenol EMP Connectors and EMI Connectors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 65. Amphenol Recent Developments/Updates

Table 66. Amphenol Competitive Strengths & Weaknesses

Table 67. Glenair Basic Information, Manufacturing Base and Competitors

Table 68. Glenair Major Business

Table 69. Glenair EMP Connectors and EMI Connectors Product and Services

Table 70. Glenair EMP Connectors and EMI Connectors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 71. Glenair Recent Developments/Updates

Table 72. Glenair Competitive Strengths & Weaknesses

Table 73. TE Connectivity Basic Information, Manufacturing Base and Competitors

Table 74. TE Connectivity Major Business

Table 75. TE Connectivity EMP Connectors and EMI Connectors Product and Services

Table 76. TE Connectivity EMP Connectors and EMI Connectors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 77. TE Connectivity Recent Developments/Updates

Table 78. TE Connectivity Competitive Strengths & Weaknesses

Table 79. Smiths Interconnect Basic Information, Manufacturing Base and Competitors

Table 80. Smiths Interconnect Major Business

Table 81. Smiths Interconnect EMP Connectors and EMI Connectors Product and Services

Table 82. Smiths Interconnect EMP Connectors and EMI Connectors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 83. Smiths Interconnect Recent Developments/Updates

Table 84. Smiths Interconnect Competitive Strengths & Weaknesses

Table 85. Bel Fuse Basic Information, Manufacturing Base and Competitors

Table 86. Bel Fuse Major Business

Table 87. Bel Fuse EMP Connectors and EMI Connectors Product and Services

Table 88. Bel Fuse EMP Connectors and EMI Connectors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 89. Bel Fuse Recent Developments/Updates

Table 90. Bel Fuse Competitive Strengths & Weaknesses

Table 91. FilConn (Qnnect) Basic Information, Manufacturing Base and Competitors

Table 92. FilConn (Qnnect) Major Business

Table 93. FilConn (Qnnect) EMP Connectors and EMI Connectors Product and Services

Table 94. FilConn (Qnnect) EMP Connectors and EMI Connectors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 95. FilConn (Qnnect) Recent Developments/Updates

Table 96. FilConn (Qnnect) Competitive Strengths & Weaknesses

Table 97. ITT Cannon Basic Information, Manufacturing Base and Competitors

Table 98. ITT Cannon Major Business

Table 99. ITT Cannon EMP Connectors and EMI Connectors Product and Services

Table 100. ITT Cannon EMP Connectors and EMI Connectors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 101. ITT Cannon Recent Developments/Updates

Table 102. ITT Cannon Competitive Strengths & Weaknesses

Table 103. Cristek Interconnects (Qnnect) Basic Information, Manufacturing Base and Competitors

Table 104. Cristek Interconnects (Qnnect) Major Business

Table 105. Cristek Interconnects (Qnnect) EMP Connectors and EMI Connectors Product and Services

Table 106. Cristek Interconnects (Qnnect) EMP Connectors and EMI Connectors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 107. Cristek Interconnects (Qnnect) Recent Developments/Updates

Table 108. Cristek Interconnects (Qnnect) Competitive Strengths & Weaknesses

Table 109. Souriau-Sunbank (Eaton) Basic Information, Manufacturing Base and Competitors

Table 110. Souriau-Sunbank (Eaton) Major Business

Table 111. Souriau-Sunbank (Eaton) EMP Connectors and EMI Connectors Product and Services

Table 112. Souriau-Sunbank (Eaton) EMP Connectors and EMI Connectors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market



Share (2018-2023)

Table 113. Souriau-Sunbank (Eaton) Recent Developments/Updates

Table 114. Souriau-Sunbank (Eaton) Competitive Strengths & Weaknesses

Table 115. Carlisle Interconnect Technologies Basic Information, Manufacturing Base and Competitors

Table 116. Carlisle Interconnect Technologies Major Business

Table 117. Carlisle Interconnect Technologies EMP Connectors and EMI Connectors Product and Services

Table 118. Carlisle Interconnect Technologies EMP Connectors and EMI Connectors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 119. Carlisle Interconnect Technologies Recent Developments/Updates

Table 120. Carlisle Interconnect Technologies Competitive Strengths & Weaknesses

Table 121. AEF Solutions Basic Information, Manufacturing Base and Competitors

Table 122. AEF Solutions Major Business

Table 123. AEF Solutions EMP Connectors and EMI Connectors Product and Services

Table 124. AEF Solutions EMP Connectors and EMI Connectors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 125. AEF Solutions Recent Developments/Updates

Table 126. AEF Solutions Competitive Strengths & Weaknesses

Table 127. Spectrum Control (formerly APITech) Basic Information, Manufacturing Base and Competitors

Table 128. Spectrum Control (formerly APITech) Major Business

Table 129. Spectrum Control (formerly APITech) EMP Connectors and EMI Connectors Product and Services

Table 130. Spectrum Control (formerly APITech) EMP Connectors and EMI Connectors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 131. Spectrum Control (formerly APITech) Recent Developments/Updates

Table 132. Spectrum Control (formerly APITech) Competitive Strengths & Weaknesses

Table 133. Quell Corporation Basic Information, Manufacturing Base and Competitors

Table 134. Quell Corporation Major Business

Table 135. Quell Corporation EMP Connectors and EMI Connectors Product and Services

Table 136. Quell Corporation EMP Connectors and EMI Connectors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 137. Quell Corporation Recent Developments/Updates

Table 138. Quell Corporation Competitive Strengths & Weaknesses

Table 139. RF Immunity Basic Information, Manufacturing Base and Competitors

Table 140. RF Immunity Major Business

Table 141. RF Immunity EMP Connectors and EMI Connectors Product and Services

Table 142. RF Immunity EMP Connectors and EMI Connectors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 143. RF Immunity Recent Developments/Updates

Table 144. RF Immunity Competitive Strengths & Weaknesses

Table 145. Conesys (EMP Connectors) Basic Information, Manufacturing Base and Competitors

Table 146. Conesys (EMP Connectors) Major Business

Table 147. Conesys (EMP Connectors) EMP Connectors and EMI Connectors Product and Services

Table 148. Conesys (EMP Connectors) EMP Connectors and EMI Connectors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 149. Conesys (EMP Connectors) Recent Developments/Updates

Table 150. Mil-Con Basic Information, Manufacturing Base and Competitors

Table 151. Mil-Con Major Business

Table 152. Mil-Con EMP Connectors and EMI Connectors Product and Services

Table 153. Mil-Con EMP Connectors and EMI Connectors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 154. Global Key Players of EMP Connectors and EMI Connectors Upstream (Raw Materials)

Table 155. EMP Connectors and EMI Connectors Typical Customers

Table 156. EMP Connectors and EMI Connectors Typical Distributors

## **LIST OF FIGURE**

Figure 1. EMP Connectors and EMI Connectors Picture

Figure 2. World EMP Connectors and EMI Connectors Production Value: 2018 & 2022 & 2029, (USD Million)

Figure 3. World EMP Connectors and EMI Connectors Production Value and Forecast (2018-2029) & (USD Million)

Figure 4. World EMP Connectors and EMI Connectors Production (2018-2029) & (K Units)

Figure 5. World EMP Connectors and EMI Connectors Average Price (2018-2029) &

(US\$/Unit)

Figure 6. World EMP Connectors and EMI Connectors Production Value Market Share by Region (2018-2029)

Figure 7. World EMP Connectors and EMI Connectors Production Market Share by Region (2018-2029)

Figure 8. North America EMP Connectors and EMI Connectors Production (2018-2029) & (K Units)

Figure 9. Europe EMP Connectors and EMI Connectors Production (2018-2029) & (K Units)

Figure 10. China EMP Connectors and EMI Connectors Production (2018-2029) & (K Units)

Figure 11. Japan EMP Connectors and EMI Connectors Production (2018-2029) & (K Units)

Figure 12. EMP Connectors and EMI Connectors Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World EMP Connectors and EMI Connectors Consumption (2018-2029) & (K Units)

Figure 15. World EMP Connectors and EMI Connectors Consumption Market Share by Region (2018-2029)

Figure 16. United States EMP Connectors and EMI Connectors Consumption (2018-2029) & (K Units)

Figure 17. China EMP Connectors and EMI Connectors Consumption (2018-2029) & (K Units)

Figure 18. Europe EMP Connectors and EMI Connectors Consumption (2018-2029) & (K Units)

Figure 19. Japan EMP Connectors and EMI Connectors Consumption (2018-2029) & (K Units)

Figure 20. South Korea EMP Connectors and EMI Connectors Consumption (2018-2029) & (K Units)

Figure 21. ASEAN EMP Connectors and EMI Connectors Consumption (2018-2029) & (K Units)

Figure 22. India EMP Connectors and EMI Connectors Consumption (2018-2029) & (K Units)

Figure 23. Producer Shipments of EMP Connectors and EMI Connectors by Manufacturer Revenue (\$MM) and Market Share (%): 2022

Figure 24. Global Four-firm Concentration Ratios (CR4) for EMP Connectors and EMI Connectors Markets in 2022

Figure 25. Global Four-firm Concentration Ratios (CR8) for EMP Connectors and EMI Connectors Markets in 2022



Figure 26. United States VS China: EMP Connectors and EMI Connectors Production Value Market Share Comparison (2018 & 2022 & 2029)

Figure 27. United States VS China: EMP Connectors and EMI Connectors Production Market Share Comparison (2018 & 2022 & 2029)

Figure 28. United States VS China: EMP Connectors and EMI Connectors Consumption Market Share Comparison (2018 & 2022 & 2029)

Figure 29. United States Based Manufacturers EMP Connectors and EMI Connectors Production Market Share 2022

Figure 30. China Based Manufacturers EMP Connectors and EMI Connectors Production Market Share 2022

Figure 31. Rest of World Based Manufacturers EMP Connectors and EMI Connectors Production Market Share 2022

Figure 32. World EMP Connectors and EMI Connectors Production Value by Type, (USD Million), 2018 & 2022 & 2029

Figure 33. World EMP Connectors and EMI Connectors Production Value Market Share by Type in 2022

Figure 34. Circular Connectors

Figure 35. Rectangular Connectors

Figure 36. Others

Figure 37. World EMP Connectors and EMI Connectors Production Market Share by Type (2018-2029)

Figure 38. World EMP Connectors and EMI Connectors Production Value Market Share by Type (2018-2029)

Figure 39. World EMP Connectors and EMI Connectors Average Price by Type (2018-2029) & (US\$/Unit)

Figure 40. World EMP Connectors and EMI Connectors Production Value by Application, (USD Million), 2018 & 2022 & 2029

Figure 41. World EMP Connectors and EMI Connectors Production Value Market Share by Application in 2022

Figure 42. Military & Defense

Figure 43. Space Application

Figure 44. Aviation & UAV

Figure 45. Industrial Application

Figure 46. Medical Devices

Figure 47. Others

Figure 48. World EMP Connectors and EMI Connectors Production Market Share by Application (2018-2029)

Figure 49. World EMP Connectors and EMI Connectors Production Value Market Share by Application (2018-2029)

Figure 50. World EMP Connectors and EMI Connectors Average Price by Application (2018-2029) & (US\$/Unit)

Figure 51. EMP Connectors and EMI Connectors Industry Chain

Figure 52. EMP Connectors and EMI Connectors Procurement Model

Figure 53. EMP Connectors and EMI Connectors Sales Model

Figure 54. EMP Connectors and EMI Connectors Sales Channels, Direct Sales, and Distribution

Figure 55. Methodology

Figure 56. Research Process and Data Source

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