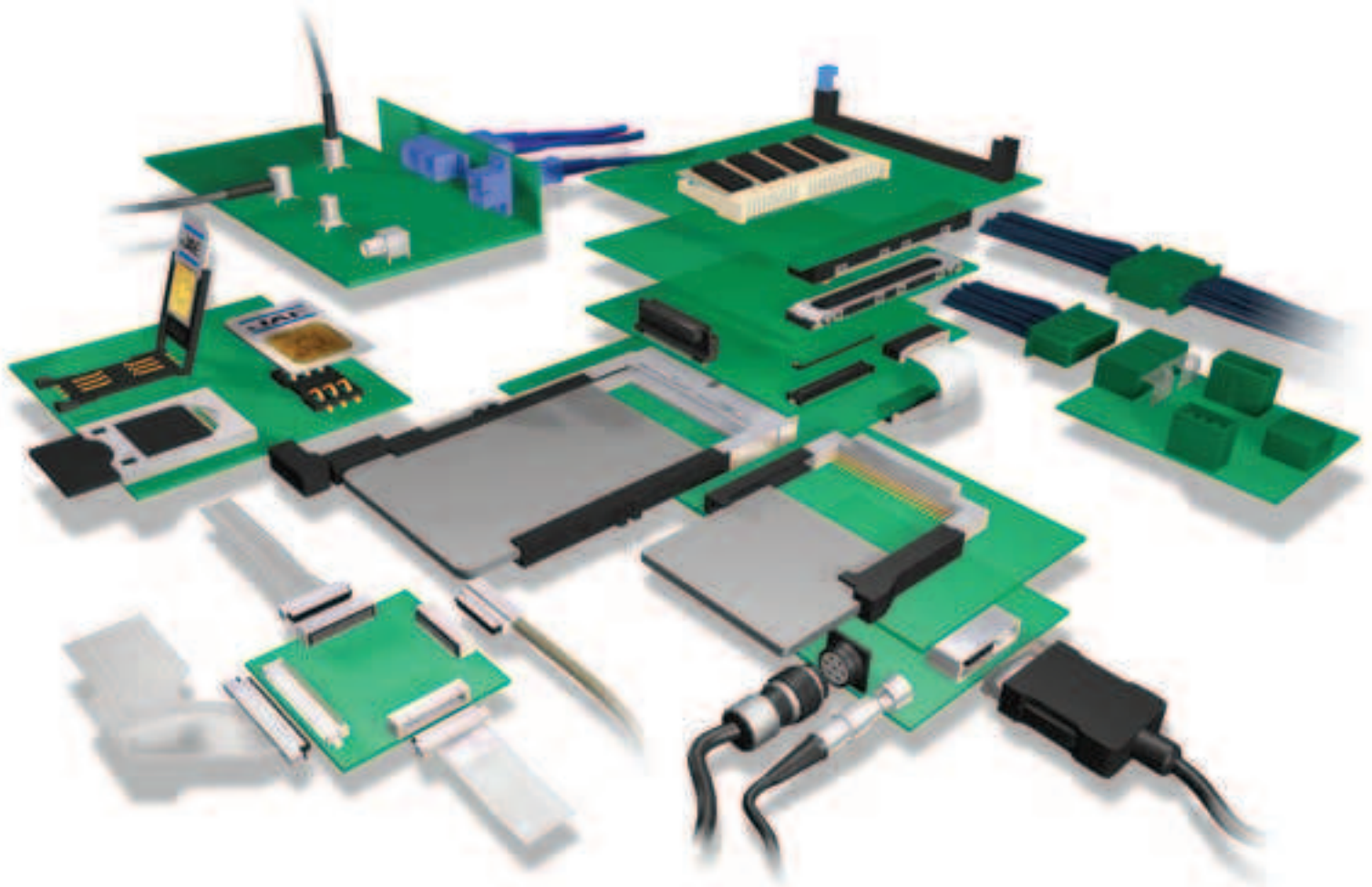


Technology to Inspire Innovation

# ***Preferred Connector Products***

# **JAE**



***JAE Electronics, Inc.***

***For Additional Information Visit [www.jae-connector.com](http://www.jae-connector.com)***

**J**apan Aviation Electronics Industry, Ltd. (JAE) is an international manufacturer and supplier of electronic components and systems. For over four decades, JAE has provided the electronics industry with solutions to complex design requirements. Since its founding, the Company has strived to contribute to society through market-driven, technology-based global business operations under the philosophy: "Technology to Inspire Innovation."

With worldwide and world-class manufacturing certified to ISO 9001 and QS 9000, JAE has made the commitment to meet the global requirements of our customer. In addition to a network of state of the art manufacturing facilities, JAE has technical service offices located around the world, staffed with experts in connector design and application.

This catalog contains a select overview of JAE Connector Products. For in-depth information on our complete product line, and information on new developments, visit JAE's online catalog at [www.jae-connector.com](http://www.jae-connector.com).

Innovative design, quality oriented manufacturing, commitment to our customers and sensitivity to the environment assures JAE's leadership position in the 21<sup>st</sup> century.

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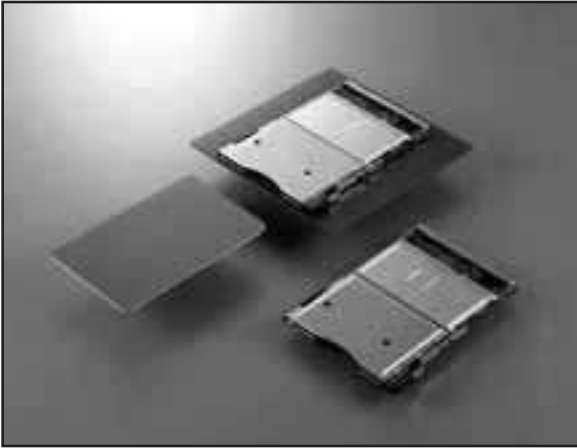
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- All JAE connector products shown in this catalog are lead free.
- We reserve the right to modify designs in order to improve quality, keep pace with technological advancements or meet particular requirements in production.
- Products shown in this catalog are made for the applications specified. However, if the above-mentioned products are to be used in aerospace devices, marine cable-connection devices, atomic power control systems, medical equipment for life-support systems, or any other specific application requiring extremely high reliability, please contact JAE for further information. Recommended Applications: Computers, Office Machines, Measuring Devices, Telecommunications Devices (Terminals, Mobile Devices) AV Devices, Household Applications, FA Devices, etc.
- Refer to end of catalog for alphabetical index of products.

# SF6 SERIES CONNECTORS

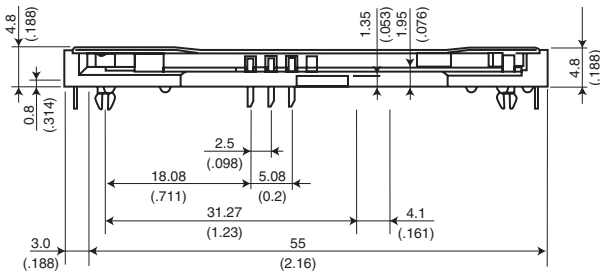
## 2.54mm (.100") Contact Spacing, Smart Card, Through Hole Connector



### FEATURES

- Compliant to ISO 7816 Standard Smart Card
- Super thin 4.8mm height
- ZIF structure to achieve over 200,000 mating cycles
- Card detection
- One-touch card ejection
- Card lock to prevent removal during shock and vibration
- Solid "click" feeling when mating

Connector Profile (Ref.)



.....

The SF6 Series is a super-thin (4.8mm) socket for ISO 7816 standard Smart Cards. Applications include various electronic equipment utilizing smart cards, POS stations, computer equipment, telecommunications equipment, and ID administrative systems.

### GENERAL SPECIFICATIONS

|                                 |                                                                                             |
|---------------------------------|---------------------------------------------------------------------------------------------|
| Number of Contacts              | 8 (6-signal + 2-switch)<br>10 (8-signal + 2-switch)                                         |
| Contact Spacing                 | 2.54mm (0.100")                                                                             |
| Current Rating                  | Signal contact: 1 Amp<br>Switch: 10 milliamps                                               |
| Dielectric Withstanding Voltage | Signal contact: 500 VAC r.m.s. (for one minute),<br>Switch: 100 VAC r.m.s. (for one minute) |
| Insulation Resistance           | Signal contact: 1000 megohms min.,<br>Switch: 100 megohms min.                              |
| Contact Resistance              | Signal contact 50 milliohms max.<br>Switch contact 200 milliohms max.                       |
| Operating Temperature           | -30°C to +85°C                                                                              |
| Mating Cycles                   | 100,000 times; 200,000 times (cycles)                                                       |

### MATERIALS AND FINISHES

|             |                                                                                               |
|-------------|-----------------------------------------------------------------------------------------------|
| Description | Materials/Finishes                                                                            |
| Insulator   | Glass-filled PBT (UL94V-0)                                                                    |
| Cover       | Stainless Steel                                                                               |
| Contact     | Copper alloy<br>Connecting area: Gold Plating over Nickel<br>SMT area: Gold Flash over Nickel |

### ORDERING INFORMATION

|                              |     |   |      |   |   |
|------------------------------|-----|---|------|---|---|
| Series                       | SF6 | U | 0**S | 9 | * |
| Thru-hole                    |     |   |      |   |   |
| No. of Pos.                  |     |   |      |   |   |
| 008 – 8 contacts             |     |   |      |   |   |
| 010 – 10 contacts            |     |   |      |   |   |
| Contact Finish               |     |   |      |   |   |
| 9 – Gold Plating over Nickel |     |   |      |   |   |
| Modification Code            |     |   |      |   |   |



Technology to Inspire Innovation

# JAE

***"Building Technologies  
to Connect Your World"***



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