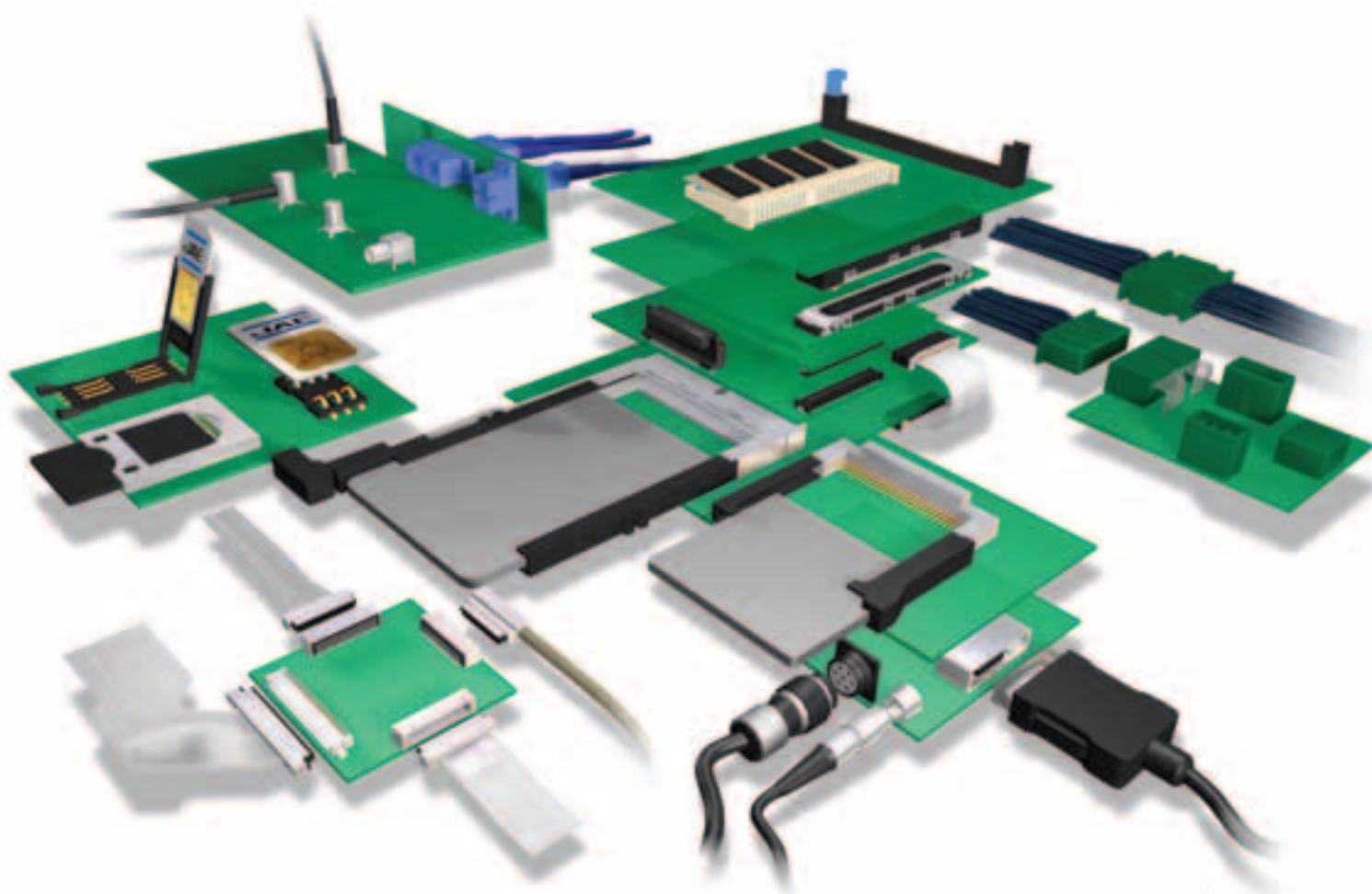


Technology to Inspire Innovation

# Preferred Connector Products

# JAE



**JAE Electronics, Inc.**

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

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## Introduction

**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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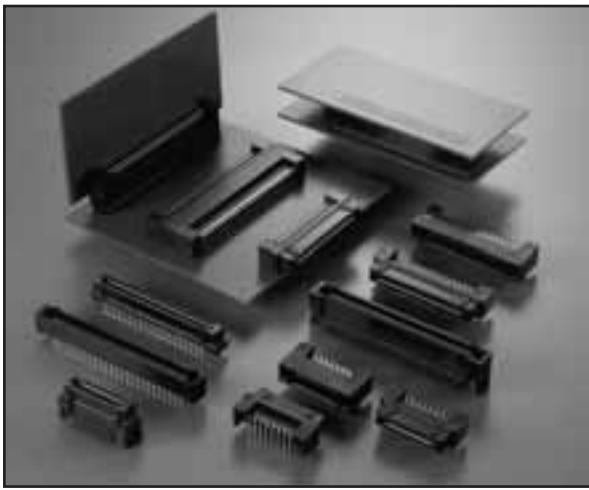
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- All JAE connector products shown in this catalog are lead free.
- We reserve the right to modify designs in order to improve quality, keep pace with technological advancements or meet particular requirements in production.
- Products shown in this 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.

# TX24/25 SERIES CONNECTORS

## 1.27mm (.050") Contact Spacing, PCB-toPCB Connectors



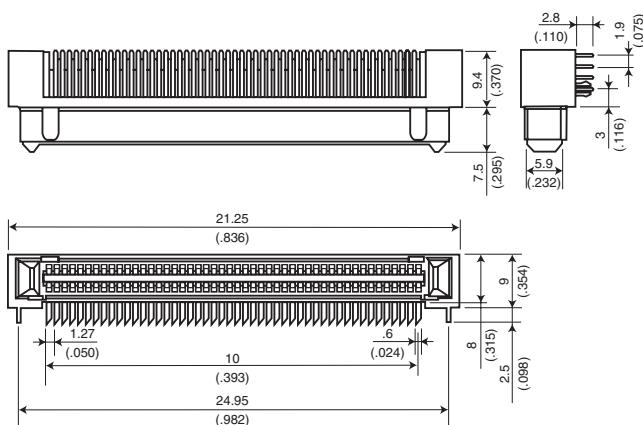
### FEATURES

- Non-pin type contacts withstanding mating/unmating twisting forces
- Available for seven parallel board-to-board distances
- Polarizing key for easy insertion
- "Click action" connection
- Prevents solder flux contamination
- Easy PCB pattern

(Note: 1) Stacking Heights

Straight types are available with three insulator heights can be selected within the range of 12 to 24mm (0.472 to 0.945") in 2mm (0.79") intervals, depending on the socket and pin combinations.

Connector Profile (Ref.)



• • • • • • • • • • •

The TX24/25 Series of connectors are designed for PCB-to-PCB applications. Combinations of straight and right angle through hole pin and socket connectors permit horizontal, parallel and vertical interconnection of boards. For straight through hole connectors, the distance for parallel board-to-board connections ranges from 12 to 24mm (0.472 to 0.945") in 2mm (0.079") intervals. A long electrical engagement length results in a highly reliable and stable connection. Non-pin type contacts withstand mating and unmating twisting forces and an excellent "click action" design assures a true connection. The stable housing with polarizing keys is suitable for rack and panel applications.

### GENERAL SPECIFICATIONS

Number of Contacts	30, 40, 50, 60, 80, 100
Contact Spacing	1.27mm (.050") 2 rows
PCB Mounting Side Pattern	1.27 x 1.905mm (.50 x .075"), staggered 4 rows
Current Rating	1 Amp
Dielectric Withstanding Voltage	500 VAC r.m.s. (for one minute)
Insulation Resistance	100 megohms min.
Contact Resistance	40 milliohms max.
Operating Temperature	-40°C to +80°C
PCB Thickness	1.6mm (0.063")

### MATERIALS AND FINISHES

Description	Materials/Finishes
Insulator	Glass-filled PBT (UL94V-0, Black)
Hook Pin	Copper Alloy/Tin Plating
Contact	Copper Alloy Connection area: Gold plating, 01µm (.000004") min over Nickel Terminal area: Tin plating

### ORDERING INFORMATION

Series	TX** - ** * - ** ** - * ** E
No. of Contacts	TX24/TX25
Connector Type	30, 40, 50, 60, 80, 100
Stacking Height Code (See table)	R – Socket      P – Pin
Termination Style	ST – Straight Through Hole
Hook Pins	LT – Right-Angle Through Hole
Contact Finish	H – With Hook Pins      N – Without Hook Pins
1 – Connecting Area: Gold plating 01µm (.000004") over Nickel	
Lead Free Version	

Dimensions and specifications subject to change without notice.

Technology to Inspire Innovation

# JAE

## "Building Technologies to Connect Your World"



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