

Technology to Inspire Innovation

Preferred Connector Products

JAE



JAE Electronics, Inc.

For Additional Information Visit www.jae-connector.com

Japan 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.

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

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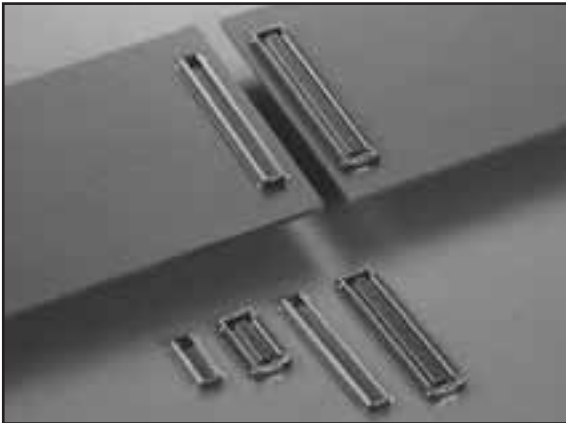
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- All JAE connector products shown in this catalog are lead free.
- We reserve the right to modify designs in order to improve quality, keep pace with technological advancements or meet particular requirements in production.
- Products shown in this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

AA03 SERIES CONNECTORS

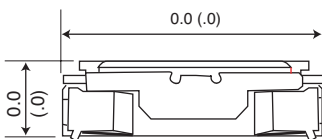
0.40mm (.016") Contact Spacing, PCB to PCB SMT Connectors



FEATURES

- 0.4mm (.016") contact spacing; double row; 22 to 80 positions; stacking height: 1.0mm (.039")
- High abrasion resistant contact structure provides increased contact reliability
- Secure hold-down prevents insulator breakage or lift-off from FPC (receptacle side)
- Separate 2-point contact design resists twisting stress
- Lead-free and nickel barrier in contact prevents solder migration
- Connectors for both inspection jigs are provided for both plug and receptacle
- Standard products (3,000 pieces/reel) and inspection jig products (300 pieces/reel) supplied on emboss tape

Connector Profile (Ref.)



The AA03 Series connectors have 0.40mm (.016") pitch, and 1.0mm (.039") height board-to-board connection that is ideal for slim, low-profiled information communication devices such as mobile phones, LCDs and PDAs, with high density mounting requirements.

GENERAL SPECIFICATIONS

Number of Contacts	22, 30, 36, 40, 50, 64, 80 pos.
Contact Spacing	0.40mm (.016")
Contact Resistance	70 milliohms (initial)
Dielectric Withstanding Voltage	250 VAC r.m.s. (for one minute)
Insulation Resistance	100 megohms min. (initial)
Rated Current	AC, DC 0.4A (per pin)
Operating Temperature	-40°C to +85°C
Contact Life Durability	50 cycles min.
Rated Voltage	AC, DC 50V
Pitch	0.4mm (.016"), 2 rows
Total Insertion Force	1N x n max. (n: pos.)
Total Withdrawal Force	0.15N x n min. (n: pos.)

MATERIALS AND FINISHES

•Base Side

Components	Materials/Finishes
Insulator	Heat Resistant Plastic (UL94V-0, Black)
Contact	Copper Alloy Contact Area: Gold Plating (0.1µm min.)
Hold-down	Plug: Copper Alloy/ Gold plating (0.1µm min.) Receptacle: Copper Alloy/Tin type plating

ORDERING INFORMATION

Series	AA03	*	***	V	A	*	R****
Contact Shape							
P – Plug Side							
S – Receptacle Side							
No. of Contacts							
020 – 20 position	040 – 40 position						
022 – 22 position	050 – 50 position						
024 – 24 position	064 – 64 position						
030 – 30 position	070 – 70 position						
036 – 36 position	080 – 80 position						
Connection Type							
V – Stacking Type							
Finish							
A – Gold Plating							
Modify Code							
None – Without shield plate							
1 – Socket Side							
2 – Plug Side							
E – For Inspection Jig.							
Tape and Reel							
R6000 – 6,000 pcs/reel (Standard Product)							
R300 – 300 pcs/reel (Inspection Jig)							

Dimensions and specifications subject to change without notice.

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***“Building Technologies
to Connect Your World”***



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