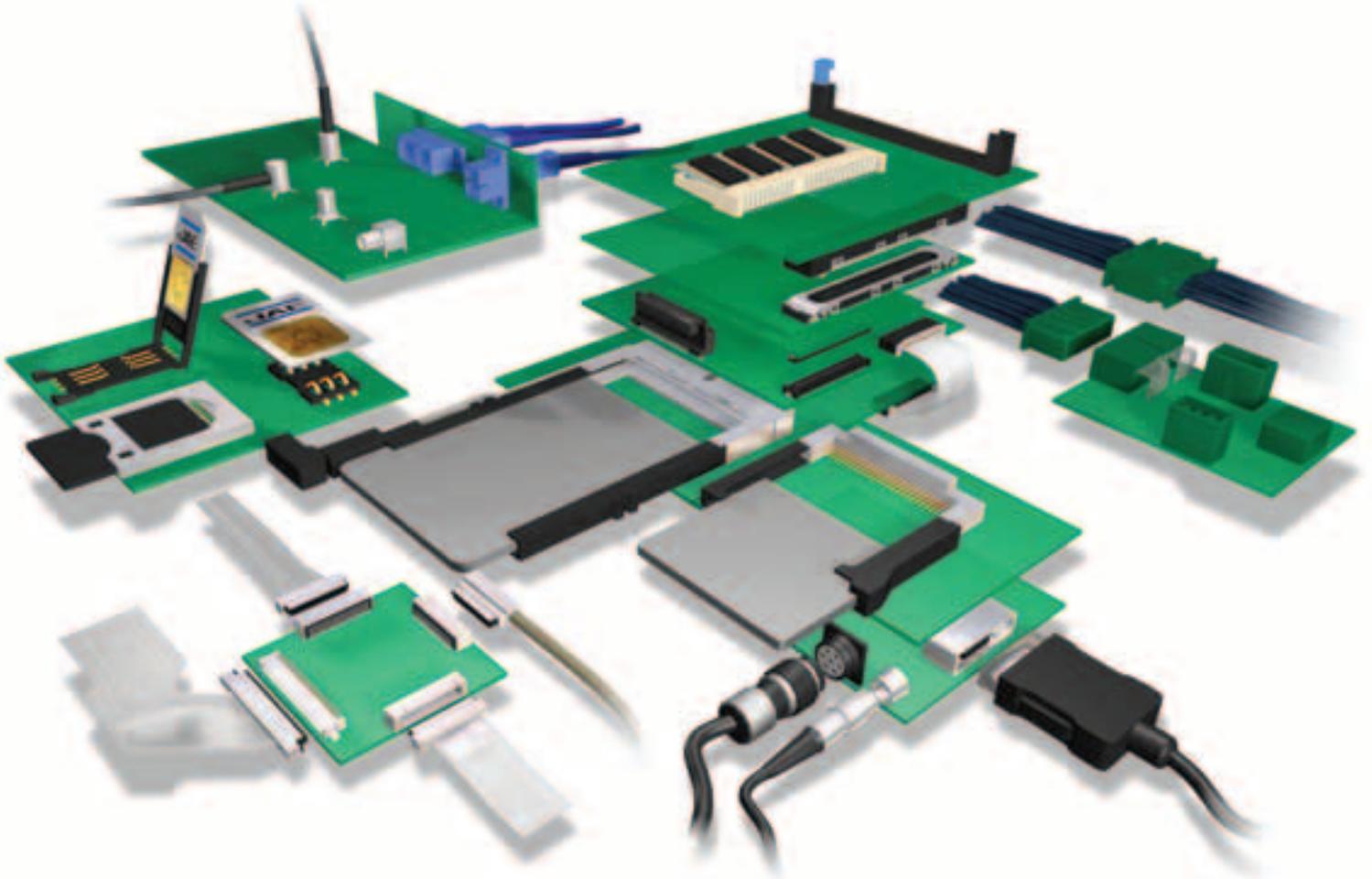


Technology to Inspire Innovation

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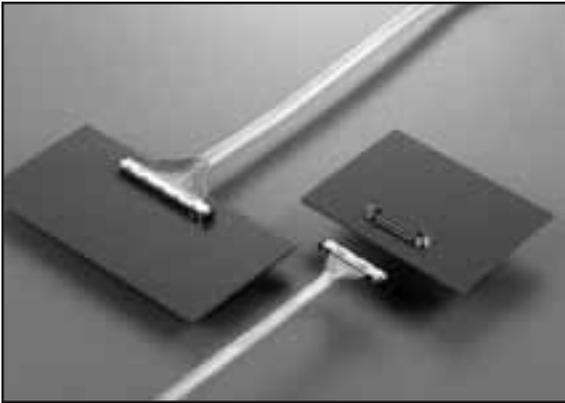
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- All JAE connector products shown in this catalog are lead free.
- We reserve the right to modify designs in order to improve quality, keep pace with technological advancements or meet particular requirements in production.
- Products shown in this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

FI-J SERIES CONNECTORS

0.40mm (0.15") Contact Spacing, PCB-to-Cable/FPC Connector



FEATURES

- Smallest 0.40mm (0.05") mounting board space in the industry
- 2.5mm (0.10") depth 1.58mm (0.06") height and 40 pin version has 21.7mm (0.85") pitch direction
- Stable connection with 0.40mm (0.15") contact length
- Highly reliable structure with supported contact points
- Gold-plated ground contact points ensure low contact resistance between plug and receptacle, plus a stable connection
- Features a mis-mating prevention structure
- Compatible with AWG 42 and AWG 44 cables
- Receptacle side available on embossed tape for automatic mounting
- Receptacle side of connector features a solder migration prevention structure, with Nickel barrier on receptacle plug
- Plug side of connector features a small hinge that can be passed through after harness assembly



The FI-J Series connectors are compatible with AWG #42 and #44 cables for mobile phones. They feature the smallest board mounting space in the industry compared with other 0.40mm (0.15") pitch connectors with a 2.5mm (0.10") depth and 1.58mm (0.06") height. The connectors also feature a mis-mating prevention structure and the small hinge on the plug side can be passed through after harness processing. The connector receptacle side is available on embossed tape for automatic mounting and ensures high mounting performance with an absorption cap.

GENERAL SPECIFICATIONS

Number of Contacts	20, 25, 30, 35, 40 pos.
Contact Spacing	0.40mm (0.15")
Operating Temperature	-40°C to +85°C
Contact Resistance	40 milliohm max.
Lifetime	30 times
Rated Current	AC, DC each 0.3A per pos.
Rated Voltage	AC, DC each 50V per pos.
Insulation Resistance	100 megohms min.
Dielectric Withstanding Voltage	250 VAC r.m.s. (for one minute)
Applicable Cable	AWG#42 to 44

MATERIALS AND FINISHES

Description	Materials/Finishes
• Receptacle	
Contact	Copper Alloy Contact portion, Terminal portion: Gold flash plating over Nickel
Hold Down	Copper Alloy Contact Portion, Terminal portion: Gold flash plating over Nickel
Insulator	Heat resistant plastic (UL94V-0)
Adsorption Insulator	Heat resistant plastic (UL94V-0)
• Plug	
Contact	Copper Alloy Contact portion, Terminal portion: Gold flash plating over Nickel
Insulator	Heat resistant plastic (UL94V-0)
Shell	Stainless Steel/ Gold plating over Nickel

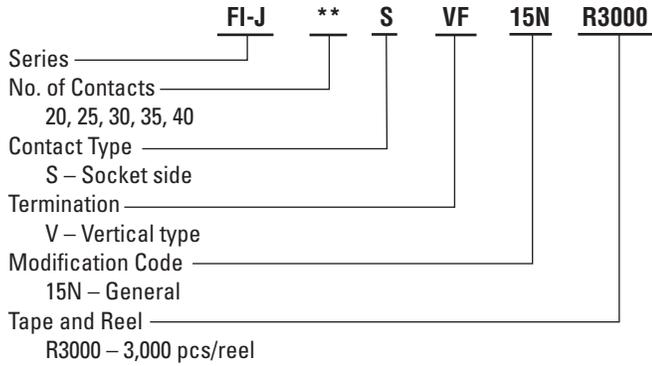
Dimensions and specifications subject to change without notice.

FI-J SERIES CONNECTORS

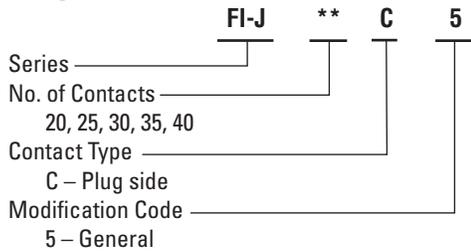
0.40mm (0.15") Contact Spacing, PCB-to-Cable/FPC Connector

ORDERING INFORMATION

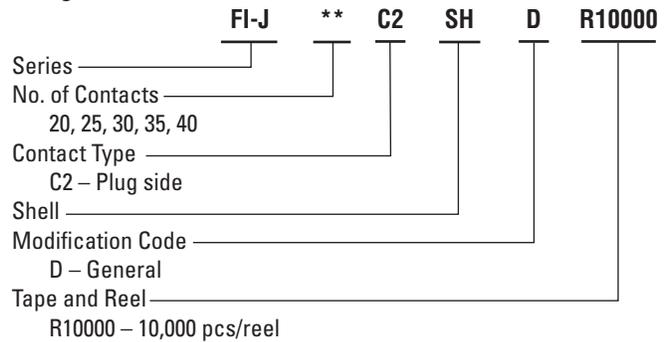
• Receptacle Side



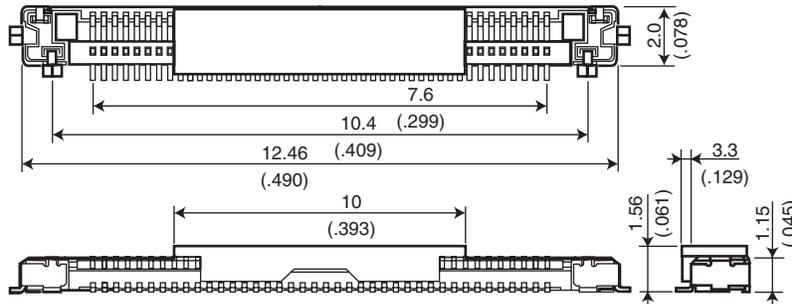
• Plug Side: Insulator



• Plug Side: Shell



Connector Profile (Ref.)



Dimensions in mm (inches).

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JAE

***“Building Technologies
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Japan Aviation Electronics Industry, Limited

1-19, Aobadai 3-chome, Meguro-ku
Tokyo 153-8539, Japan
Telephone: 03-3780-2736
Fax: 03-3780-2883

JAE Electronics, Inc.

142 Technology Drive, Suite 100
Irvine, California 92618-2430, U.S.A.
Telephone: 949-753-2600
Fax: 949-753-2699
800-523-7278 Toll free in the U.S.A.

JAE Europe

Coliseum Business Centre
Riverside Way, Camberley
Surrey, GU15 3YL, England
Telephone: 44-1276-404000
Fax: 44-1276-404010

JAE Taiwan, Ltd.

4F-1, No. 88, Chung Hsiao E. Rd.
Sec. 2, Taipei, Taiwan, R.O.C.
Telephone: 886-2-2396-7676
Fax: 886-2-2392-5929

JAE Hong Kong, Ltd.

Suites 1407-11, 14/F, Tower 2, The Gateway,
25 Canton Road, Tsimshatsui, Kowloon, Hong Kong
Telephone: 852-2723-7782
Fax: 852-2723-9028

JAE Korea, Inc.

1602, Korea City Air Tower
159-9 Samsung-Dong, Kangnam-ku
Seoul, 135-973, Korea
Telephone: 82-2-551-8959
Fax: 82-2-551-8958

JAE Philippines, Inc.

PEZA Zone, Gateway Business Park, Javalera
General Trias, 4107 Cavite, Philippines
Telephone: 63-46-433-0285
Fax: 63-46-433-0287

JAE Singapore Pte., Ltd.

33 Tannery Lane, #02-01 Hoesteel
Industrial Building
Singapore 347789
Telephone: 65-6748-1332
Fax: 65-6748-2920

JAE Shanghai Co., Ltd.

RM 1407, Shanghai Mart 2299 Yanan Rd.
West Shanghai 200336 P.R.C.
Telephone: 86-21-6236-0322
Fax: 86-21-6236-1292

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