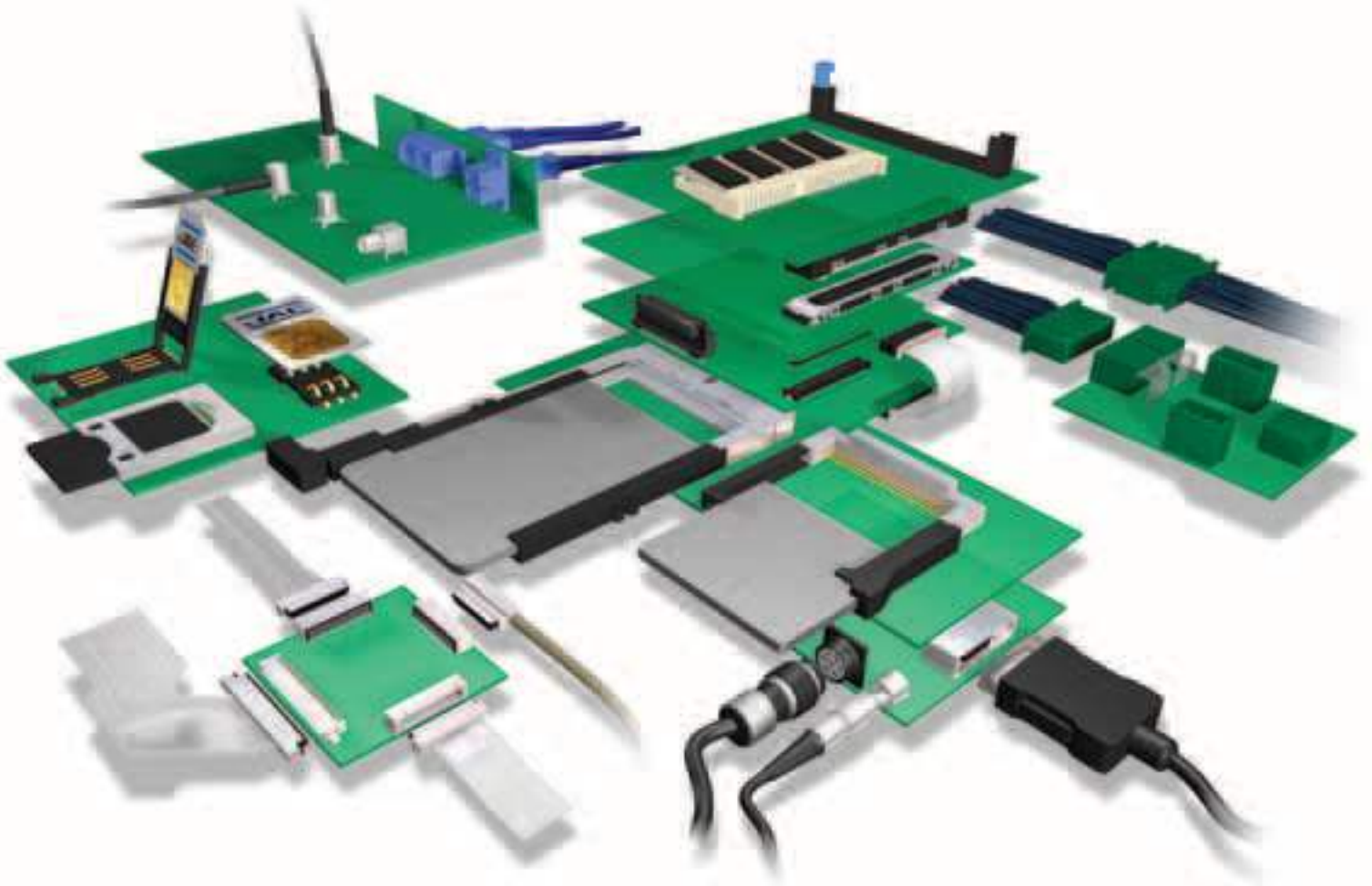


Technology to Inspire Innovation

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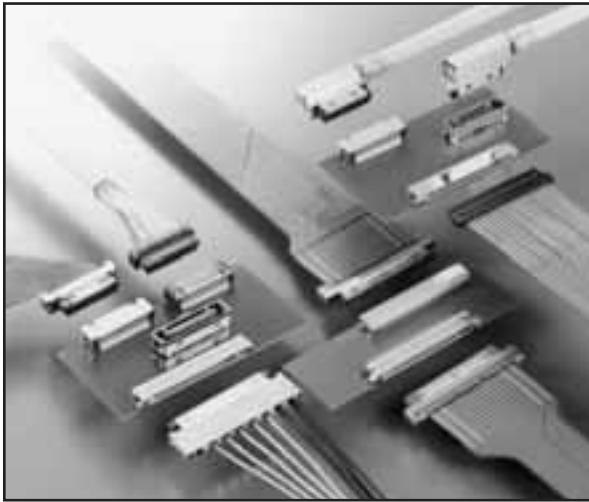
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- All JAE connector products shown in this catalog are lead free.
- We reserve the right to modify designs in order to improve quality, keep pace with technological advancements or meet particular requirements in production.
- Products shown in this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

# FI SERIES CONNECTORS

## 1.25mm (.049") Contact Spacing, Connector for PCB-to-Cable



### FEATURES

- Socket housing available with or without a shield
- Flex connector available
- Pin header available on embossed tape for automatic SMT mounting
- Dependable pin-type double contacts (post and box)
- Friction lock housing enables secure connections

Refer to Ordering Information for Connector Profiles.

.....

FI Series connectors are designed for board-to-cable applications. High-density 1.25mm (.049") contact spacing SMT single and double row shielded and unshielded versions available. They are used in notebook PCs, VCR's, mobile phones, and other consumer applications, where reduced space is a requirement.

### GENERAL SPECIFICATIONS

Number of Contacts	Single row: 2-6, 8, 10, 15, 20, 25, 30 Double row: 5-21 (every 2 pins), 31, 41
Contact Spacing	1.25mm (.049")
Current Rating	AC/DC 1 Amp per contact
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
Applicable Wire Sizes	#28 to #32 AWG
Applicable FPC	.625mm (.025") Center .14mm (.006") Thick

### MATERIALS AND FINISHES

#### • Pin Header

Description	Materials/Finishes
Insulator	Single Row: Glass-filled PPS (UL94V-0, Black) Double Row: Glass-filled LCP (UL94V-0, Beige)
Contact	Copper Alloy Connecting area: Gold 0.1µm min. over Nickel Terminal area: Tin-Lead over Nickel plating
Shell	Copper Alloy/Tin plating
Hold-down	Copper Alloy/Tin over Nickel

#### • FPC

Insulator	Glass-filled PPS (UL94V-0, Black)
Contact	Copper Alloy Connecting area: Gold 0.1 (.000004") min. over Nickel FPC area: Tin over Nickel plating
Shell	Copper Alloy/Tin plating
Slider	Glass-filled PPS (UL94V-0, Brown)

#### • Socket Housing

Housing	Glass-filled PPS (UL94V-0, Black)
Socket Contact	Phosphor Bronze/Gold over Nickel

Consult JAE for other available sizes.

Dimensions and specifications subject to change without notice.

# FI SERIES CONNECTORS

## 1.25mm (.049") Contact Spacing, Connector for PCB-to-Cable

### SINGLE ROW

#### Board Side Receptacle

#### Right Angle Standard Mount Shielded FI-S\*\*\*P-HFE

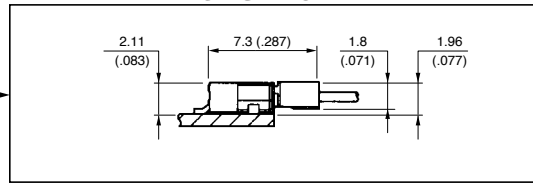


Note: Shielding only available in 20 position.

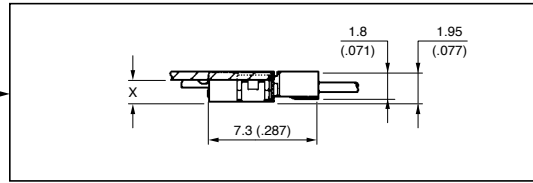
#### Right Angle Reverse Mount Shielded FI-SEB20P-HFE



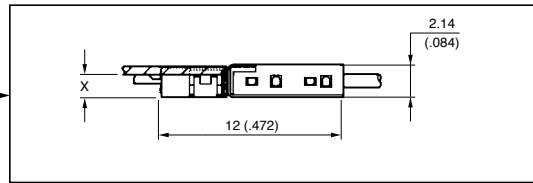
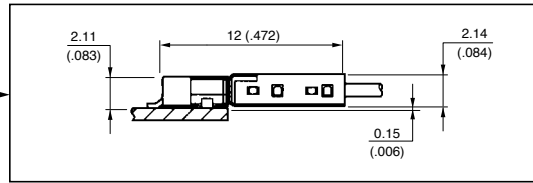
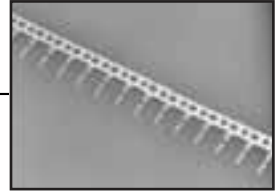
Type	Size
HF	1.48 (.058)
HF13	1.3 (.051)
HF10	1.0 (.039)



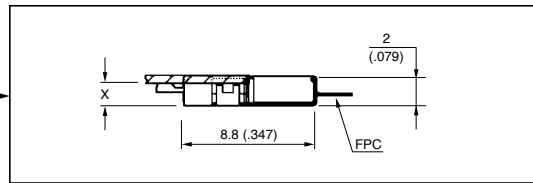
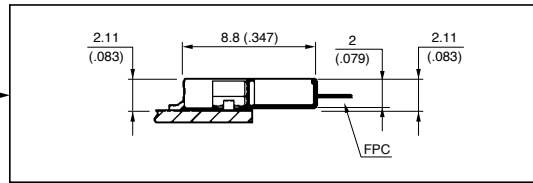
#### Cable Side Plug Discrete Wire Unshielded FI-S\*\*\*S



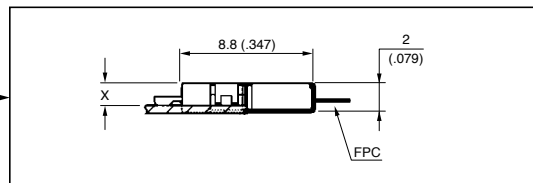
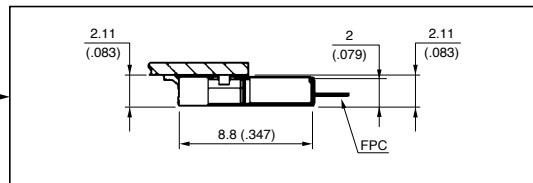
#### Socket Contact FI-C3-A1-15000



#### Standard Shielded FI-SE20ME



#### FPC-Reverse FI-SE20MRE



Dimensions in mm (inches).

# FI SERIES CONNECTORS

1.25mm (.049") Contact Spacing, Connector for PCB-to-Cable

DOUBLE ROW

## Board Side Receptacle

Right Angle, Unshielded  
21, 31, 41 Sizes  
FI-W\*P-HFE



## Cable Side Plug

Discrete Wire, Shielded  
21, 31, 41 Sizes  
FI-W\*S



Right Angle, Shielded  
21, 31, 41 Sizes  
FI-WE\*P-HFE



Socket Contact  
FI-C3-A1-15000



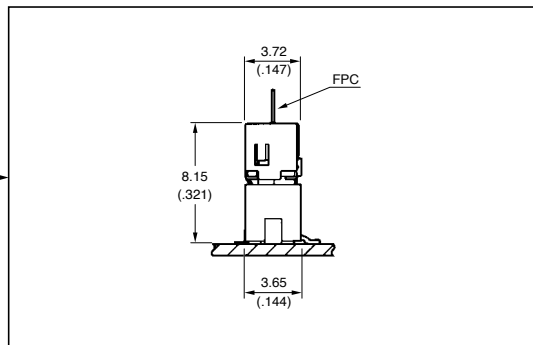
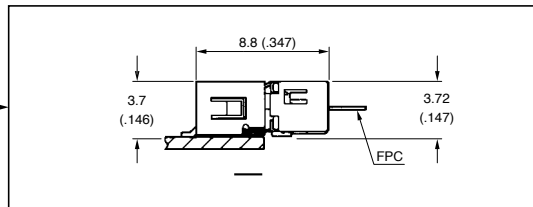
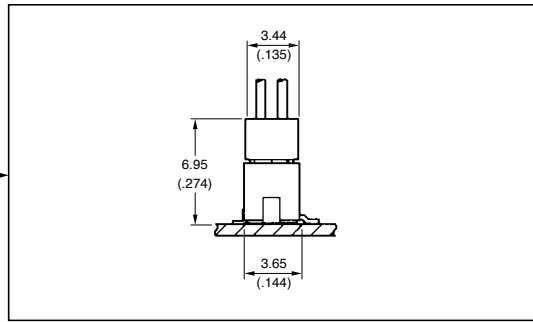
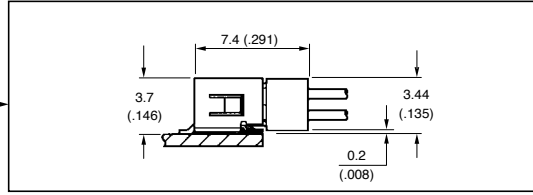
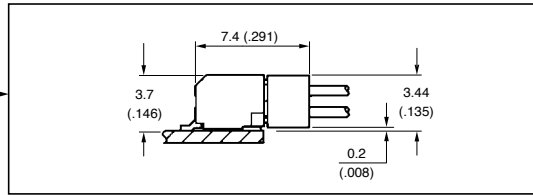
FPC Right Angle, Shielded  
21, 31 Sizes  
FI-W\*MA1



Straight, Shielded  
21, 31 Sizes  
FI-TWE\*P\*-VFE



FPC Straight, Shielded  
21, 31 Sizes  
FI-WE\*MVA1

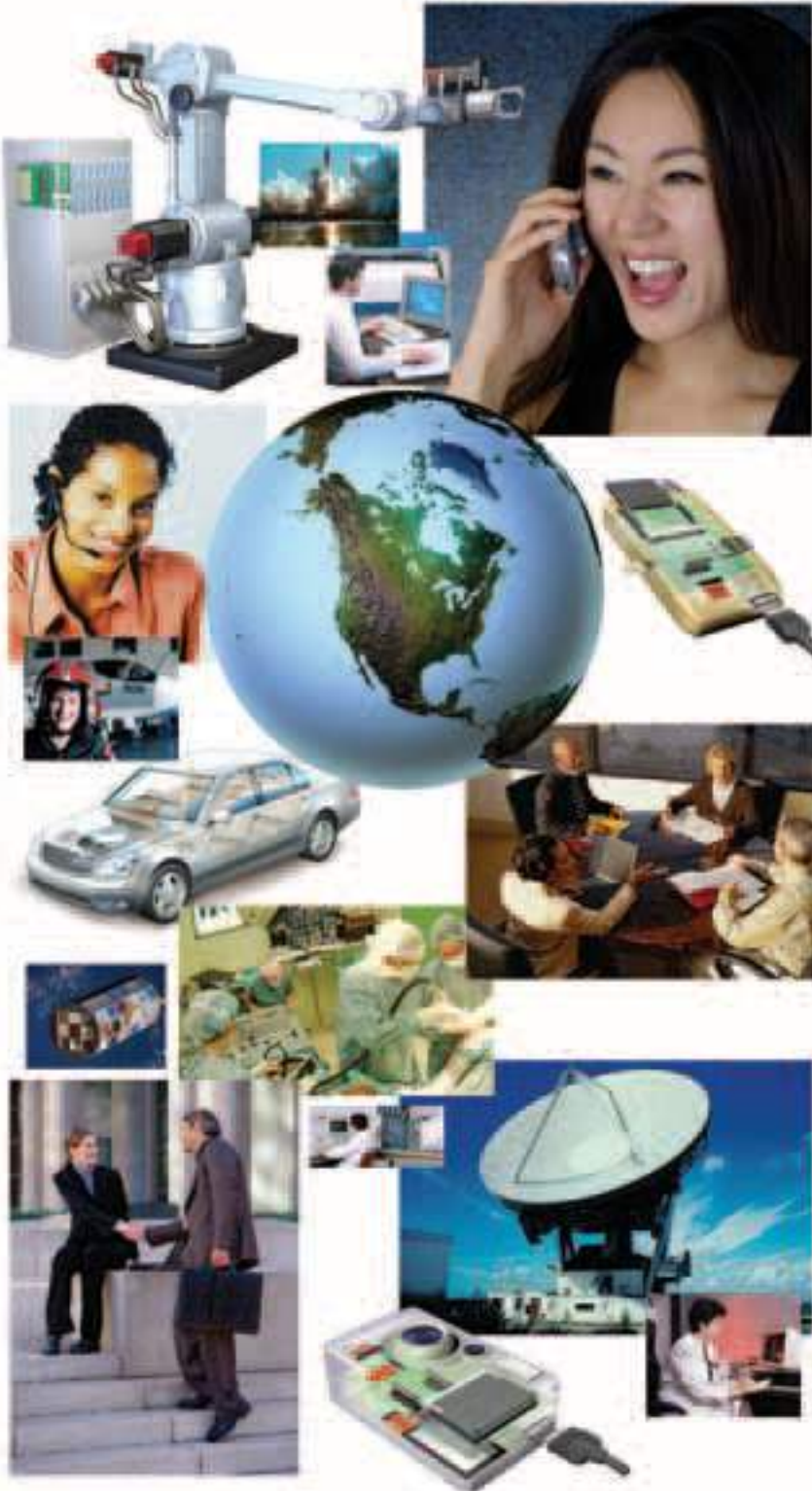




Technology to Inspire Innovation

# JAE

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



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