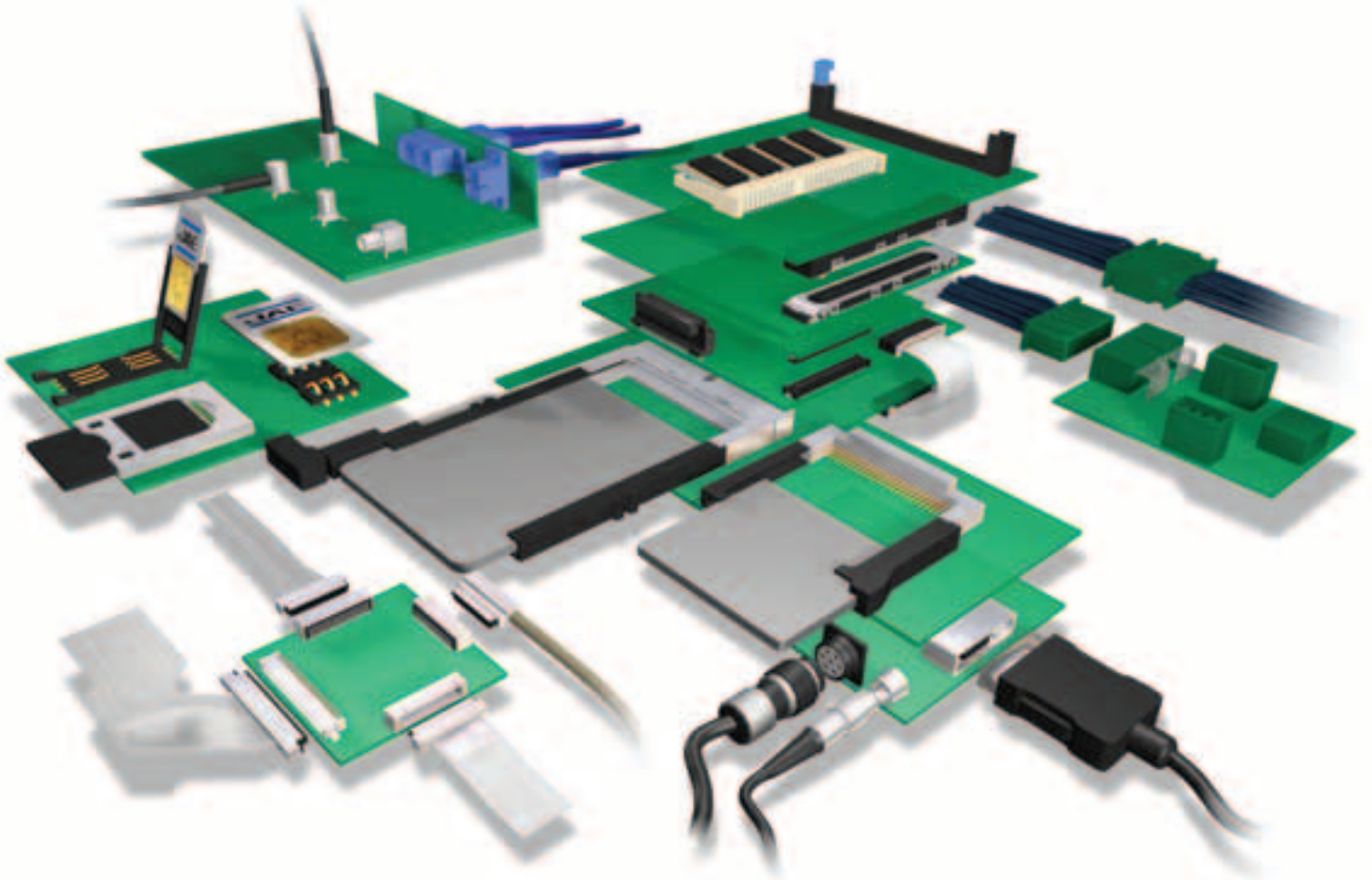


Technology to Inspire Innovation

# ***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.

## Table of Contents

Product Series	Contact Spacing	Pages
<b>SOCKETS/MEMORY PRODUCTS</b>		
PCMCIA		
JC22.....	1.27mm (.050").....	5
COMPACT FLASH		
JC26C2.....	1.27mm (.050").....	6 - 7
JC26E.....	1.27mm (.050").....	8
JC26F.....	1.27mm (.050").....	9
PCI EXPRESS MINI CARD		
MM60.....	0.8mm (.031").....	10
EXPRESSCARD		
PX10/11.....	1.0mm (.039").....	11 - 12
PX20/22.....	1.0mm (.039") / 0.635mm (.025").....	13 - 14
SMART/SIM CARD		
SF2.....	2.54mm (.100").....	15
SF3.....	2.54mm (.100").....	16
SF6.....	2.54mm (.100").....	17
SF7.....	2.54mm (.100").....	18
SF7 (Slim).....	2.54mm (.100").....	19
SF9.....	2.54mm (.100").....	20
SECURE DIGITAL CARD		
SG5.....	2.50mm (.098").....	21
MINI SECURE DIGITAL CARD (SD)		
ST4.....	1.1mm (.043").....	22
SC1.....	2.50mm (.098").....	23
MICRO SD/TRANSFLASH™		
ST1.....	1.1mm (.043").....	24
ST2.....	1.1mm (.043").....	25

## **BOARD-TO-BOARD CONNECTOR PRODUCTS**

BOARD-TO-BOARD		
AA03.....	0.40mm (.020").....	26
WA6.....	0.40mm (.020").....	27
WH1.....	0.40mm (.020").....	28
AA01A.....	0.50mm (.020").....	29
IL-312.....	0.50mm (.020").....	30
WR.....	0.50mm (.020").....	31 - 32
WB3.....	0.50mm (.020").....	33
IL-WX.....	0.80mm (.031").....	34
KX14/15.....	0.80mm (.031").....	35 - 36
PM1.....	0.80mm (.031").....	37
WM1.....	1.00mm (.039").....	38
WM2.....	1.00mm (.039").....	39
TX24/TX25.....	1.27mm (.050").....	40

## Table of Contents

Product Series	Contact Spacing	Pages
<b>BOARD-TO-BOARD CONNECTOR PRODUCTS</b>		
WIRE-TO-BOARD		
PCB-TO-FPC/FFC		
FB3.....	0.30mm (.012").....	41
FB5.....	0.30mm (.012").....	42
FB6.....	0.30mm (.012").....	43
FF02.....	0.30mm (.012").....	44
FF02S.....	0.30mm (.012").....	45
FB8.....	0.30mm (.012").....	46
FA5.....	0.50mm (.020").....	47
FF03.....	0.50mm (.020").....	48
IL-FPR.....	0.50mm (.020").....	49
PCB-TO-CABLE/FPC		
FI-J.....	0.40mm (.016").....	50 - 51
FI-R.....	0.50mm (.020").....	52 - 53
FI-X.....	1.00mm (.039").....	54 - 55
FI.....	1.25mm (.049").....	56 - 58
PCB-TO-CABLE		
DX2/3.....	0.80mm (.031").....	59
FI-E.....	1.00mm (.039").....	60 - 61
CN10.....		62 - 63
CV10.....		64
IL-Z.....	1.25mm (.049").....	65 - 66
IL-S.....	2.00mm (.079").....	67 - 68
LY.....	2.00mm (.079").....	69
KD10/20.....	2.00mm (.079").....	70
IL-G.....	2.50mm (.098").....	71
<b>INPUT/OUTPUT CONNECTOR PRODUCTS</b>		
PCB-TO-CABLE		
DD1.....	0.50mm (.020").....	72 - 73
DD2.....	0.50mm (.020").....	74 - 75
DG1.....	0.50mm (.020").....	76
RA1.....	0.50mm (.020").....	77
RC1.....	0.50mm (.020").....	78
DA1.....	0.60mm (.024").....	79
DE1.....	1.27mm (.050").....	80
TX20A.....	1.27mm (.050").....	81
DV2.....	1.905mm (.075").....	82 - 84
CIRCULAR		
JN1.....		85 - 86
JN2.....		87 - 88
JB5.....		89

## Table of Contents

<i>Product Series</i>	<i>Contact Spacing</i>	<i>Pages</i>
 <b>INPUT/OUTPUT CONNECTOR PRODUCTS</b>		
<b>CIRCULAR</b>		
JL04V .....		90 - 91
JL05 .....		92 - 93
JB1 .....		94 - 95
SRCN .....		96 - 97
N/MS .....		98 - 99
 <b>FIBER OPTIC PRODUCTS</b>		
FO-FC .....		100
FO-EX .....		101
 <b>AUTOMOTIVE CONNECTOR PRODUCTS</b>		
<b>PCB-TO-CABLE</b>		
MX34 .....	1.1mm (.043") .....	102
MX7 .....	2.30mm (.091") .....	103
IL-AG7 .....	2.50mm (.098") .....	104
MX17 .....	2.50mm (.098") .....	105 - 106
MX23A .....	2.50mm (.098") .....	107 - 108
MX10 .....	2.50mm (.098") .....	109
MX5 .....	3.00mm (.118") .....	110
 <b>PCB-TO-CABLE/CABLE-TO-CABLE</b>		
IL-AG5 .....	2.50mm (.098") .....	111
IL-AG6 .....	2.50mm (.098") .....	112
MX9 .....	3.50mm (.138") .....	113
MX25 .....	6.7mm (2.64") .....	114
MX36 .....	2.50mm (.098") .....	115
 <b>CABLE-TO-CABLE</b>		
IL-AG9 .....	2.50mm (.098") .....	116 - 118
MX19 .....	2.50mm (.098") .....	119

- 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.

# FA5 SERIES CONNECTORS

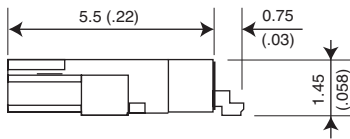
## 0.50mm (.020") Contact Spacing, pitch FFC/FPC Connector (Bottom Contact)



### FEATURES

- ZIF structure for easy insertion and removal of FPC
- Easy handling thanks to rotation of actuator
- Hold down structure with winding and strain protection
- Two mounting types: standard and bottom (embedded) type
- Connector mounting height 1.45mm (.057"), low-profile structure

Connector Profile (Ref.)



Dimensions in mm (inches).

.....

FA5 Series connectors are 0.50mm (.020") pitch, high density, and low-profile for PCB-to-FPC applications. The design utilizes a slider for easy, yet reliable, engagement of the flex cable to the contacts. They are ideally used in audio/visual products, personal computers, PDA's, LCD's, and mobile phones.

### GENERAL SPECIFICATIONS

Number of Contacts	Top Mount: 8, 10, 15, 16, 18, 20, 22, 24, 26, 30, 36, 40, 45, 50 Bottom Mount (Embedded Type): 6, 8, 10, 16, 20, 30, 36, 40, 45, 50
Contact Spacing	0.50mm (.020")
Current Rating	0.8 Amp per contact
Dielectric Withstanding Voltage	250 VAC r.m.s. (for one minute)
Insulation Resistance	100 megohms min.
Contact Resistance	40 milliohms max.
Operating Temperature	-40°C to +85°C
Contact Life Durability	20 Cycles
Applicable FPC	0.50mm (.020") pitch, 0.3 ±0.05mm (.012" ± .002") thickness with lining

### MATERIALS AND FINISHES

Components	Materials/Finishes
Base Insulator	Glass filled LCP (UL94V-0, Black)
Actuator	Glass filled Nylon (UL94V-0, White)
Contact	Copper Alloy/ Tin Plated
Hold Down	Copper Alloy/ Tin Plated

### ORDERING INFORMATION

	FA5	*	***	H	P	*	R3000
Series							
Mounting Type							
S – Standard							
B – Bottom mount							
No. of Contacts							
Termination							
H – Angle type with H/D							
Contact Finish Code							
P – Gold/Tin-Copper plating (10 position)							
Hold Down							
1 - 0.8mm (.031")							
2 - 0.9mm (.035")							
Tape and Reel							
R3000 – 3,000 pieces/reel							

Technology to Inspire Innovation

# JAE

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



## **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

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [FFC & FPC Connectors](#) category:*

*Click to view products by [JAE](#) manufacturer:*

Other Similar products are found below :

[K-FC20](#) [FH29B-80S-0.2SHW\(99\)](#) [FPH-2022G](#) [AYF332735](#) [52610-1075](#) [52610-1275](#) [52610-1934](#) [501864-3091-TR225](#) [086222026001800](#)  
[52610-0675](#) [62684-36210E9ALF](#) [52746-1671-TR250](#) [10051922-2810EHLF](#) [6-520415-9](#) [SFV6R-1STE9HLF](#) [XF3M-2915-1B-R100](#)  
[1658549-1](#) [46214008010800](#) [AYF534065TA](#) [AYF351525](#) [086212040340800+](#) [AYF530365TA](#) [67000-014LF](#) [67000-004LF](#)  
[006207341915000+](#) [DS1020-19RT1D](#) [67000-003LF](#) [67000-011LF](#) [67000-016LF](#) [HFW14R-2STE9LF](#) [SFV32R-2STBE9HLF](#) [SFW12R-](#)  
[5STE9LF](#) [SFW18R-1STAE9LF](#) [SFW4R-5STE9LF](#) [52807-0430](#) [046283021002868+](#) [THD1015-8CL-SN](#) [67000-006LF](#) [502250-8027](#)  
[104267-9617](#) [66987-011LF](#) [AYF362535](#) [F0501-T-50-20T-R](#) [HFW8S-2STAE1HLF](#) [67000-008LF](#) [67000-012LF](#) [ECC576069EU](#) [F1002-B-](#)  
[20-20T-R](#) [HFW15S-2STAE1HLF](#) [0781271110](#)