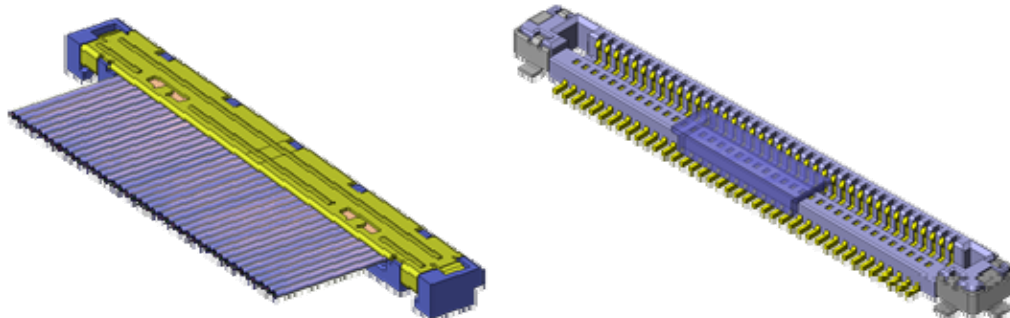




## FI-J Series



### Outline

Thin wire coaxial connector compatible to AWG #42, 44 cables for small compact devices has been developed. Space saving on board and small enough to passed through hinge after harness assembly.

### Features

- The smallest board mounting space in the industry (compared with other 0.4mm pitch product) with 2.5mm depth, 21.7mm pitch direction (for 40 pins). 1.58mm height.
- Ensures 0.4mm effective contact length with stable connection.
- Highly reliable structure by supporting the contact points with contacts
- Ensures low contact resistance with Au plated ground contact points between plug and receptacle with stable connection.
- Mis-mating prevention structure
- Compatible with AWG #42 and #44 cables
- Receptacle side: Available on embossed tape for automatic mounting and ensures high mounting performance with adsorption cap.
- Receptacle side: Solder migration prevention structure with Ni barrier on receptacle plug.
- Plug side: Small hinge can be passed through after harness assembly.

## General Specifications

- No. of contacts : 20, 25, 30, 35, 40 pos.
- Pitch: 0.4mm
- Operating temperature:  
-40 Deg. C to +85 Deg. C
- Contact resistance: 40m ohm max.
- Life time: 30 times
- Rated current: AC, DC each 0.3A per pos.
- Rated voltage: AC, DC each 50V per pos.
- Insulation resistance: 100M ohm min.
- Dielectric withstanding voltage :  
AC 250Vr. m.s per minute
- Applicable cable: AWG#42 to 44

## Materials and Finishes

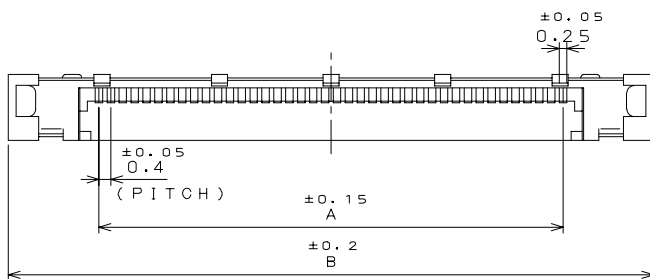
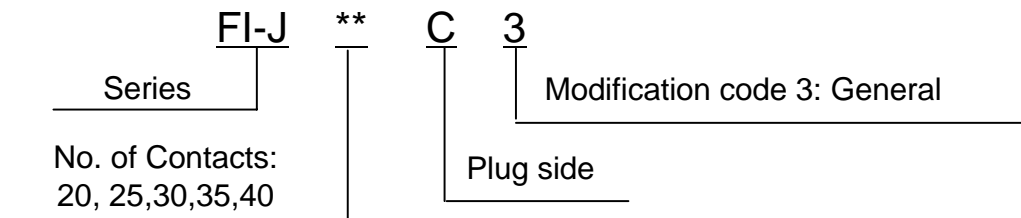
Components	Materials/ Finishes
<b>Receptacle(FI-J**S-VF15N)</b>	
Contact	Copper alloy/ Contact portion, Terminal portion: Au flash plating over Ni
Hold down	Copper alloy/ Contact portion, Terminal portion: Au flash plating over Ni
Insulator	Heat resistant plastic UL94V-0
Adsorption insulator	Heat resistant plastic UL94V-0
<b>Plug(FI-J**C3/ FI-J**C2-SH-D)</b>	
Contact	Copper alloy/ Contact portion, Terminal portion: Au flash plating over Ni
Insulator	Heat resistant plastic UL94V-0
Shell	Stainless steel/ Au plating over Ni



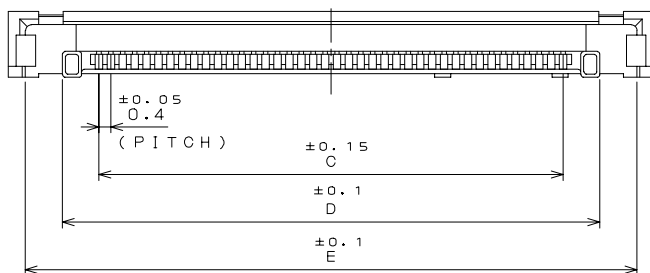
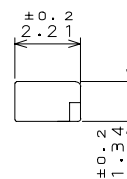
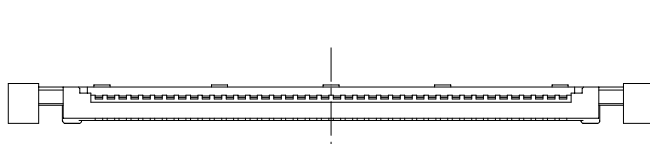


Ordering Information

Plug side: Insulator (SJ104706)



Unit: mm



Dimension chart

No. OF CONTACTS	20	25	30	35	40
A	7.6	9.6	11.6	13.6	15.6
B	13.7	15.7	17.7	19.7	21.7
C	7.6	9.6	11.6	13.6	15.6
D	10.06	12.06	14.06	16.06	18.06
E	12.56	14.56	16.56	18.56	20.56



Related Document
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- Product Specification Chart (JACS): JACS-10217
- Harness Assembly Handling Instructions (JAHL):  
JAHL-10217-04
- Connector Handling Instructions (JAHL):  
JAHL-10217-20
- Connector Insertion/ Extraction Tools:  
Drawing No. : SJ713182  
Part Number: SC-FIJ-1SJ  
Handling Instructions: T713182

## Japan Aviation Electronics Industry, Limited

Product Marketing Division

Aobadai Building, 3-1-19, Aobadai, Meguro-ku, Tokyo 153-8539

Phone: +81-3-3780-2787 FAX: +81-3-3780-2946

**Notice:** Products shown in this leaflet are made for the applications listed below. 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, telecommunication devices (terminals, mobile devices), AV devices, household applications, FA devices, etc.