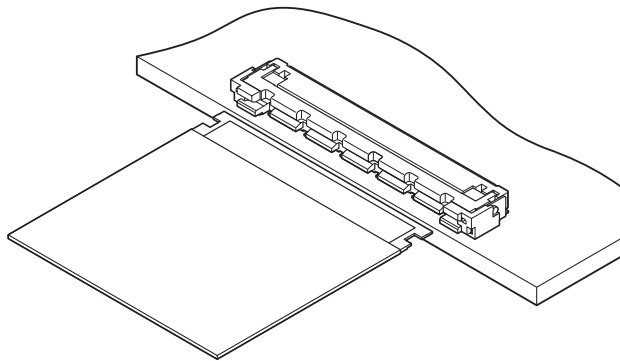




FCH CONNECTOR

0.5mm pitch/Connectors for FFC



This is 0.5 mm pitch connector for FPC which has the exclusive GND contact and enables high-speed transmission with connecting to the impedance controlled FPC. Adopting the auto lock mechanism that makes lock by performing the one action of snap-in-work, the workability improvement is realized.

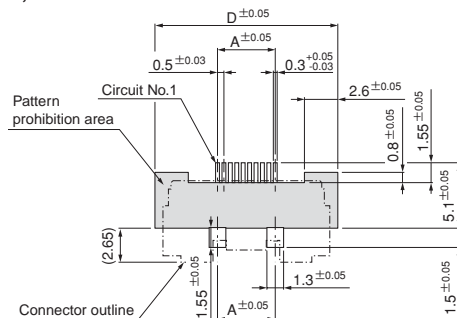
- Auto lock mechanism with secure and good workability
 - EMI countermeasure
 - Compatibility with the VESA standard connector
 - Correspond to V-by-One® HS which is one of the next-generation interface for flat-screen TV
- V-by-One is registered trademark of THine Electronics, Inc.

Specifications

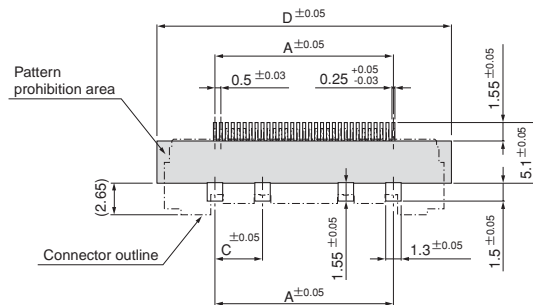
- Current rating: 0.3 A AC, DC
 - Voltage rating: 50 V AC, DC
 - Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
 - Contact resistance: Initial value/ 60 mΩ max.
After environmental tests/ 120 mΩ max.
 - Insulation resistance: 500 MΩ min.
 - Withstanding voltage: 200 VAC/minute
 - Applicable FFC: Conductor pitch/ 0.5 mm
Conductor width/ 0.32 mm
Mating part thickness/ 0.33^{+0.03}_{-0.01} mm
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.
* Compliant with RoHS.

PC board layout and Assembly layout

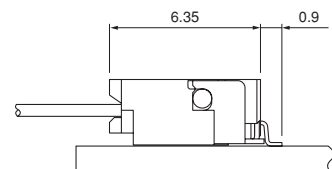
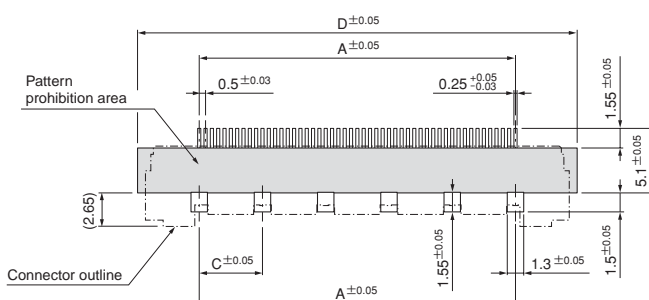
<10, 15, 20 circuits>



<31circuits>



<41, 51 circuits>



Circuits	Dimensions (mm)		
	A	C	D
10	4.5	—	14.25
15	7.0	—	16.75
20	9.5	—	19.25
31	15.0	4.0	24.75
41	20.0	4.0	29.75
51	25.0	5.0	34.75

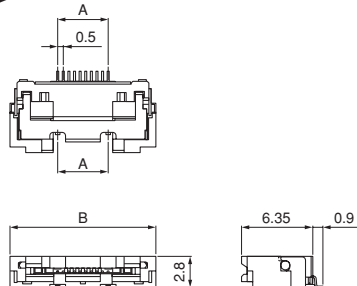
Note: 1. The above figure is the figure viewed from the connector mounting side.

2. Tolerances for the centers of pattern on PCB is ± 0.03 mm, and shall be not cumulative more than ± 0.05 mm.
The dimensions above should serve as a guideline. Contact JST for details.

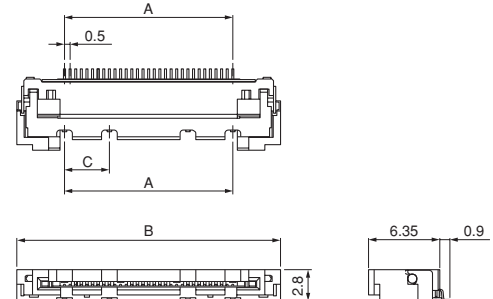
FCH CONNECTOR

Connector

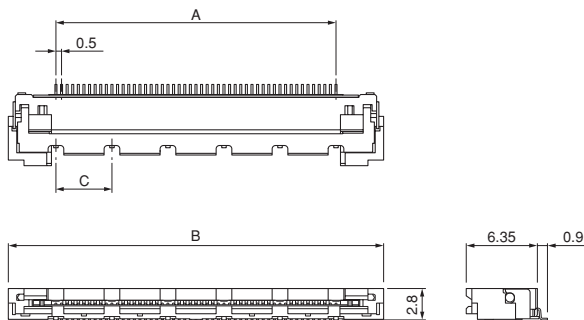
<10, 15, 20 circuits>



<31 circuits>



<41, 51 circuits>



Circuits	Model No.	Dimensions (mm)			Q'ty/ reel
		A	B	C	
10	10FCH-RSM1-GA-TB	4.5	13.0	—	2,000
15	15FCH-RSM1-GA-TB	7.0	15.5	—	2,000
20	20FCH-RSM1-GA-TB	9.5	18.0	—	2,000
31	31FCH-RSM1-GA-TB	15.0	23.5	4.0	2,000
41	41FCH-RSM1-GA-TB	20.0	28.5	4.0	2,000
51	51FCH-RSM1-GA-TB	25.0	33.5	5.0	2,000

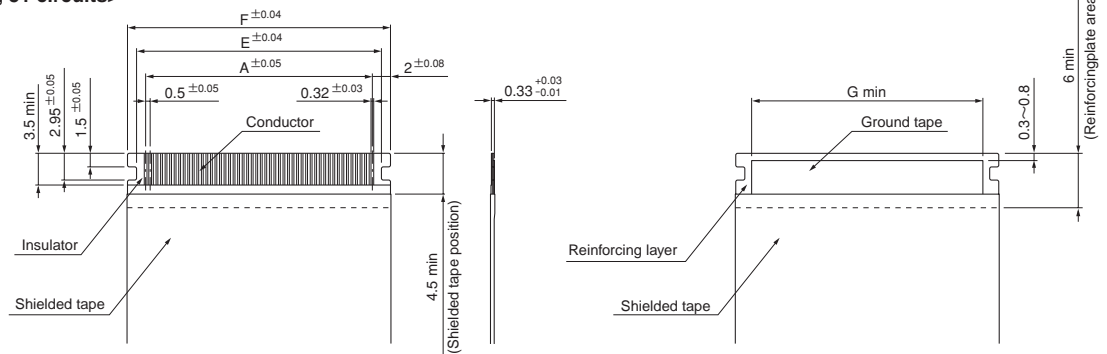
Material and Finish

Signal contact: Copper alloy, nickel-undercoated, selective gold-plated
Ground contact: Copper alloy, tin-plated
Socket housing/Cover housing: Heat resisting resin, UL94V-0, black

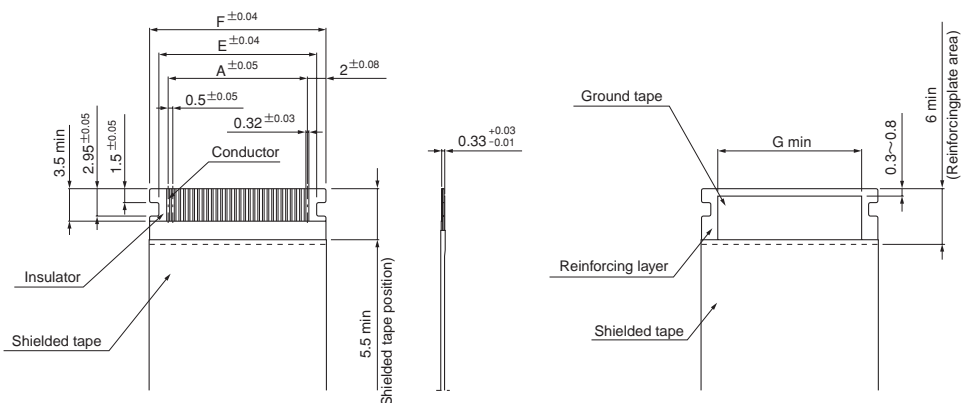
RoHS compliance This product displays (LF)(SN) on a label.
Note: The products listed above are supplied on embossed-tape.

Lead section dimensions of FFC

<10, 15, 20, 41, 51 circuits>



<31 circuits>



Circuits	Dimensions (mm)			
	A	E	F	G
10	4.5	6.5	8.5	5.0
15	7.0	9.0	11.0	7.5
20	9.5	11.5	13.5	10.0
31	15.0	17.0	19.0	15.5
41	20.0	22.0	24.0	20.5
51	25.0	27.0	29.0	25.5

Note: The tolerance of FFC conductor pitch should be ± 0.05 mm and non-cumulative.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

JST:

[51FCH-RSM1-GA-TB\(LF\)\(SN\)](#) [15FCH-RSM1-GA-TB\(LF\)\(SN\)](#) [31FCH-RSM1-GA-TB\(LF\)\(SN\)](#) [41FCH-RSM1-GA-TB\(LF\)\(SN\)](#) [10FCH-RSM1-GA-TB\(LF\)\(SN\)](#) [20FCH-RSM1-GA-TB\(LF\)\(SN\)](#)