



Title of Document:	<b>HANDLING MANUAL</b>	Issue No. CHM-1-157	Rev. 4
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This handling manual describes the handling method and the handling precautions of FDZ connector to help you understand the function and the performance of this connector.

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## 1. Model Number and Each Part Name

### 1-1 Model number

Product name		Model number
FDZ connector	Top entry type	*FDZ-BT(S) (LF)(SN)
	Side entry type	*FDZ-ST(S) (LF)(SN)

Note<sub>1</sub>: Figures in an asterisk denote the circuit number.

“(S)” denotes the slider-locking type.

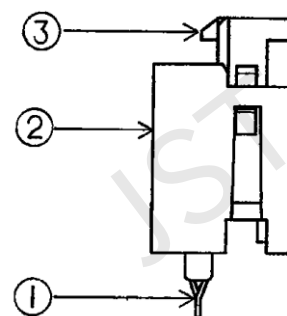
Note<sub>2</sub>: “(LF)(SN)” denotes lead-free product.

It is displayed on the product label.

### 1-2 Each part name

This connector consists of three components; the contact, the housing and the slider. Understand each part name and function before handling.

- ① Contact  
It connects electrically a PC board with the leads.
- ② Housing  
It electrically insulates and fixes the contacts.
- ③ Slider  
The contact electrically connects the leads by operating the slider.



## 2. Storage

### 2-1 Storing the connectors

Recommended storage condition: Temperature: 5 – 35 °C, Relative humidity 60 % or less  
(Under packaging like the state of JST shipment)

Keep off direct sunlight, places exposing to such corrosive gas as industrial gas (generate from a stove and whatnot) and ammonia gas (generate from a toilet and whatnot) and dusty place.  
Also, keep the storage room from condensation.

Note that the resin molding part may break due to transportation and handling, such as processing and mating, under dry or low temperature condition.

After unpacking, return the products in the original package to store.

### 2-2 Storing the processed products

Not leaving the crimped contact to stand in a place exposed to high humidity and direct sunshine, and not placing them directly on the ground. Keep them in a clean storage room.

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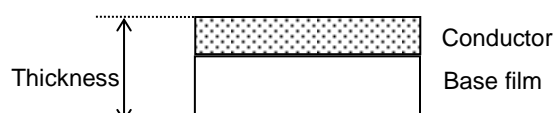
### 3. Applicable Leads

Silver paste carbon-printed lead

Item	Rated Value		
Conductor material	Silver-pasted carbon insulation (Note <sub>3</sub> )		
Conductor pitch	2.54mm		
Total mating part thickness	Recommended thickness:	125μm	(Note <sub>4</sub> )
	Tolerance:	75 to 200μm	

Note<sub>3</sub>: The contact of FDZ connector comes in contact with conductors with a relatively high contact Pressure. Accordingly, select conductors with hard resin material (more than 4 H).

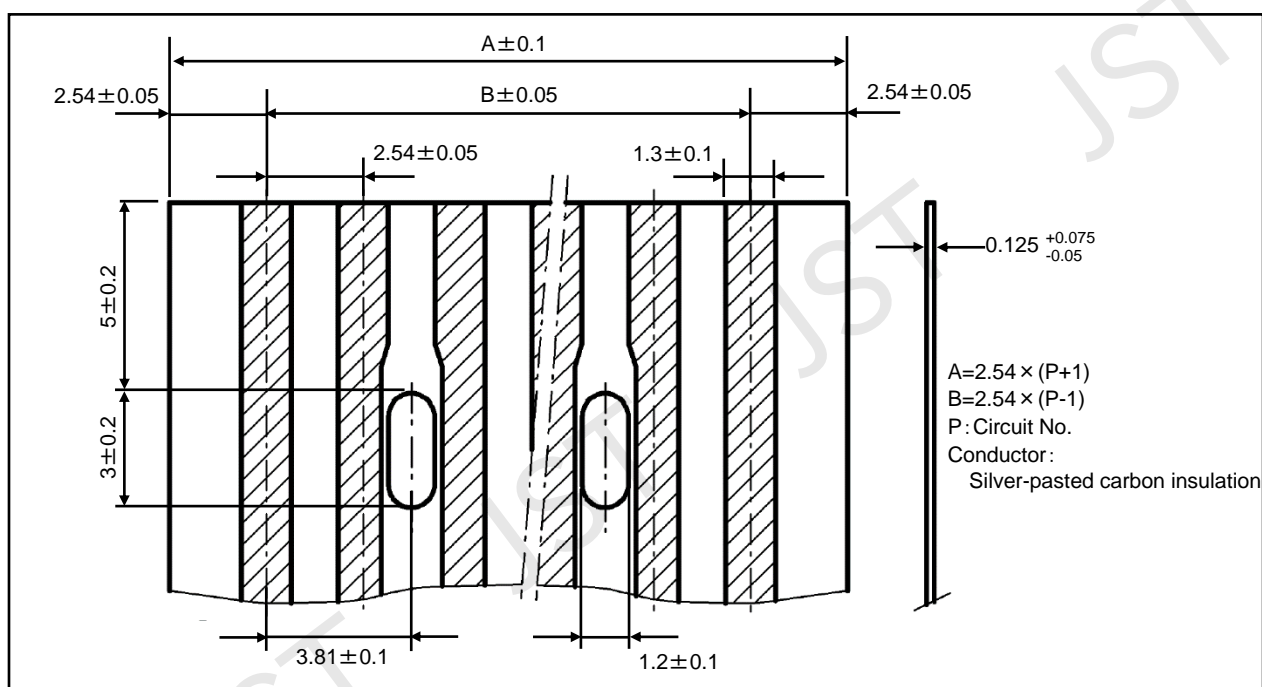
Note<sub>4</sub>: The thickness refers to the combined thickness of the base film and conductors.



Note<sub>5</sub>: The dimensions of a lead greatly affect the contacting reliability with the connector.

Note<sub>6</sub>: Conform the dimensions of leads with those of applicable ones described in drawing.

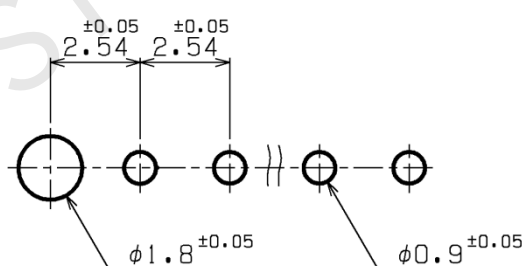
Note<sub>7</sub>: Confirm the applicability of the connector with the leads used, before use. The lead, which applicability is not confirmed, might not be able to guarantee the performance. In case of necessity, the performance check test shall be conducted.



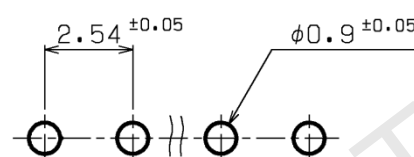
### 4. Applicable PC Boards

PC board hole dimension

Top entry type



Side entry type



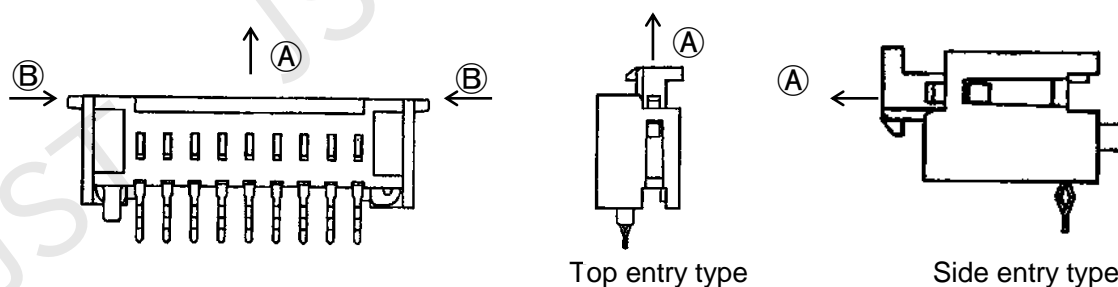
## 5. Handling Methods and Precautions

### 5-1 Inserting operation

Do the insertion work according to the following procedure, referring to the below.

- ① Hold the both ends (protrusions) of the slider, and push them in the direction B with an even load. Next, pull them out straight in the direction A to release the slider.

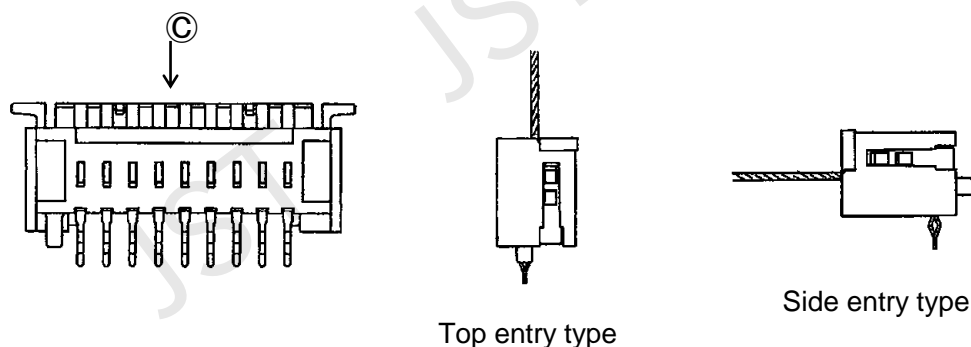
Note<sub>8</sub>: The lock is released by pulling the slider about 1.0mm in the direction A.  
Avoid pulling out the slider with applying an excessive load or pulling only one side of the slider out. (Because the slider may have breakage)



- ② Insert the lead into the slider insertion hole along the mating axis until it strikes against the backmost.



- ③ Push the slider top surface (an uneven part, C) in to lock the slider.



### 5-2 Withdrawing operation

Pull the lead out after the slider is released as shown in ① above.

Note<sub>9</sub>: Be sure to conduct the lead insertion and withdrawal operation with the slider unlocked.  
The lead insertion and withdrawal with the slider locked can sometimes damage the contact, the lead contact area, and the lead holes for hooks.

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### 5-3 Others

- ① Be sure to keep the connector in the box, not leaving the connectors taken out of the carton box, because external factors may bring about the deformation, the discoloration, and adhesion of foreign matters.
- ② Do not stain the connectors with household goods such as oils, detergent, seasoning and fruit juice to avoid electrical discontinuity or poor soldering. If stained, never use the stained connector.
- ③ Never spray fuming insecticide such as earth red and varsan in the place where the connector is stored.  
Adhesion of such fuming insecticide may lead to electrical discontinuity or poor soldering. (These precautions are specifically written in the handling manual for insecticide.)  
Additionally, spraying even non-fuming insecticide directly to the connector may cause same defects. In case of using insecticide, give attention not to apply it to the connector by taking the connector outdoor or put it in the carton box and a cover such as plastic bags is put on the box.
- ④ Do not disassemble the connector or insert inapplicable wire or other than wires, because electrical discontinuity may be caused.