

This connector is small and thin and requires delicate and careful handling. Read through the instructions shown below and handle the connector properly. Each values indicating here are for reference and may differ from standard value.

### [INSTRUCTIONS FOR MOUNTING ON THE BOARD]

## ♦Warp of Board

Minimize warp of the board as much as possible. Lead co-planarity including reinforced metal fittings is 0.1 mm or less. Too much warp of the board may result in a soldering failure.

#### ♦Load to Connector

Do not apply a force of 1 N or more to the connector before mounting it on the board. Otherwise, the connector may be broken.

Do not insert the FPC or operate the connector before mounting it.

#### ♦Lord to Board

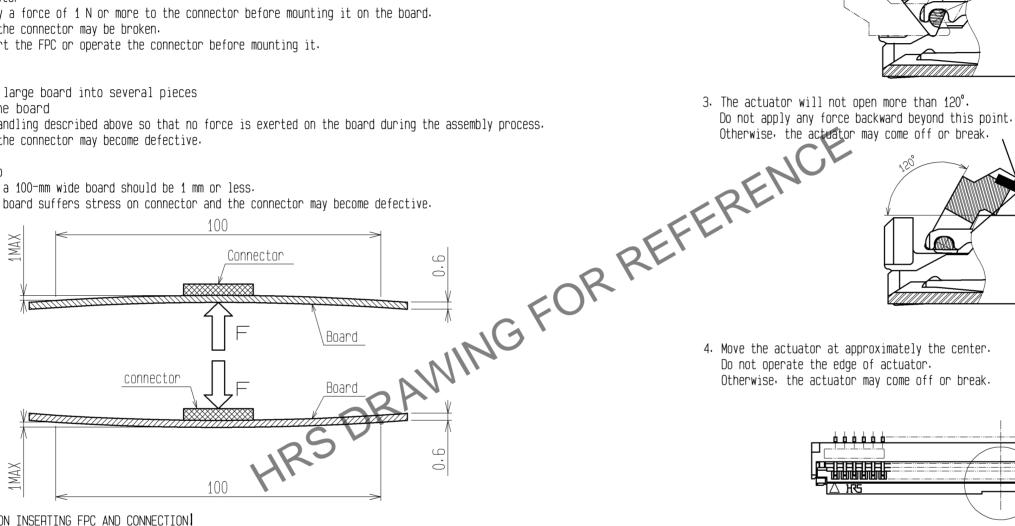
- ·Splitting a large board into several pieces
- ·Screwing the board

Avoid the handling described above so that no force is exerted on the board during the assembly process. Otherwise, the connector may become defective.

#### ♦Amount of Warp

The warp of a 100-mm wide board should be 1 mm or less.

The warp of board suffers stress on connector and the connector may become defective.

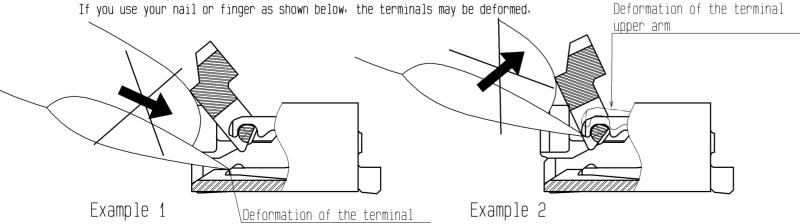


### INSTRUCTIONS ON INSERTING FPC AND CONNECTION!

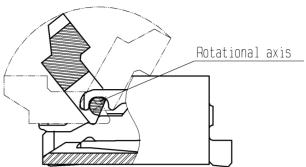
#### ♦ Use of the Actuator

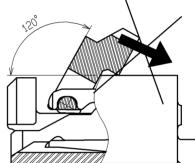
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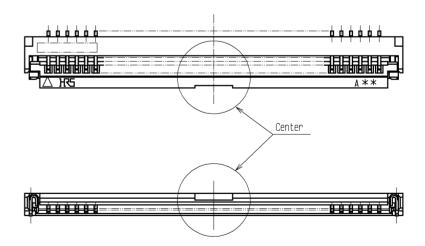
1. Be very careful not to apply excessive force when releasing the actuator in the initial position (with no FPC inserted).



2. The actuator rotates around the rotational axis as shown below. Rotate the actuator.



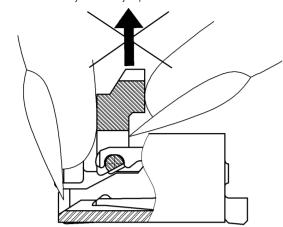


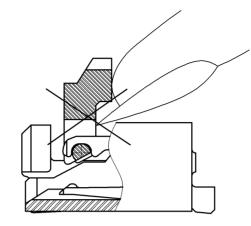


<INSTRUCTION MANUAL 1>

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PART FH33M-16S-0. 4SHC	10)
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5. Do not pinch or pick the actuator to lift it as shown below. Otherwise, it may break. (Do not carry out any operation other than rotating the actuator as shown in 2 above.)





#### ♦Direction of Contacts

#### ♦Inserting the FPC

1. Insert the FPC horizontally along the surface and at a right angle to the connector.

2. Do not insert the FPC diagonally from above.

Release the pactuator to remove the FPC.

On not insert the FPC diagonally from above. If the FPC is inserted at a slant (incorrectly) as shown below in the FPC insertion process the FPC may bend and patterns may break or the FPC may not insert completely.

Solution the stage of the stage of the layout in order to have the FPC insertion process.

Solution to insert the FPC may not insert completely.

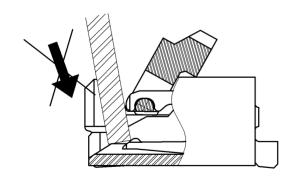
Solution to insert the FPC may not insert completely.

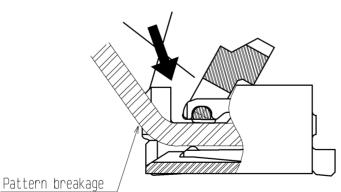
Solution to insert in sertion space in the stage of the layout in order to have the proper layout of parts.

Solution to insert FPC correctly all the way are the proper layout of parts.

Solution to insert FPC maximum to insert FPC correctly all the way are the proper layout of parts. \*Keep a sufficient FPC insertion space in the stage of the layout in order to avoid incorrect FPC insertion.

\*Make adjustments with the FPC manufacturer for FPC bending perfomance and wire breakage.





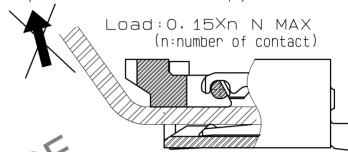
# ◆Checking the Locking Condition

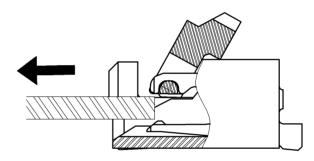
In the locked condition, make sure that the actuator is horizontal on the board surface. Do not apply excessive force to it near the  $0^{\circ}$  position of the actuator. Otherwise, the terminals may be deformed. (Allowable force: 1 N or less)

### INSTRUCTIONS ON EPC LAYOUT AFTER CONNECTION!

### ♦Load to EPC

Be very careful not to apply any force to the FPC after inserting it. Otherwise, the connector may become unlocked or the FPC may break. Fix the FPC, in particular, when loads are applied to it continuously. Design the FPC layout with care not to bend it sharply near the insertion opening.





Follow the instructions shown below when soldering the connector manually during repair work, etc.

- 1. Do not perform reflow soldering or manual soldering with the FPC inserted into the connector.
- 2. Do not heat the connector excessively. Be very careful not to let the soldering iron contact any parts other than connector leads. Otherwise, the connector may be deformed or melt.
- 3. Do not use excessive solder (or flux).

If excessive solder (or flux) is used on the terminals, solder or flux may adhere to the contacts or rotating parts of the actuator, resulting in poor contact or a rotation failure of the actuator.

Supplying excessive solder to the reinforcing bracket may hinder actuator rotation. resulting in breakage of the connector.

# <INSTRUCTION MANUAL 2>

HS.	DRAWING NO.	EDC3-156977-01		
	PART NO.	FH33M-16S-0.4SH(1	0)	
	CODE NO.	CL580-1319-7-10		4/4

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