

INSERTION OF THE FPC AND ROCK! This connector requires careful handling. Follow recommendations given below. ◆Use of the actuator The numerical values shown are not part of the connector specification.

## [INSTRUCTIONS FOR MOUNTING ON THE BOARD]

### ♦Warp of Board

Minimize warp of the board as much as possible.

Lead co-planarity is 0.1 mm or less.

Too much warp of the board may result in a soldering failure.

#### ♦Flexible board design

Please make sure to put a stiffener on the backside of the flexible board. We recommend a glass epoxy material with the thickness of 0.3mm MIN

#### ♦Load to Connector

Do not add 1N or greater external force when unreel or pick and place the connector etc. or it may get broken.

In addition, do not insert the FPC or operate the connector before mounting it

### [INSTRUCTIONS FOR PCB HANDLING AFTER MOUNTING THE CONNECTOR]

#### ♦Load to Board

·Splitting a large board into several pieces

·Screwing the board

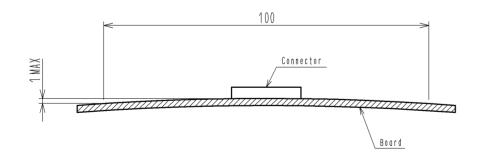
Avoid the handling described above so that no force is exerted on the board during the assembly process. Otherwise, the connector may become defective.

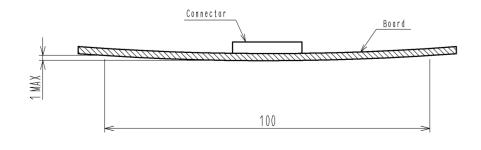
#### ♦Amount of Warp

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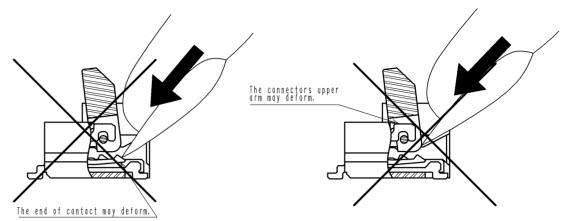
The warp of a 100 mm wide board should be 1 mm or less.

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





When using fingernails to use the actuator exercise caution NOT to damage or deform the contacts.

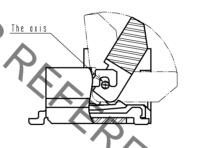


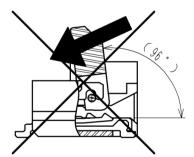
The actuator is designed to rotate on its axis as shown in the figure below. Make sure to use rotating motion when operating it.

The actuator is designed to open 96 degrees max.

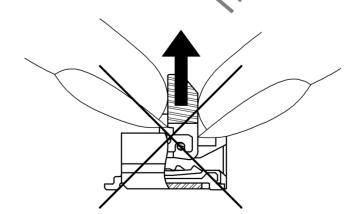
Do not push it back further than this.

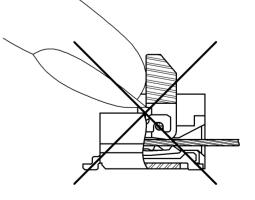
This may deform contacts, break-off the actuator or damage the connector.





Operate the actuator only as instructed. Do not attempt to dislodge the open actuator as shown below





<ADDITIONAL RECOMMENDATIONS 1>

ЖS	DRAWING NO.	EDC3-340432-02	
	PART NO.	FH49F-96S-0.4SHW	
	CODE NO.	CL580-3201-8-00	$\triangle$

dimension)

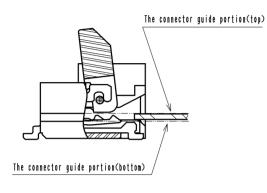
0.3 about 0.3 (nominal Do not insert the FPC off the specified angle for full FPC insertion, as this may cause contact deformation and/or FPC damage by FPC end nooking the contacts.

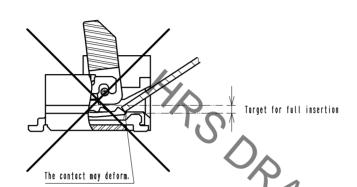
Also, this may cause pattern breakage by FPC bent and/or conduction failure by insufficient insertion.

%Keep a sufficient FPC insertion space in the stage of the layout in order to avoid incorrect FPC insertion.

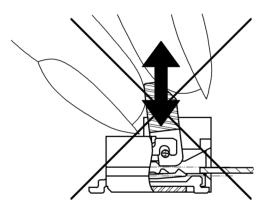
Besides, it is not difficult to insert FPC correctly all the way to the end. Design the proper layout of parts.

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





Do not apply force to the actuator during FPC full insertion procedure. FPC insertion could become stiff and/or difficult for wiping.



## [INSTRUCTIONS ON FPC LAYOUT AFTER CONNECTION]

◆ Load to FPC

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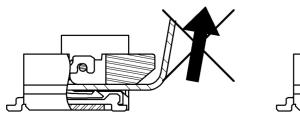
Be very careful not to apply any force to the FPC after inserting it.

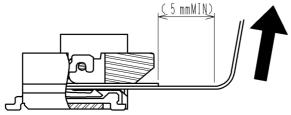
Otherwise, the connector may become unlocked or the FPC may break.

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.

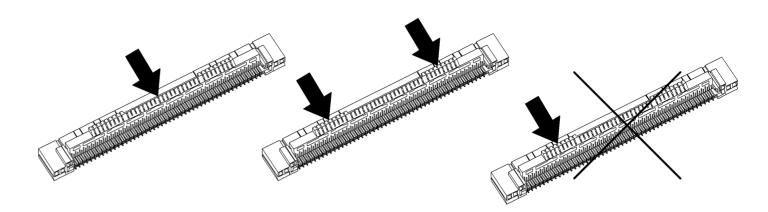
Please take 5mm MIN from the reinforcement taping.





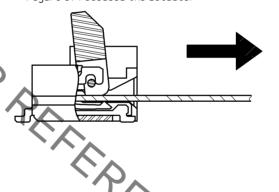
# [Instructions on removing FPC]

♦ Do not apply forces only at one end(right figure below) as this may cause damage to the actuator.

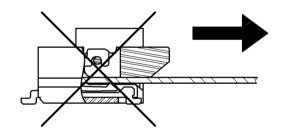


◆ Release the actuator to remove the FPC.

Figure of released the actuator



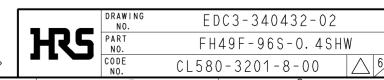




(Other recommendations)

#### ◆Manual soldering

- 1. Do not perform soldering operations with the FPC inserted in the connector.
- 2. The soldering iron must contact only the terminals.
- Do not touch any other part of the connector with the soldering iron.
- 3. Do not apply excessive solder (or flux).
  - If excessive solder (or flux) is applied on the terminals, solder (or flux) may adhere to the contacts or rotating parts of the actuator resulting in the poor contact or rotation failure of the actuator.



<ADDITIONAL RECOMMENDATIONS 3>