

This connector features small, thin and back flip design, requiring delicate and careful handling. Read through the instructions shown below and handle the connector properly.

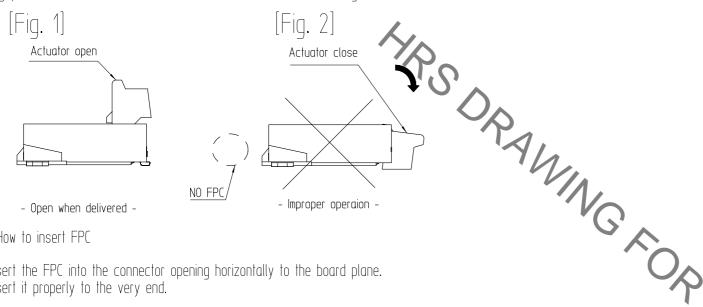
(Operation and Precautions)

1. Initial condition

Actuator does not have to be operated before inserting FPC. as the connector is delivered with the actuator opened. [See Fig. 1]

[Caution]

-Do not close the actuator before inserting FPC Closing the actuator without FPC could make the contact gap smaller, witch could increase the FPC insertion force. [See Fig. 2]



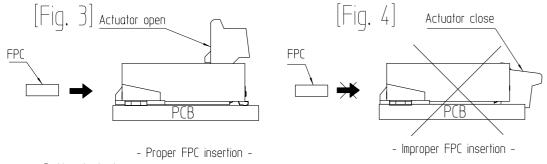
2. How to insert FPC

Insert the FPC into the connector opening horizontally to the board plane. Insert it properly to the very end.

[Caution]

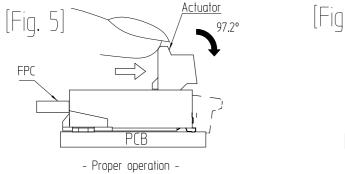
-Insert the FPC with the actuator opened. [See Fig. 3, Fig. 4]

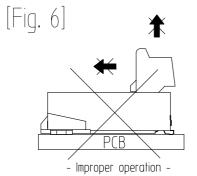
-Twisting the FPC to up and down, right and left or an angle could cause contact deformation and contact failure.



3. How to lock

Apply load to rotate the actuator by 97.2 degree after inserting the FPC. [See Fig. 5]





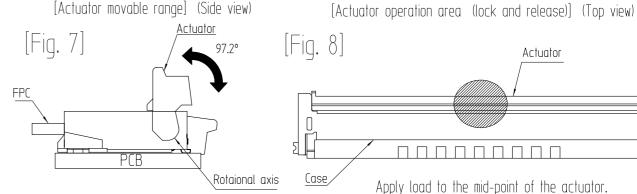
[Caution]

- -The actuator rotates around the rotational axis. [See Fig. 7]
- -Do not rotate the actuator to the counter direction.
- Do not pitch or pick the actuator to lift. Otherwise, it may break. [See Fig. 6]
- -Apply load to the mid-point on the actuator to rotate it. [See Fig. 8]
- -Do not apply excess force to the housing during the operation.

(Prohibited acts)

Do not operate the side end of the actuator, or it may twist the actuator and cause half mating.

-Please operate both ends at the same time when you cannot operate the vicinity of the center part.



4. How to remove FPC (How to unlock)

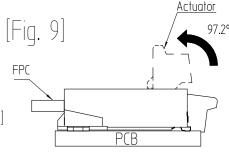
Slowly flip up the actuator to release the lock and remove the FPC

-The actuator is opened up to the movable limit. 97.2 degree.

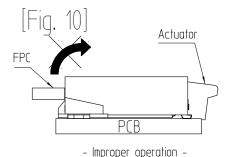
So not open the actuator beyond the specified degree or apply excess force to the actuator. [See Fig. 9]

pen the actuator operate at the mid-point of the actuator. [See Fig, 8]

te that the connector is back flip style connector, and the spening for FPC insertion and the actuator face the opposite direction. Do not try to lift the actuator at the FPC insertion opening side. [See Fig. 10]



- Proper operation -



[Prohibited acts]

Do not lift up the side end of the actuator, or it may twist the actuator and cause breakage.

- Please operate both ends at the same time when you cannot operate the vicinity of the center part.

[Prohibited acts]

Do not pull out the FPC with the actuator locked. When FPC is pulled out with the actuator locked. it cause the contact deformation and contact failure.

INSTRUCTION MANUAL <1>

DRAWING NO. EDC3-632297	PART NO.	TF46-**S-0.5SH(800)	
HS HIROSE KOREA CO.,LTD.	CODE NO.		4/5

This connector features small, thin and back flip design, requiring delicate and careful handling. Read through the instructions shown below and handle the connector properly.

[Instructions for mounting on the board]

1. 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.

2. Load to connector

Do not apply mechanical stress to the connector before mounting on the board.

Otherwise, the connector may be broken.

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

3. Load to board

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

Avoid the handling described above so that no force is applied on the board

during the assembly process

Otherwise, the connector may become defective.

4. Reflow temperature profile

Apply reflow temperature profile within the specified conditions.

In individual applications, the actual temperature may vary,

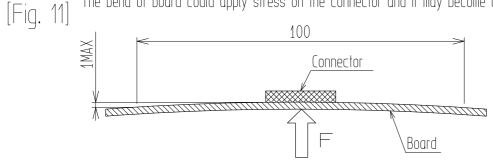
depending on solder paste type, volume/thinkness and board size/thickness.

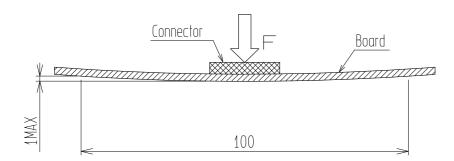
Consult your solder paste and equipment manufacturer for specific recommendations.

5.Amount of bend of board

The bend of a 100mm wide board should be 1 mm or less. [See Fig. 11]

The bend of board could apply stress on the connector and it may become defective





[Precautions for design]

- 1. During FPC wiring, ensure that stress is not applied directly to the connector Do not bend the FPC excessively near the connector during use, or it may cause contact failure or FPC breakage.
 - Stabilizing the FPC is recommended.
- 2. Keep a sufficient FPC insertion space in the stage of the layout in order to avoid incorrect FPC insertion

Appropriate FPC length and component layout are recommended for assembly ease. Too short FPC length makes assembly difficulty.

- 3. Follow the recommended PCB layout, FPC design and the metal mask opening design.
- 4. Make adjustments with the FPC manufacturer for FPC bending performance and wire breakage.
- 5. Keep spaces for the actuator movement and its operation for PCB design and component layout.

Other instructions

1. Instructions on manual soldering

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

[Prohibited acts

1. Do not perform manual soldering with the FPC inserted into the connector.

efal not to let the soldering iron contact any parts other than connector leads.

Otherwise, the cornector may be deformed or melt.

3. Do not apply excessive solder (or flux).

If excessive solder (or flex) is applied 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 metal fitting may hinder actuator rotation.

resulting in breakage of the connector.

INSTRUCTION MANUAL <2>

DRAWING NO. EDC3-632297	PART NO.	TF46-**S-0.5SH(800)	
#\$ HIROSE KOREA CO.,LTD.	CODE NO.		5/5

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