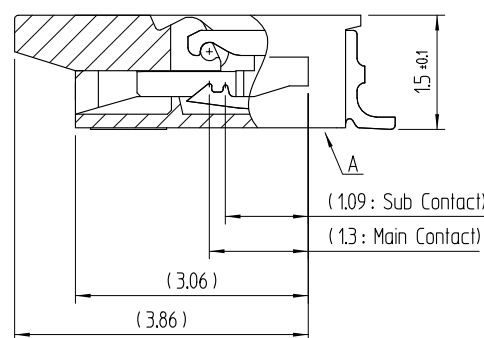
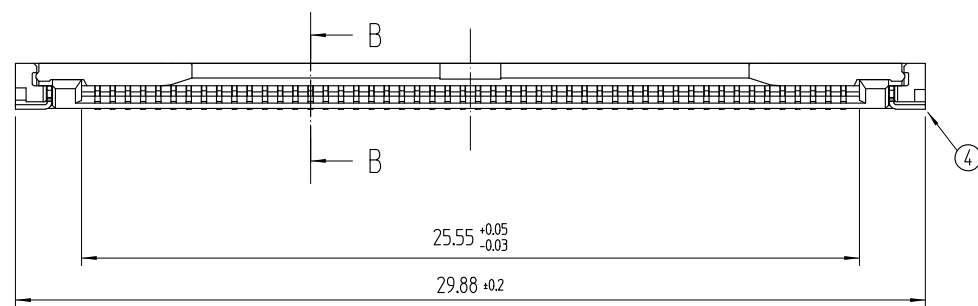
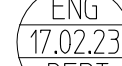
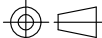



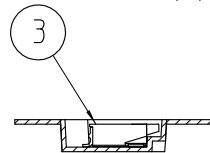
A  
—  
B  
—  
C  
—  
D  
—  
E  
—  
F



NOTE 1. REFERENCE IS A  
2. LEAD CO-PLANARITY SHALL BE 0.1mm MAX

[illegible]

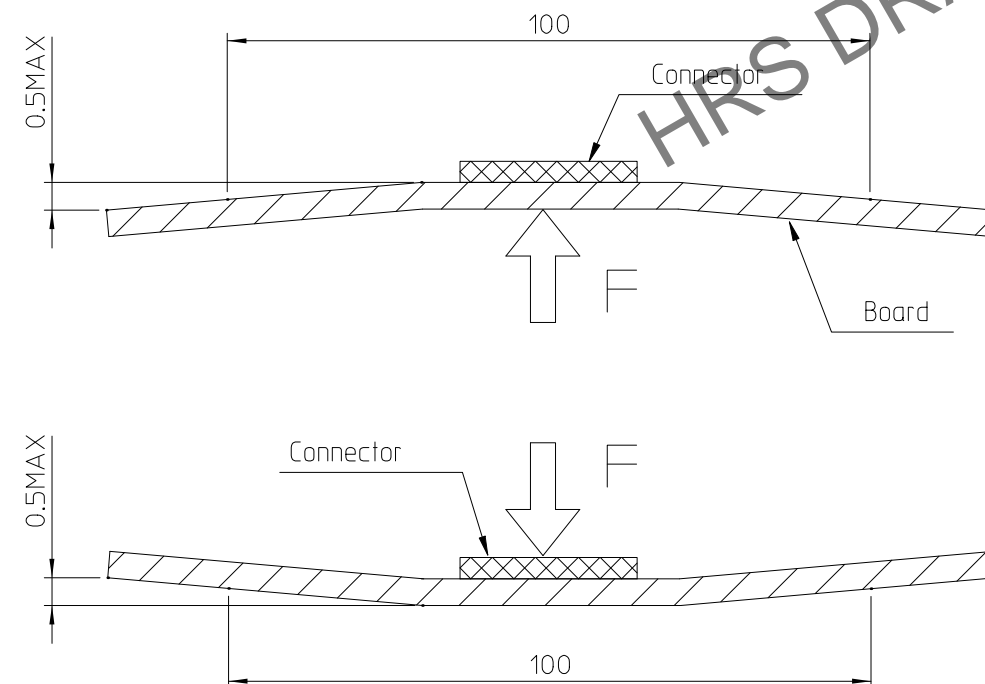
2	LCP	UL94V-0 , BLACK	4	PHOSPHOR BRONZE	TIN PLATING 1um MIN.OVER NICKEL 1um MIN.		
1	LCP	UV95V-0 , NATURAL	3	PHOSPHOR BRONZE	GOLD PLATED		
NO.	MATERIAL	FINISH,REMARKS		NO.	MATERIAL	FINISH,REMARKS	
CODE NO. (OLD)			DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
			M.G.KANG	M.G.KANG	D.H.CHO	H.C.SONG	
			14.09.16	14.09.16	14.09.16	14.09.16	
		DRAWING NO. EDC3-631681-80		PART NO. TF49-50S-0.5SH(800)			
SCALE 4:1		 HIROSE KOREA CO.,LTD.		CODE NO			<div>1</div> <div>1</div>
UNITS mm				CL 6545-0001-5-800			



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

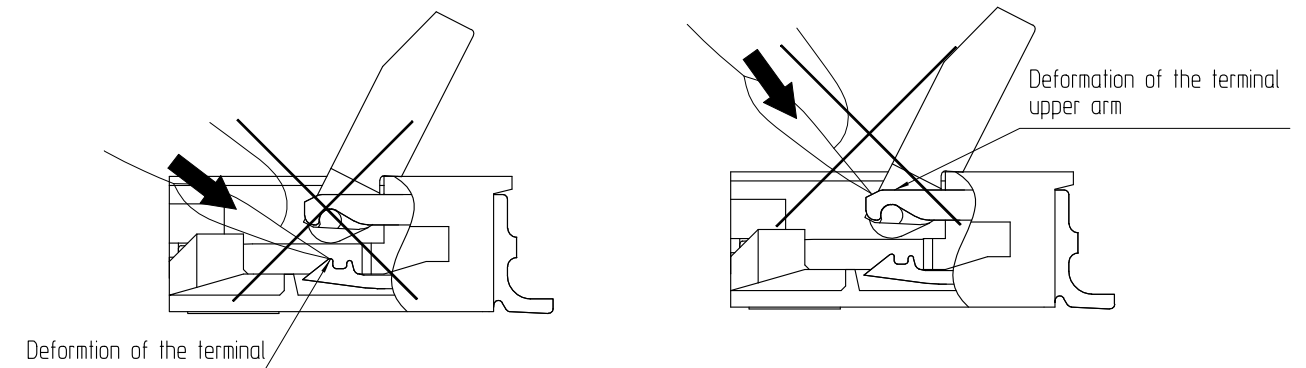
#### [INSTRUCTIONS FOR MOUNTING ON THE BOARD]

- ◆ Warp of Board  
Minimize warp of the board as possible  
Lead co-planarity including reinforced metal fitting is 0.1mm or less  
Too much warp of the board may result in a soldering.
- ◆ Load to Connector  
Do not apply a force of 0.5N or more to the connector before mounting it on the board.  
Otherwise, the connector may be broken.  
Do not warp the FPC or operate the connector before mounting it.
- ◆ 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  
The warp of a 100-mmwide board should be 0.5mm or less.  
The warp of board suffers stress on connector and connector may become defective.

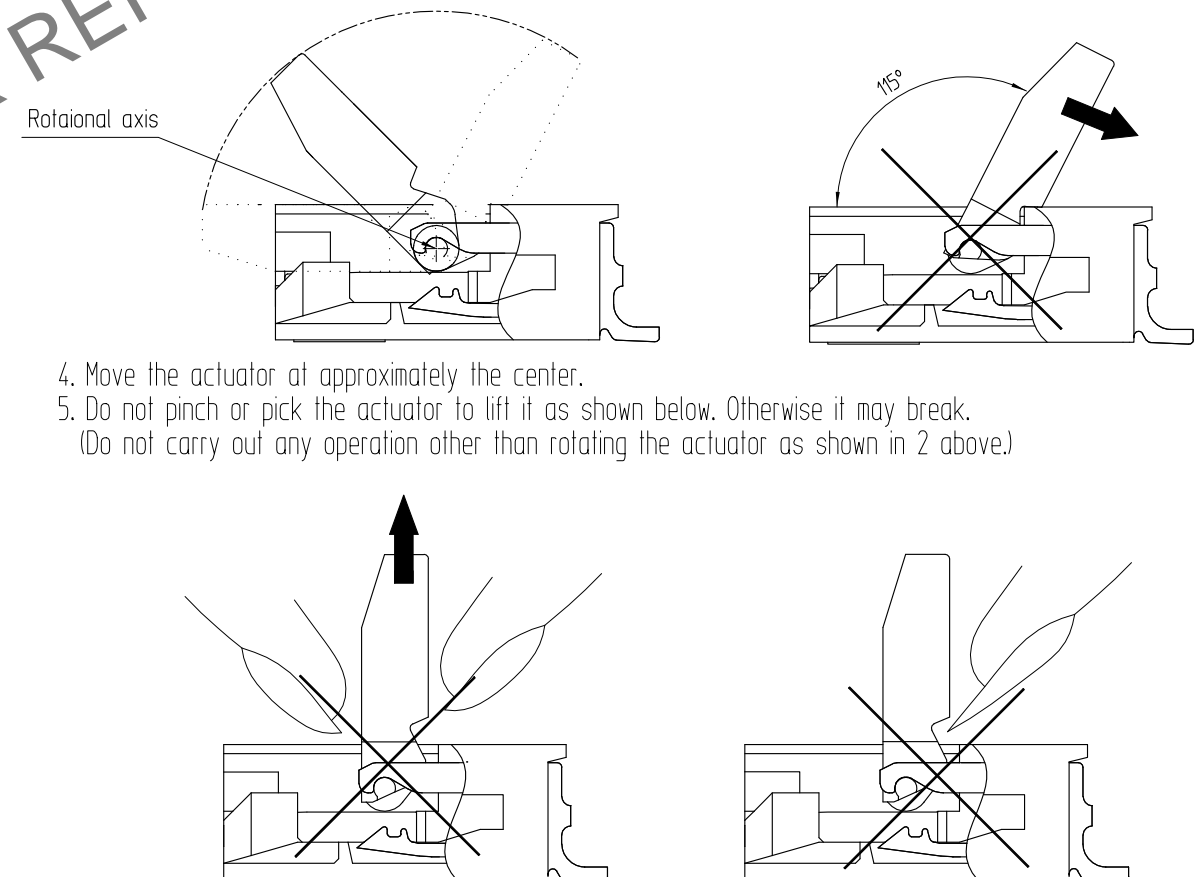


#### [INSTRUCTIONS ON INSERTING FFC/FPC AND CONNECTOR]

- ◆ Use of the Actuator  
1. Be very careful not to apply excessive force when releasing the Actuator.  
in the initial position  
if you use your nail or finger as shown, the terminals may be deformed.



- 2. The actuator rotates around the rotational axis as shown below.  
Rotate the actuator.
- 3. The actuator will not open more than 115°.  
Do not apply any force backward beyond this point.  
Otherwise the actuator may come off or break.
- 4. Move the actuator at approximately the center.
- 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.)



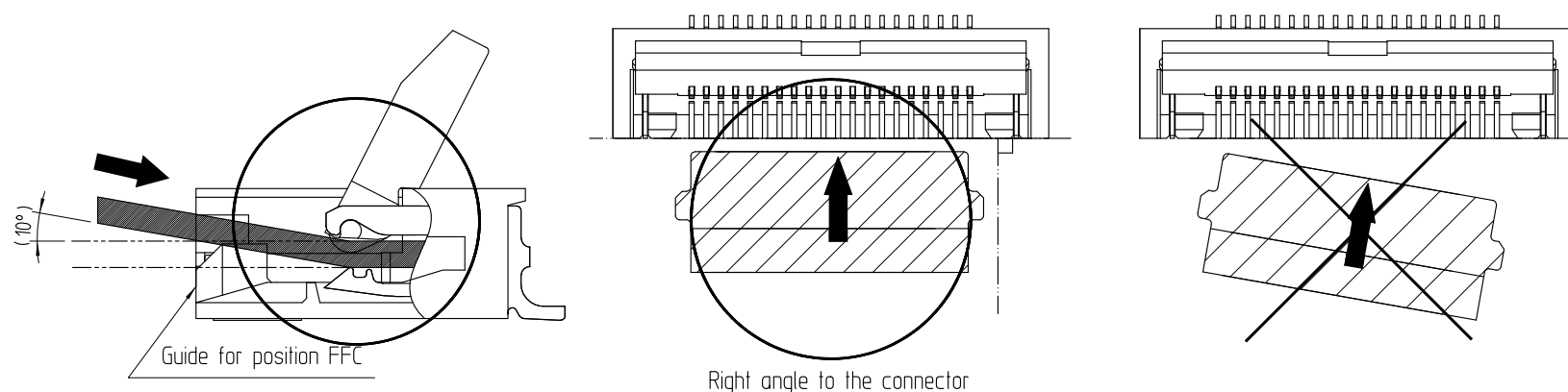
<INSTRUCTION MANUAL(1)>

◆ Direction of Contacts

This connector has contacts on the bottom. Thus, insert FFC/FPC with the exposed conductors face down.

◆ Inserting the FFC/FPC

1. Insert the FFC/FPC by about 10 degrees along the surface and at a right angle to the connector.  
Insert it properly to the very end.

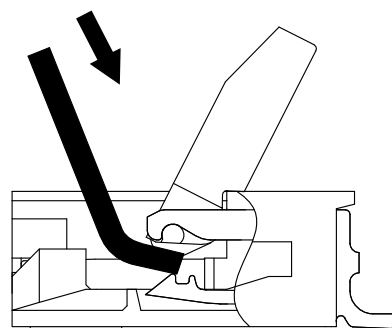


2. Do not insert the FFC/FPC diagonally from above.

If the FFC/FPC is inserted at a slant (incorrectly) as shown below in the FFC/FPC insertion process, the edge of the FFC/FPC may catch in the terminals resulting in deformation of the terminals. the FFC/FPC may bend and patterns may break or the FFC may not insert completely, resulting in improper conduction.

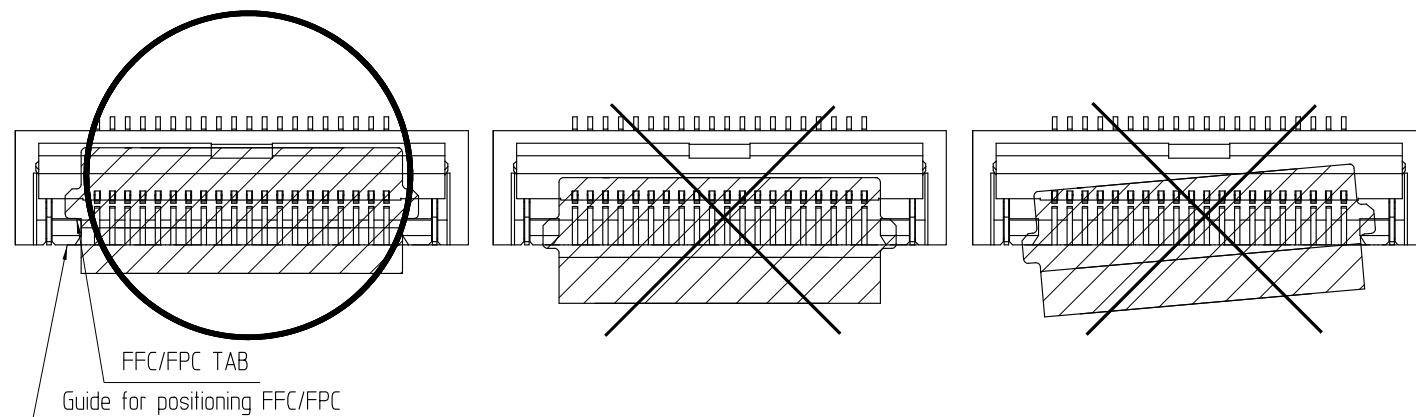
※ Keep a sufficient FPC/FFC insertion space in the stage of the layout in order to avoid incorrect FPC/FFC insertion. Besides, it is not difficult to insert FFC/FPC correctly all the way to the end. Design the proper layout of parts.

※ Make adjustments with the FFC/FPC manufacturer for bending performance and breakage.



3. Do not rotate the actuator when FFC/FPC TAB is on right and left guides for positioning FFC/FPC.

Make sure the position of FFC/FPC TAB and guides before rotate the actuator.



◆ 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° position of the actuator.

Otherwise the terminals may be deformed.

[INSTRUCTION ON FFC/FPC LAYOUT AFTER CONNECTOR]

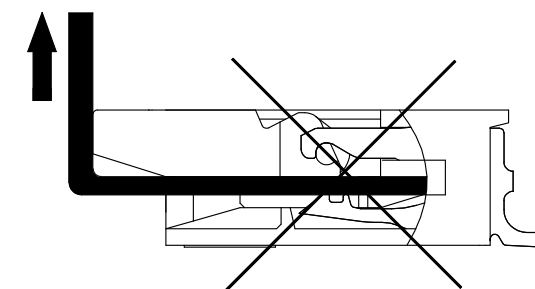
◆ Load to FFC/FPC

Be very careful not to apply any force to the connector directly after inserting FFC/FPC. Otherwise the connector may become unlocked or the FFC/FPC may break.

In particular design the FFC/FPC layout with care not to bend it sharply upward in a vertical direction near the insertion opening.

Fix the FFC/FPC when loads are applied to it continuously.

Load:  $0.1 \times n$  N MAX  
(n: number of contacts)

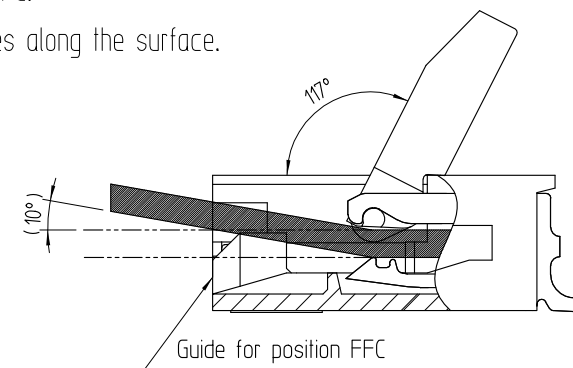


[INSTRUCTIONS ON REMOVING FPC]

◆ Move the actuator at approximately the center.

◆ Release the actuator to remove the FFC/FPC.

Remove the FFC/FPC by about 10 degrees along the surface.



[OTHER INSTRUCTIONS]

◆ Instruction on Manual Soldering

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

1. Do not perform reflow soldering or manual soldering with the FFC/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 lock hinder Actuator, resulting in breakage of the connector.

<INSTRUCTION MANUAL(2)>