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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

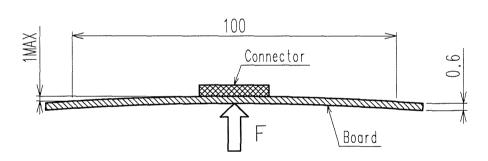
· Screwing the board

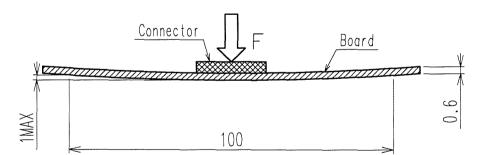
Avoid the handling described above so that no force is exerted on the board during the assembly process. Otherwise, the connector may become defective.

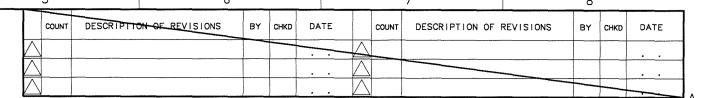
### ◆ Amount of Warp

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.





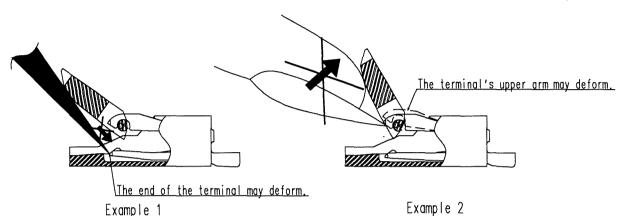


#### I INSTRUCTIONS ON INSERTING FPC AND CONNECTION 1

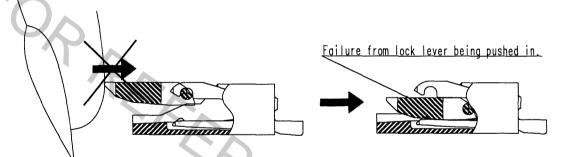
# ◆ Use of the Lock Lever

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

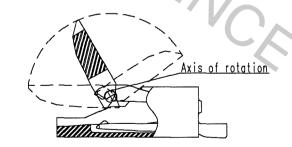
If you use your nail or finger or pair of tweezers as shown below, the terminals may be deformed.



2. When operating the lock lever, do not apply a force in the direction of the connector. The lock lever may get pushed into the connector, causing damage to the connector.



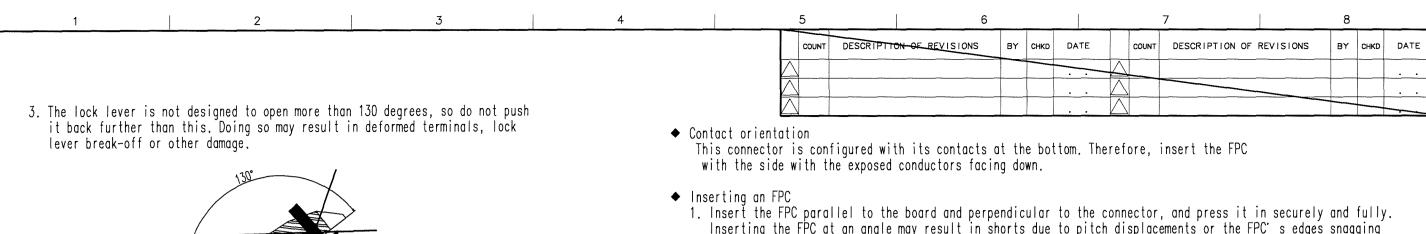
The lock lever is designed to rotate on the axis shown in the figure below so make sure to use a rotating motion when operating it.

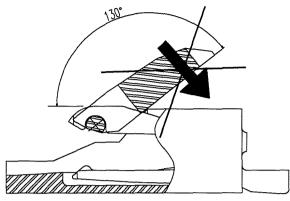


CODE NO.(OLD)		DRAWN		DESIGNED	CHECKED	APPROVED	RELEASED	
INSTRUCTION MANUAL		K.FURUKAWA		K.FURUKAWA	T.KUWATA	R.TAKAYASU		
		05 - 09	- 02	05 - 09 - 02	05 - 09 - 03	05 - 09 - 03		
DRAWING NO.  SCALE EDC3-155218-0			PART NO. FH19C-**S-0.5SH(05)					
- : 1 UNITS mm	HS HIROSE ELECTRIC CO.,			E NO.	CL580		24/	
5	6			7		8	FORM NO.22	

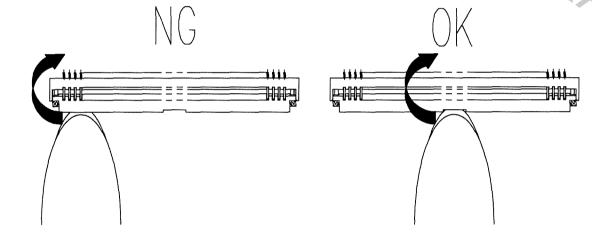
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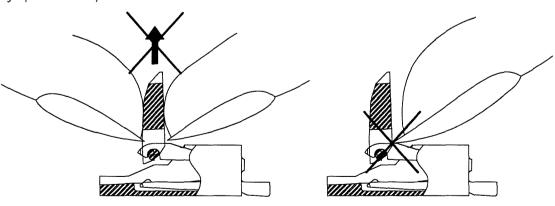




4. When operating the lock lever, avoid operating it at its end. Make sure to operate it at its middle section.



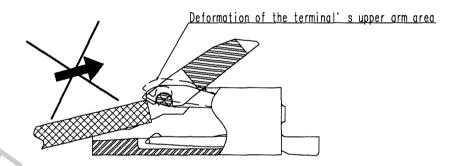
5. Do not lift or snag the lock lever as shown in the figures below. This can result in damage. (Operate the lever only in a rotating fashion as instructed in paragraph 2 above.)



Inserting the FPC at an angle may result in shorts due to pitch displacements or the FPC's edges snagging the terminal and causing them to deform.

This connector has a ZIF structure with an effective engagement length of 1.3mm (at the nominal FPC dimension recommended by Hirose). Therefore, operate the lock lever with care after the FPC has been inserted so that the FPC does not pull loose.

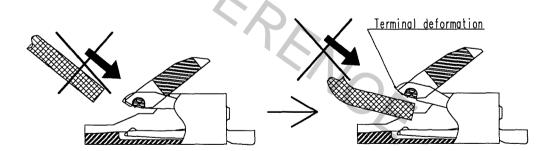
2. When inserting the FPC, make sure not to bump the FPC's tip against the upper arm area of the terminal. This may cause the terminal to deform.



3. Do not insert the FPC at an angle. Do not insert the FPC from above at an angle as shown in the figure. This may cause the FPC to bend or the terminal to deform. Additionally, the FPC may not insert all the way and result in discontinuation.

\* Please design the layout to provide for enough space for the FPC so that it will not have to be inserted at an angle.

\* Please speak with your FPC manufacturer for FPC bendability.



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INSTRUCTION MANUAL		K.FURUKAWA		K.FURUKAWA	T.KUWATA	R.TAKAYASU	
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$\oplus$ $\Box$	DRAWING NO.		PAR	NO.			\
SCALE	EDC3-155218-01		FH19C-**S-0.5SH(05)				
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