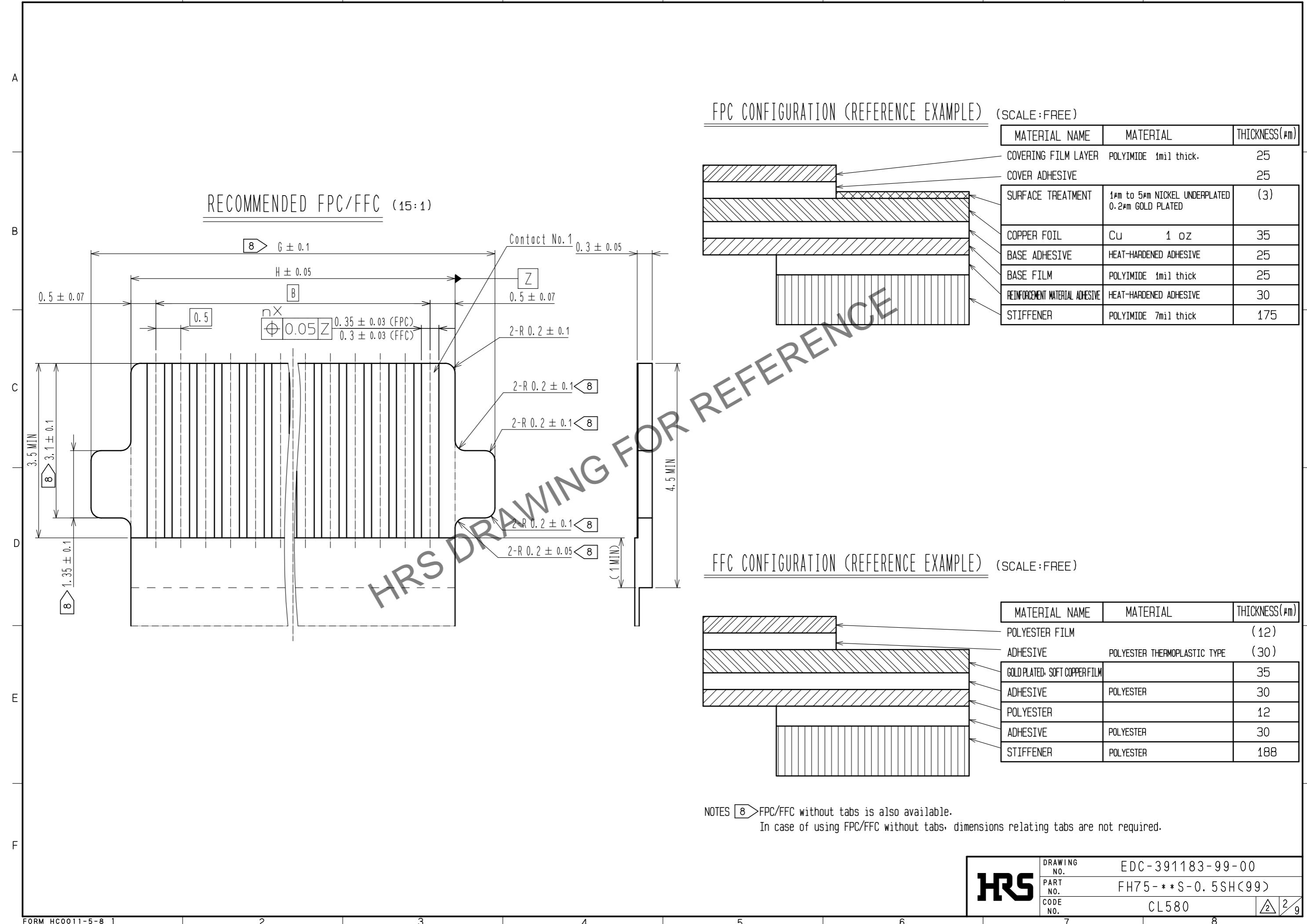
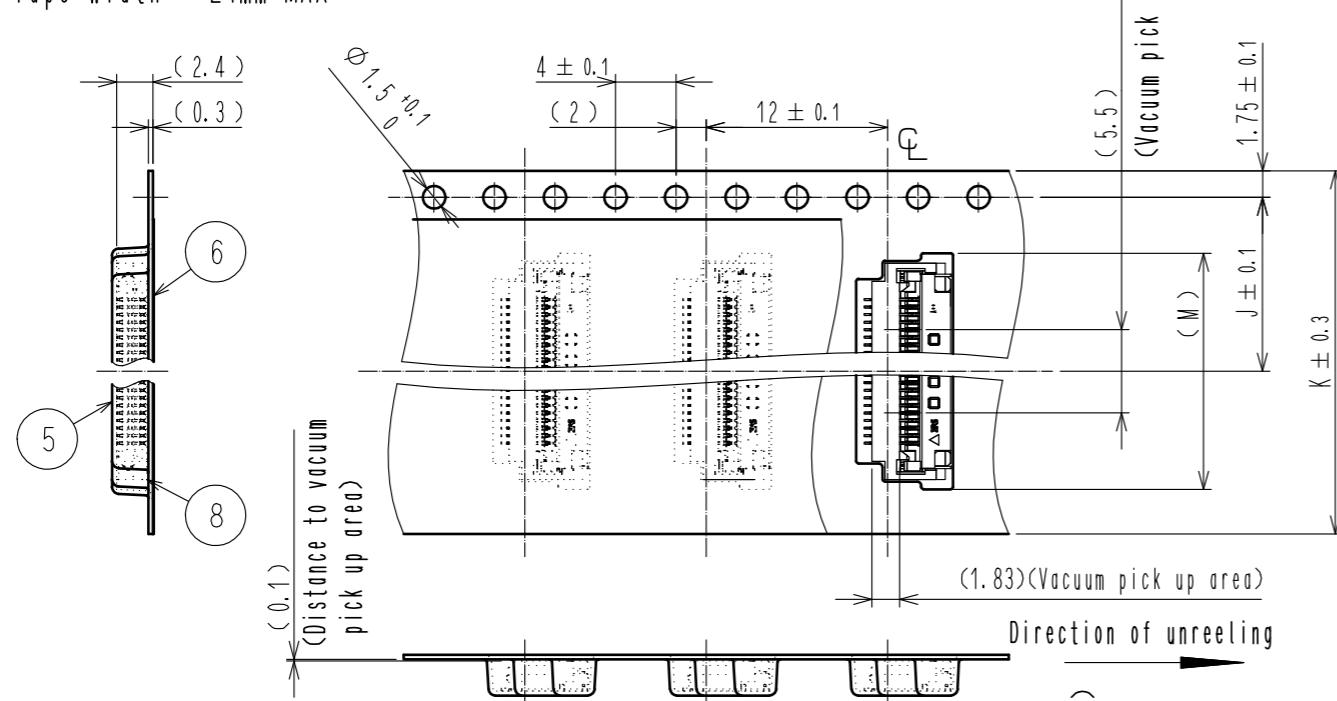


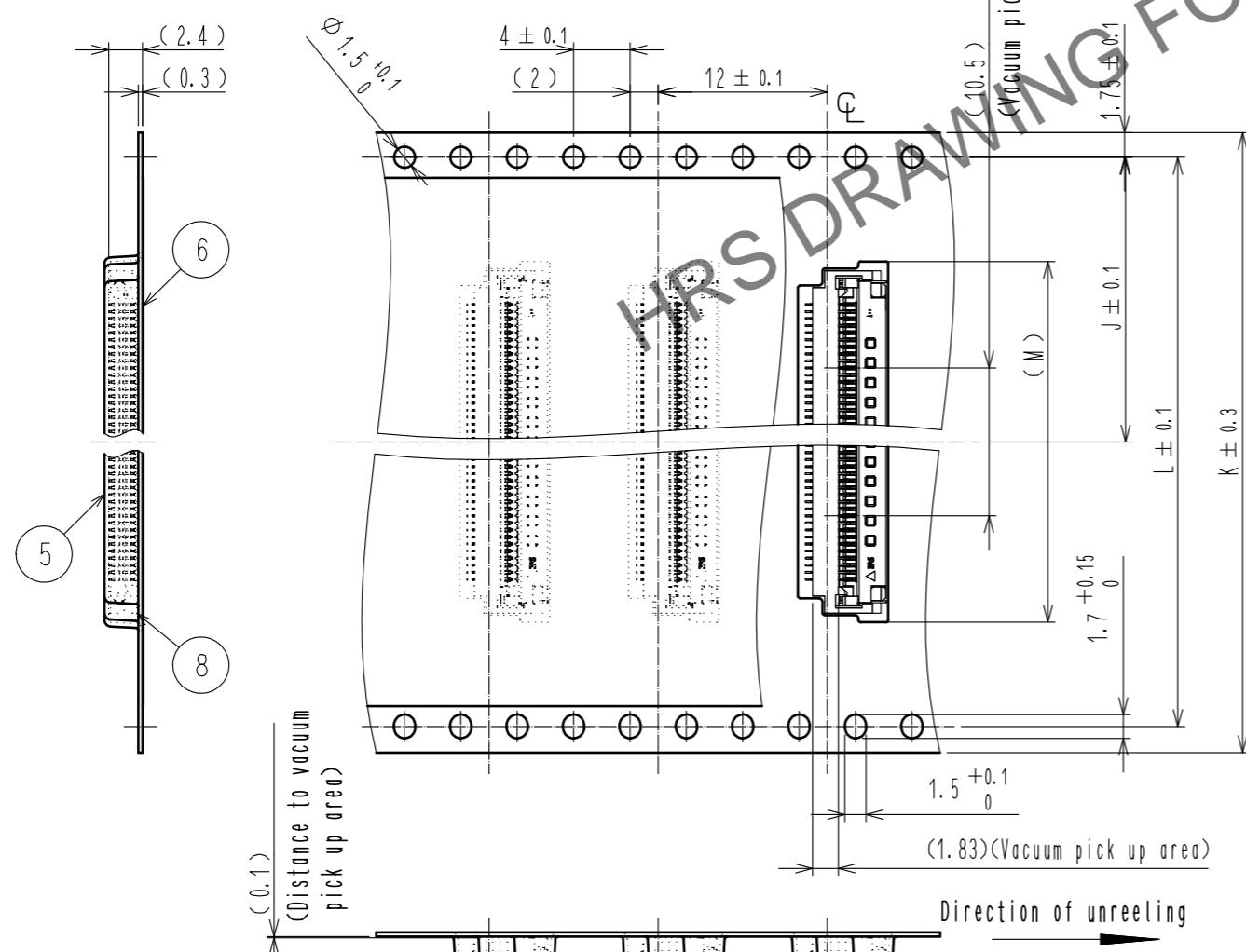
1 2 3 4 5 6 7 8



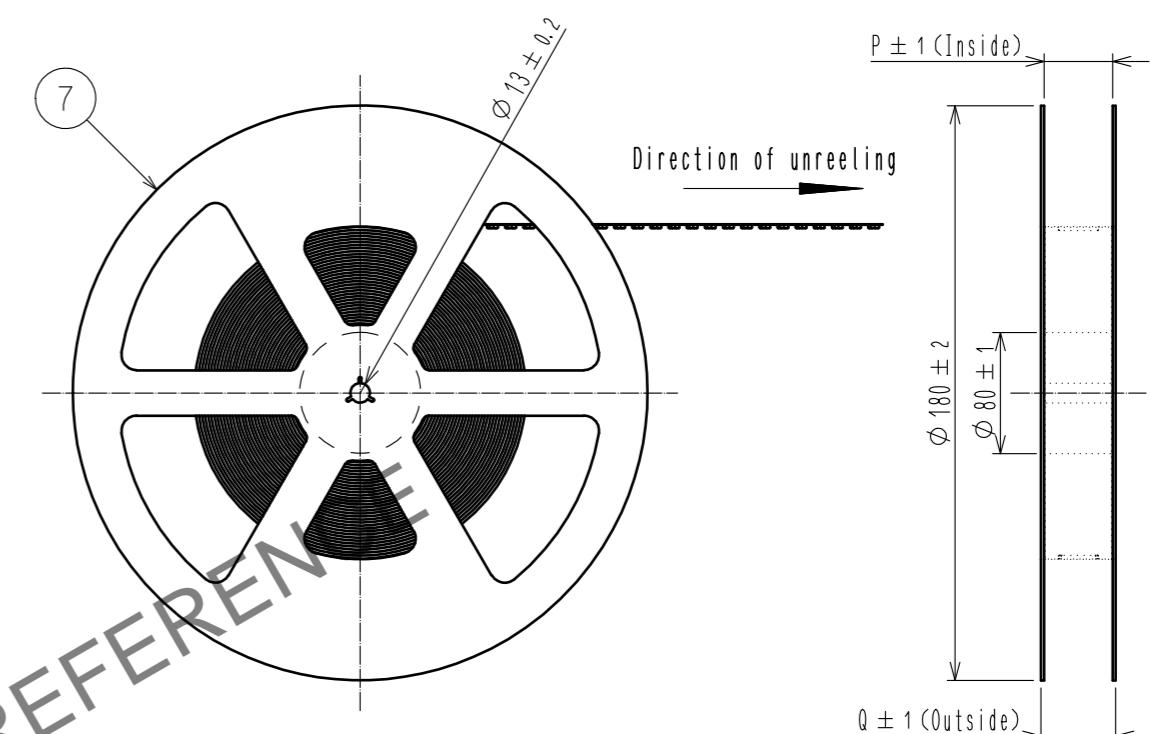
Tape width : 24mm MAX



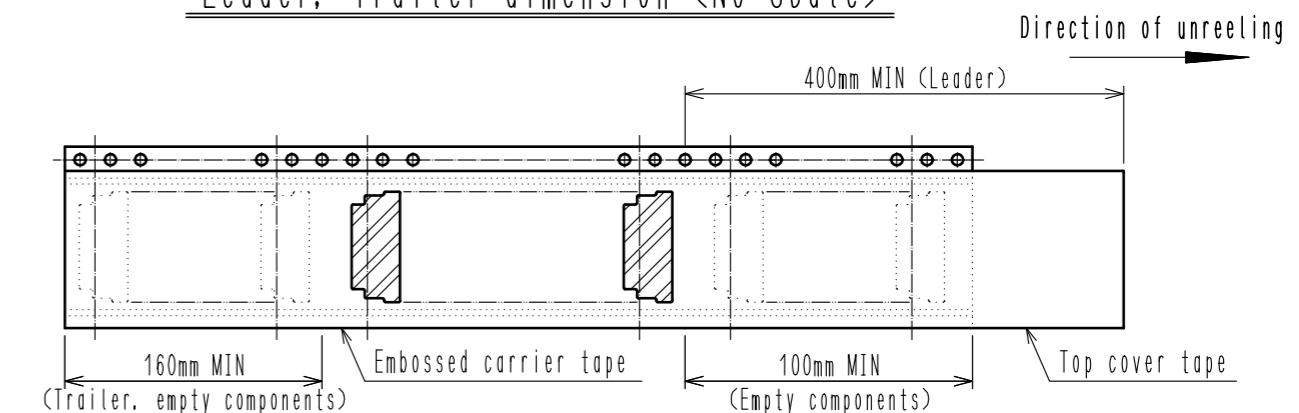
Tape width : 32mm MIN



Reel dimension (No Scale)



Leader, Trailer dimension (No Scale)



NOTES

9. 1 reel : 500 connectors.
10. Refer to JIS C 0806 and IEC 60286-3 (Packaging of components for automatic handling.)

Packing specification

HIROSE	DRAWING NO. EDC-391183-99-00
	PART NO. FH75-**S-0.5SH(99)
	CODE NO. CL580
	2 3 9

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8

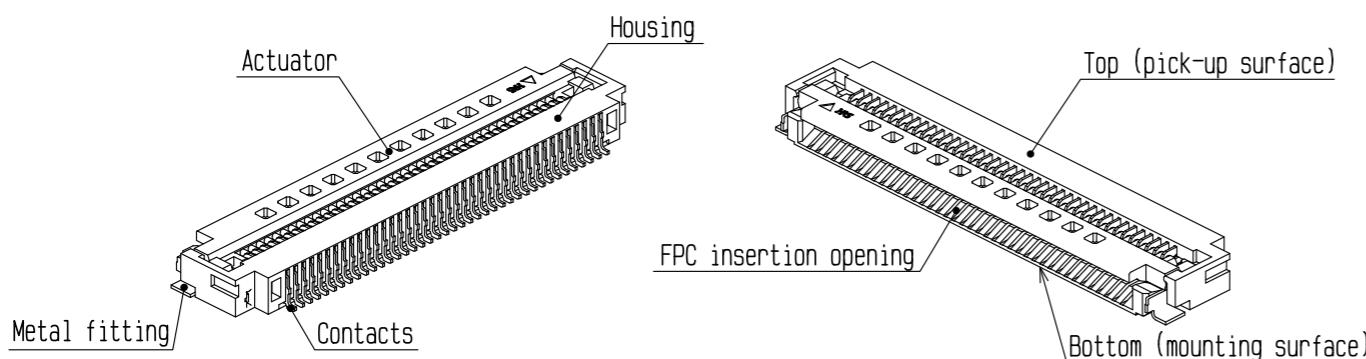
Part No.	Code Number	Number of contacts	Dimension of connector, PCB mounting pattern, stencil pattern and FPC/FFC								Dimension of drawing for packing					
			A	B	C	D	E	F	G	H	J	K	L	M	P	Q
FH75-8S-0.5SH(99)	_____	8	8.3	3.5	4.57	6.55	8.3	6.1	6.1	4.5	11.5	24	-	9.6	25.4	29.4
FH75-10S-0.5SH(99)	_____	10	9.3	4.5	5.57	7.55	9.3	7.1	7.1	5.5	11.5	24	-	10.6	25.4	29.4
FH75-15S-0.5SH(99)	_____	15	11.8	7.0	8.07	10.05	11.8	9.6	9.6	8.0	11.5	24	-	13.1	25.4	29.4
FH75-30S-0.5SH(99)	_____	30	19.3	14.5	15.57	17.55	19.3	17.1	17.1	15.5	20.2	44	40.4	20.6	45.4	49.4
FH75-40S-0.5SH(99)	CL0580-5300-0-99	40	24.3	19.5	20.57	22.55	24.3	22.1	22.1	20.5	20.2	44	40.4	25.6	45.4	49.4
FH75-50S-0.5SH(99)	_____	50	29.3	24.5	25.57	27.55	29.3	27.1	27.1	25.5	20.2	44	40.4	30.6	45.4	49.4
FH75-60S-0.5SH(99)	_____	60	34.3	29.5	30.57	32.55	34.3	32.1	32.1	30.5	26.2	56	52.4	35.6	57.4	61.4
FH75-68S-0.5SH(99)	_____	68	38.3	33.5	34.57	36.55	38.3	36.1	36.1	34.5	26.2	56	52.4	39.6	57.4	61.4
FH75-80S-0.5SH(99)	_____	80	44.3	39.5	40.57	42.55	44.3	42.1	42.1	40.5	34.2	72	68.4	45.6	73.4	77.4

※The products without code number are currently under planning.
Please contact Hirose for detailed information about product variation.

HRS	DRAWING NO. PART NO. CODE NO.	EDC-391183-99-00 FH75-**S-0.5SH(99) CL580	4
2	4	9	

To prevent connector/FPC breakage and contact failure (mating failure, FPC pattern breakage, etc), read through the instructions shown below and handle the connector properly. Although this instruction manual is applicable to usage with FPC/FFC.

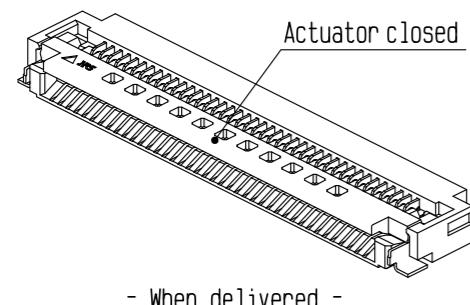
[Connector Part Nomenclature]



[Operation and cautions]

1. Initial condition

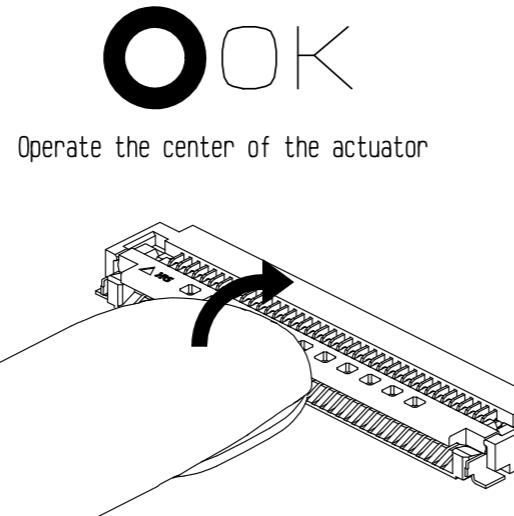
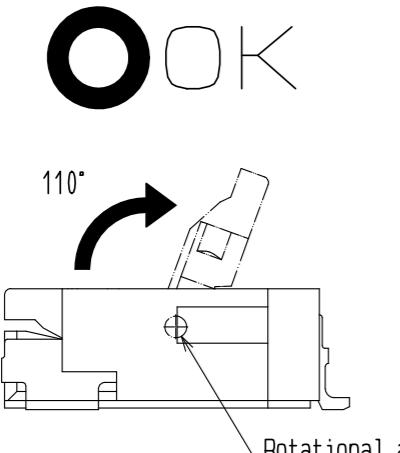
The connector is delivered with the actuator closed.



- When delivered -

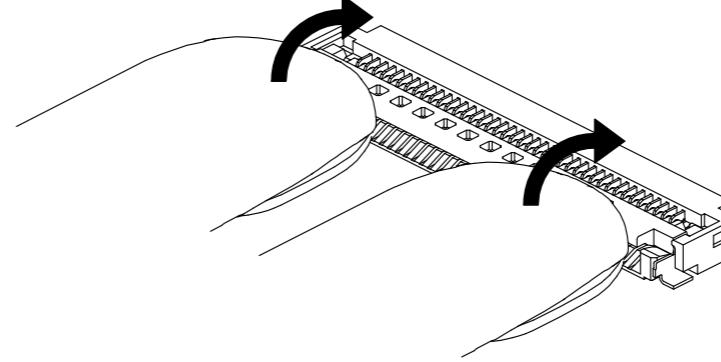
2. How to unlock (Before inserting FPC)

The actuator rotates on its axis as shown below. Slowly flip up the actuator to release the lock.



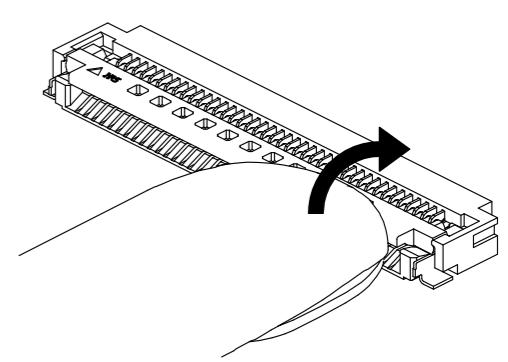
OK

Operate near both-ends of the actuator at the same timing moment.



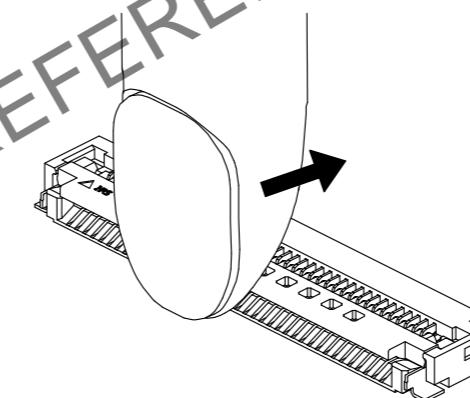
NG

Operate at one end of the actuator



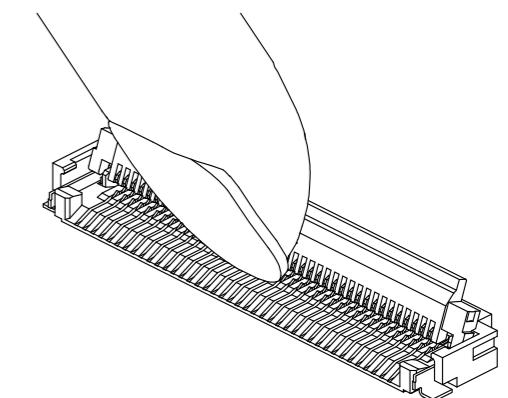
NG

Operation to push the actuator into connector



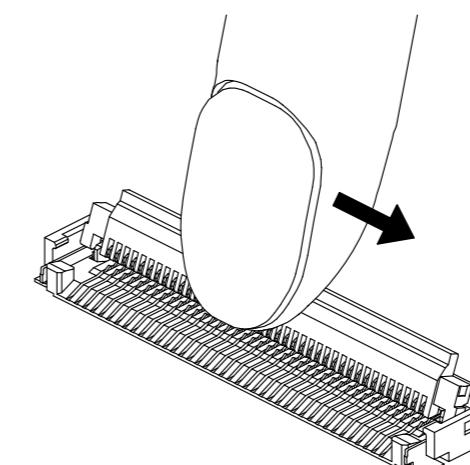
NG

Insertion of fingernails or any tool inside the connector



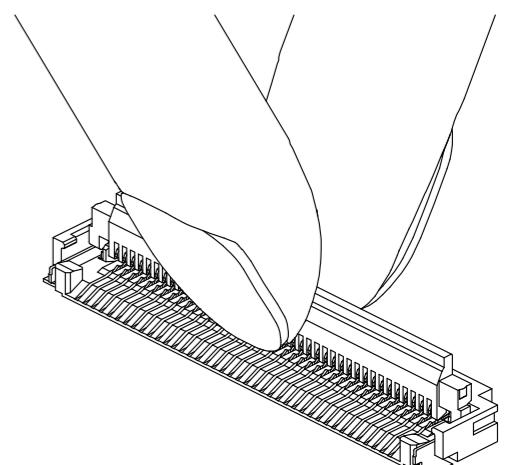
NG

Excessive load on actuator



NG

Pick the actuator to lift



<Instruction manual(1)>

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3. How to insert FPC

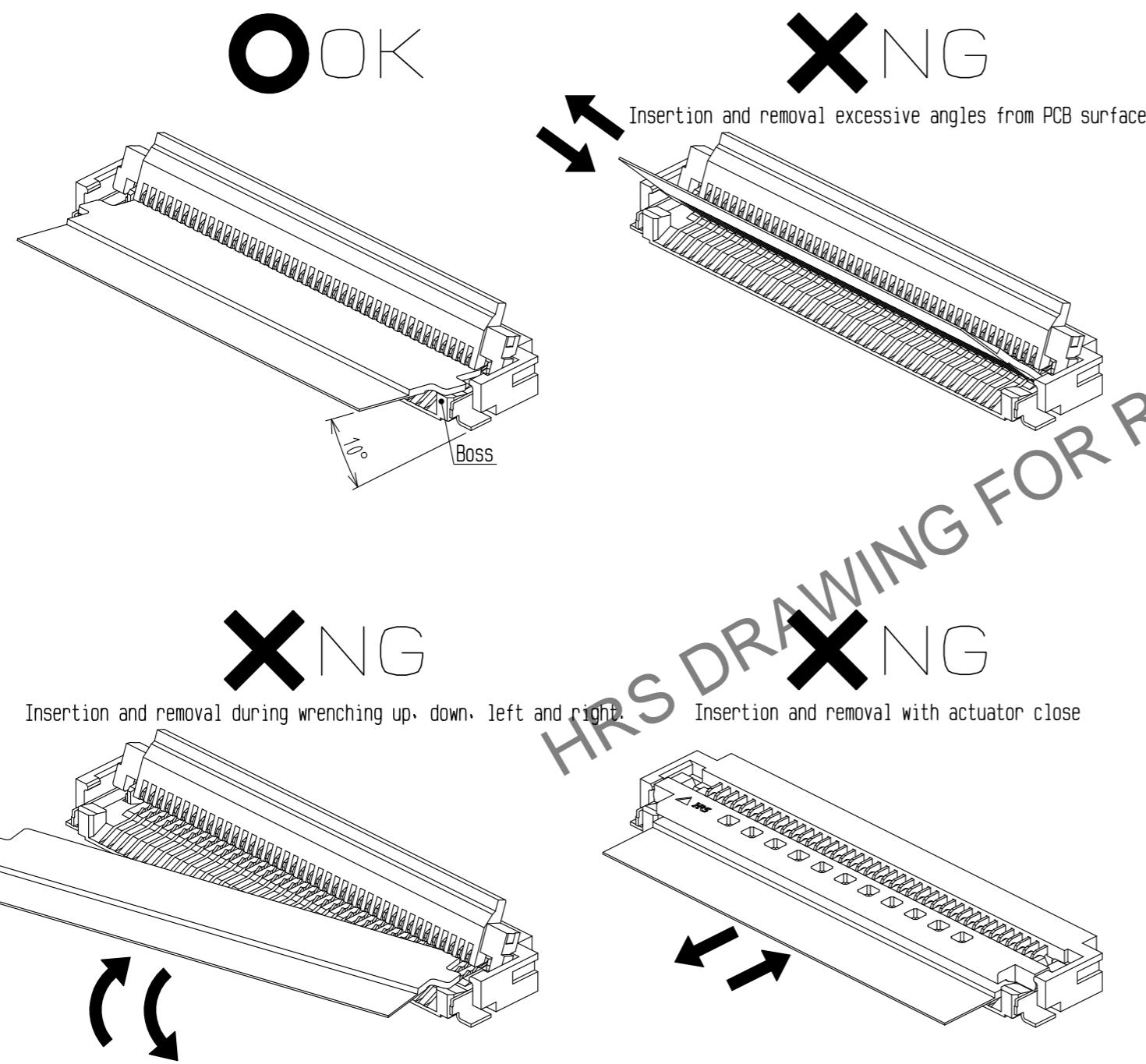
This connector has contacts on the bottom, insert the FPC with the exposed conductors face down.

This connector has boss for positioning FPC, insert the FPC at about 10 degree angle to the PCB mounting surface.

In case of using FPC without tabs, insert the FPC horizontally along the surface.

After rotating the actuator to the fully opened position carefully withdraw the FPC pulling out at about 10 degree angle to the PCB mounting surface.

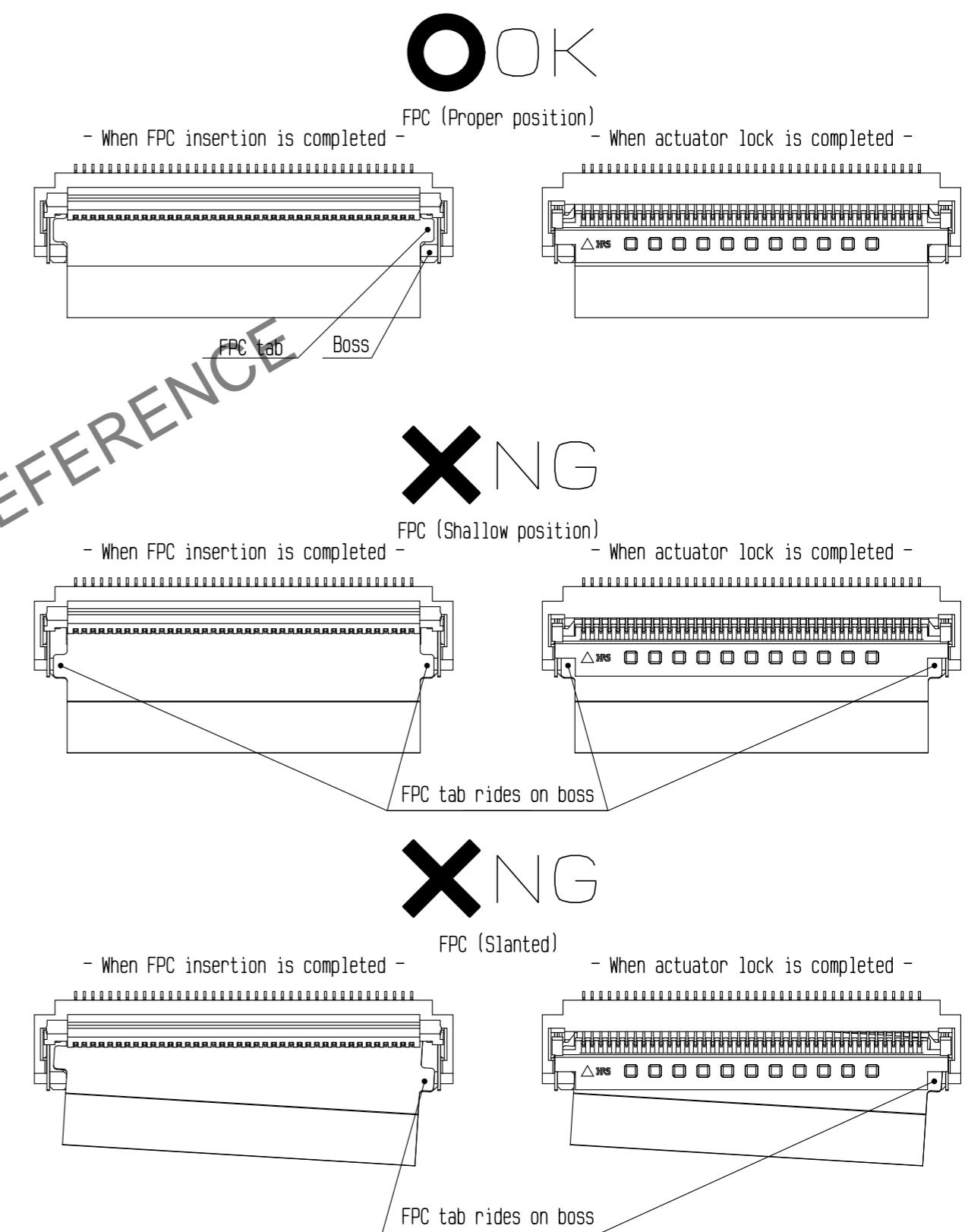
In case of using FPC without tabs, pull out the FPC horizontally along the surface.



4. FPC insertion check and mating confirmation of the FPC

Boss for positioning FPC guide the FPC tabs to the correct position.

Make sure that the FPC tabs are located in correct position as shown in the figure below after FPC insertion.



<Instruction manual(2)>

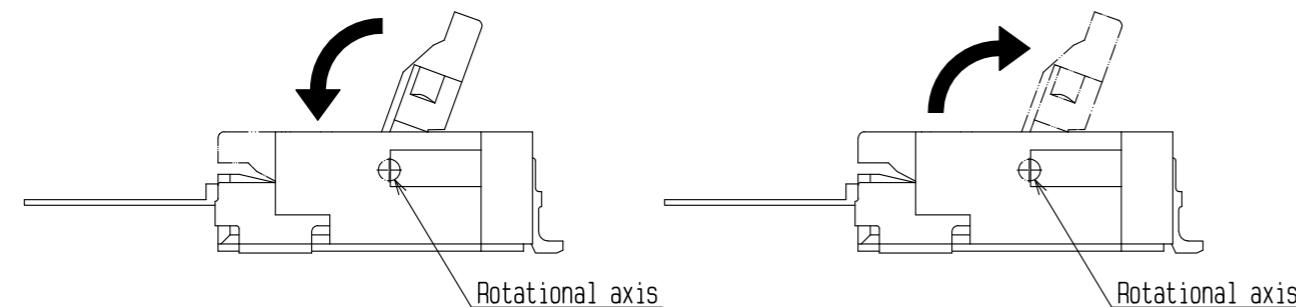
HRS	DRAWING NO. EDC-391183-99-00
	PART NO. FH75-**S-0.5SH(99)
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	2 6 9

5. How to lock and unlock

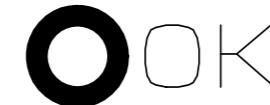
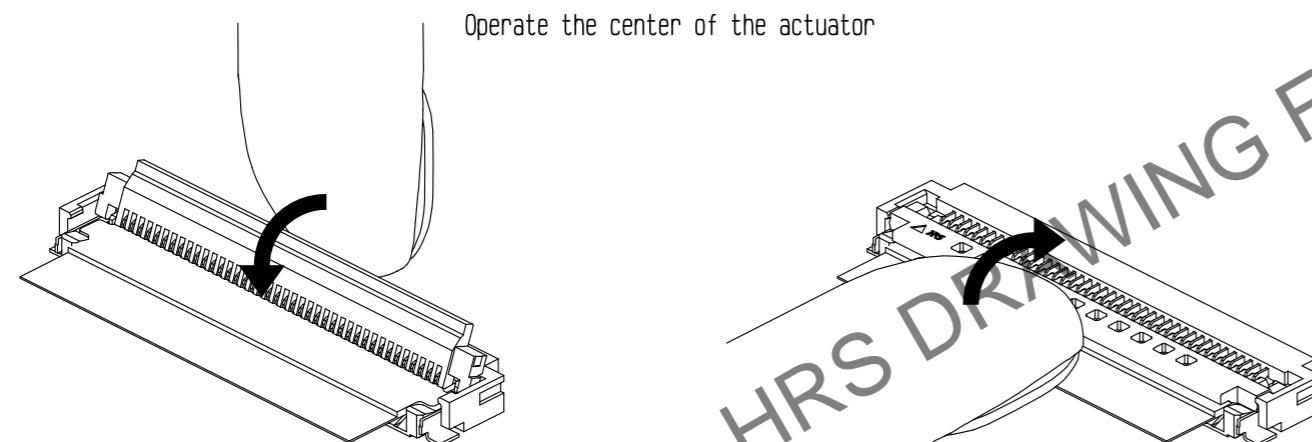
The actuator rotates around the rotational axis.

Lock : Apply load to rotate the actuator after inserting the FPC.

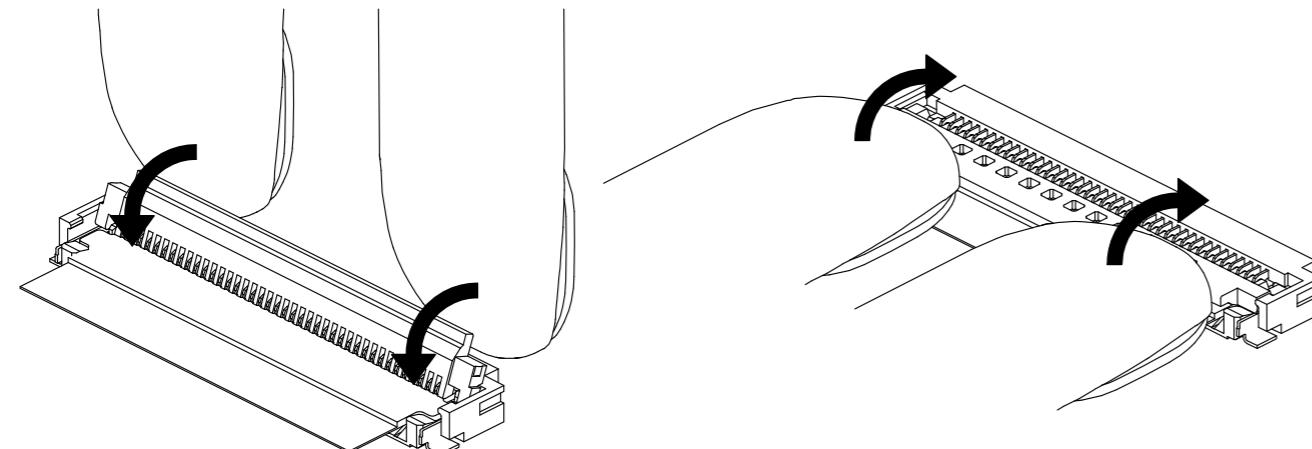
Unlock : Slowly flip up the actuator to release the lock.



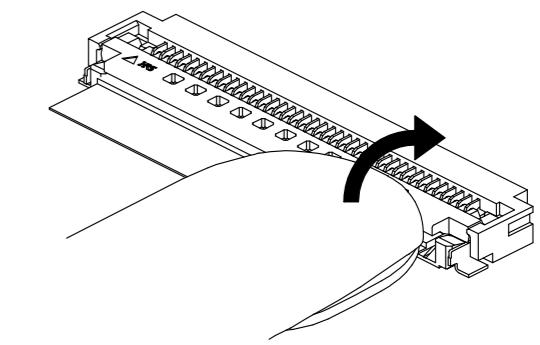
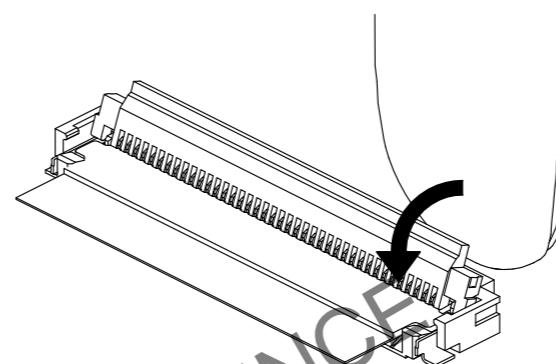
Operate the center of the actuator



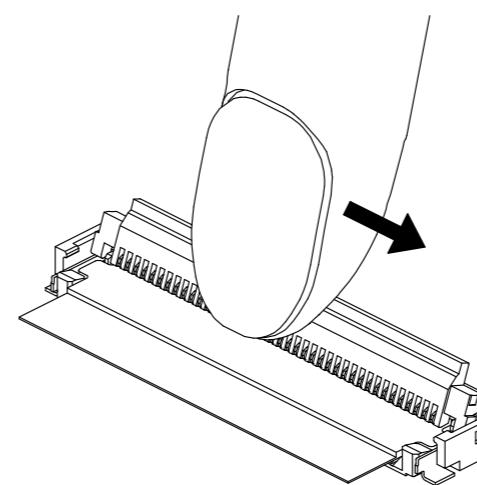
Operate near both-ends of the actuator at the same timing moment.



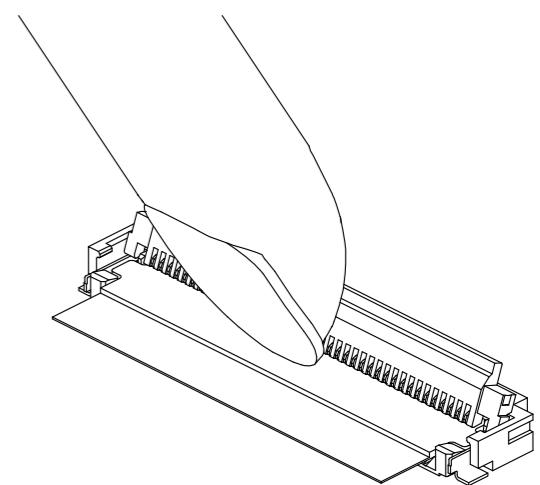
Operate at one end of the actuator



Excessive load on actuator



Insertion of fingernails or any tool inside the connector



[Instructions for PCB layout]

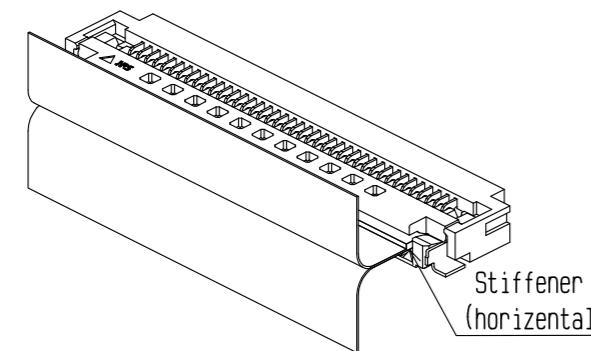
Please design a PCB layout not to apply load to connector and FPC.

[Cautions]

- When fixing FPC after FPC cabling, avoid pulling FPC, and route the wire FPC with slack.
In this regard, the stiffener is parallel to the PCB.
- Do not mount other components touching to the FPC underneath the FPC stiffener.
- Make adjustments with the FPC manufacturer for FPC bending performance and wire breakage.
- Keep spaces for the actuator movement and its operation for PCB design and component layout.
- Please contact Hirose incase you would like to use an FPC with a different dimension or shape than recommended.

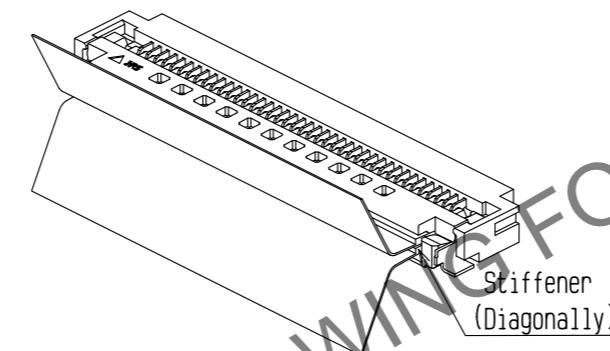
OK

No load applied to stiffener



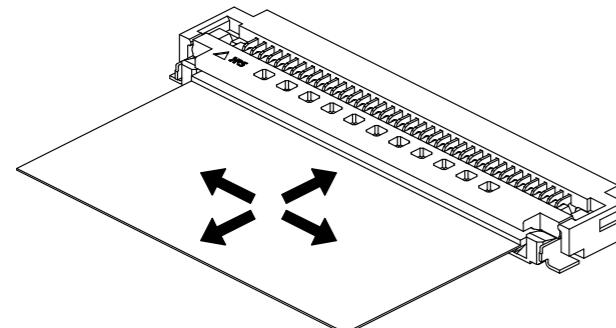
NG

Load applied to stiffener



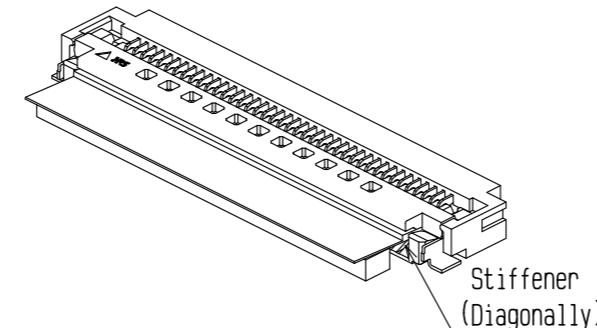
NG

Load applied to FPC



NG

Housing or parts interfering with the FPC



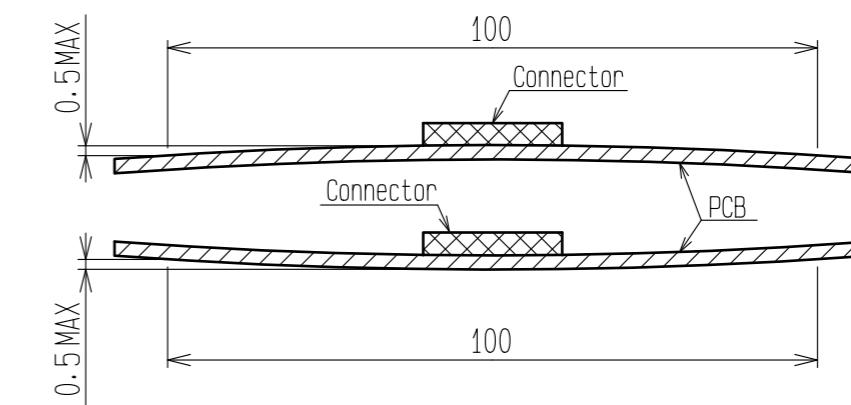
[Instructions for mounting on the PCB]

- Refer to recommended layouts for PCB, stencil pattern and FPC dimension.
- When there is silk printing etc. on the bottom of the connector, please check the mounting condition before use.
- Apply reflow temperature profile within the specified conditions.
The mounting condition may change depending on the type of cream solder, manufacturer, PCB size. Please check the mounting condition before use and conditions of other mounting parts.
- Prevent warpage of PCB, the co-planarity of the connector is less than 0.1mm. but when the warpage of the PCB is large, soldering failure occurs.
- When mounting on the flexible board, please make sure to put a stiffener on the backside of the flexible board.
We recommend a glass epoxy material with the thickness of 0.3 mm min.
- Do not add 0.5 N or greater external force when unreel or adsorb the connector etc, or it may get broken.

[Instructions for PCB handling after mounting the connector]

Due to warpage of the PCB, load may be applied to the connector and it may be damaged.

- Splitting a large PCB into several pieces
- Screwing the PCB
During the handling described above, do not exert an excessive force on the PCB. Otherwise, the connector may become defective.
- The warp of a 100 mm wide PCB should be 0.5 mm or less.
The warp of PCB suffers stress on connector and the connector may become defective



[Instructions of hand soldering]

- Do not perform hand soldering with the FPC inserted into the connector.
- Do not apply excessive heat. And soldering iron must not touch connector except terminal leads area.
- Do not supply excessive solder (flux).

<Instruction manual(4)>

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9

[Recommended reflow temperature profile]

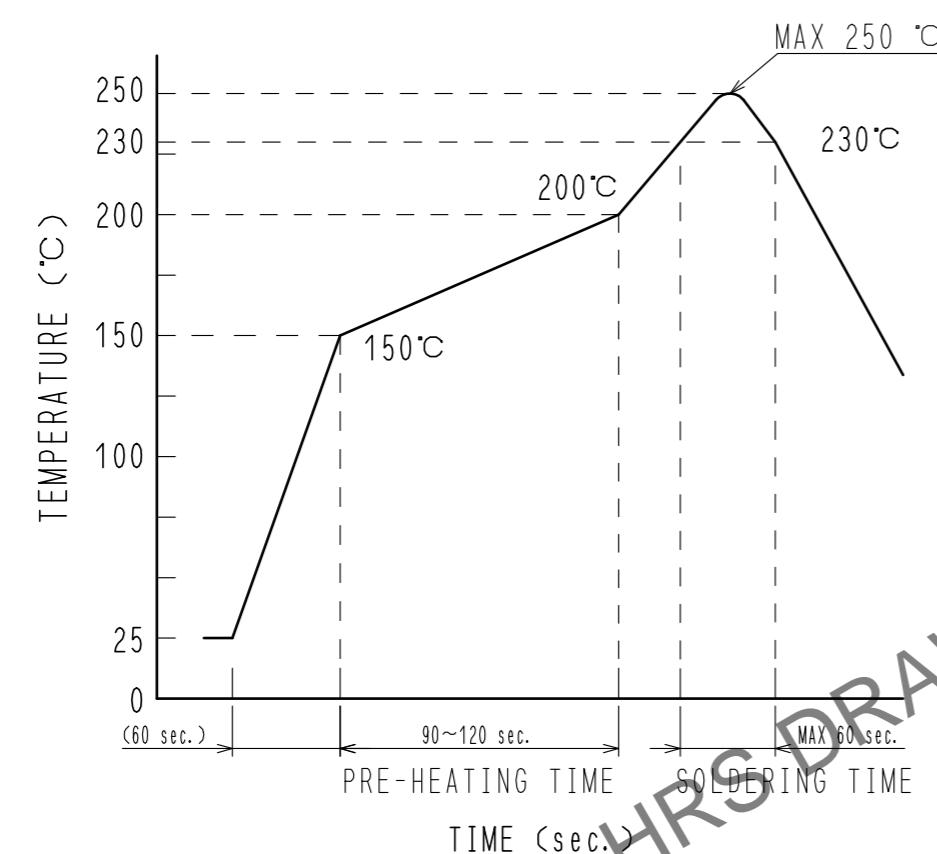
The temperatures mentioned above refer to the PCB surface temperature near the connector leads.

In individual applications the actual temperature may vary, depending on solder paste type, volume/thickness and board size/thickness.

Consult your solder paste and equipment manufacturer for specific recommendations.

- Reflow method:IR reflow

- Number of reflow cycles:2 cycles MAX.



FORM HC0011-5-8 1

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