

	PART NUMBER	CODE NUMBER	NUMBER OF CONTACTS	DIMENSION OF CONNECTOR ,FPC ,PCB MOUNTING PATTERN AND STENCIL							DIMENSION OF DRAWING FOR PACKING							
	FART NOMBER			Α	В	С	D	E	F	G	н	J	K	L	М	N	Р	Q
ľ	FH34D-2S-0.5SH(50)	-	2	4	1.5	2.53	3.38	3.1	3.9	2.5	0.5	16	_	7.5	4.3	3	17.4	21.
	FH34D-3S-0.5SH(50)	-	3	4.5	2	3.03	3.88	3.6	4.4	3	1	16	_	7.5	4.7	3.5	17.4	21.
	FH34D-4S-0.5SH(50)	CL580-1274-0-50	4	5	2.5	3.53	4.38	4.1	4.9	3.5	1.5	16	_	7.5	5.3	4	17.4	21.
	FH34D-5S-0.5SH(50)	-	5	5.5	3	4.03	4.88	4.6	5.4	4	2	16	_	7.5	5.8	4.5	17.4	21.
7	FH34D-6S-0.5SH(50)	CL580-1275-0-50	6	6	3.5	4.53	5.38	5.1	5.9	4.5	2.5	16	_	7.5	6.3	5	17.4	21.
	FH34D-7S-0.5SH(50)	-	7	6.5	4	5.03	5.88	5.6	6.4	5	3	16	_	7.5	6.7	5.5	17.4	21.
	FH34D-8S-0.5SH(50)	CL580-1271-0-50	8	7	4.5	5.53	6.38	6:1	6.9	5.5	3.5	16	_	7.5	7.3	6	17.4	21.
Ī	FH34D-9S-0.5SH(50)	-	9	7.5	5	6.03	6.88	6.6	7.4	6	4	16	_	7.5	7.8	6.5	17.4	21.
	FH34D-10S-0.5SH(50)	CL580-1270-0-50	10	8	5.5	6.53	7,38	7.1	7.9	6.5	4.5	24	_	11.5	8.3	7	25.4	29.
	FH34D-12S-0.5SH(50)	CL580-1272-0-50	12	9	6.5	7,53	8.38	8.1	8.9	7.5	5.5	24	_	11.5	9.3	8	25.4	29.
7	FH34D-14S-0.5SH(50)	CL580-1276-0-50	14	10	7.5	8.57	9.38	9.1	9.9	8.5	6.5	24	_	11.5	10.3	9	25.4	29.
7	FH34D-16S-0.5SH(50)	CL580-1277-0-50	16	M	8.5	9.57	10.38	10.1	10.9	9.5	7.5	24	_	11.5	11.3	10	25.4	29.
	FH34D-18S-0.5SH(50)	-	18	12	9.5	10.57	11.38	11.1	11.9	10.5	8.5	24	_	11.5	12.3	11	25.4	29.
Ì	FH34D-20S-0.5SH(50)	CL580-1273-0-50	20	13	10.5	11.57	12.38	12.1	12.9	11.5	9.5	24	_	11.5	13.3	12	25.4	29.
7	FH34D-24S-0.5SH(50)	CL580-1278-0-50	24	15	12.5	13.57	14.38	14.1	14.9	13.5	11.5	24	_	11.5	15.3	14	25.4	29.
7	FH34D-30S-0.5SH(50)	CL580-1279-0-50	30	18	15.5	16.53	17.38	17.1	17.9	16.5	14.5	32	28.4	14.2	18.3	17	33.4	37.
Ì	FH34D-32S-0.5SH(50)	_	32	19	16.5	17.53	18.38	18.1	18.9	17.5	15.5	32	28.4	14.2	19.3	18	33.4	37.

HR5 | DRAWING NO. | EDC-387736-50-00 | PART NO. | FH34D-\*S-0.5SH(50) | CODE NO. | CL580 | A 4 9

FORM HC0011-5-8 1 2 3 4 5

This connector features small, thin and back flip design, requiring delicate and careful handling. To prevent connector/FPC breakage and contact failure (meting failure, FPC pattern breakage, etc), read through the instructions shown below and handle the connector properly. Each values indicating here are for reference and may differ from standard value.

## Operation and Precautions

### 1. Initial condition

2. How to insert FPC

[Caution]

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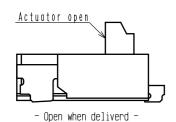
Insert it properly to the very end.

-Insert the FPC with the actuator opened.

Actuator does not have to be operated before inserting FPC. as the connector is delivered with the actuator opened.

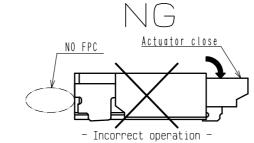
### [Caution]

- -Do not close the actuator before inserting FPC.
- Closing the actuator without FPC could make the contact gap smaller, which could increase the FPC insertion force.
- -Do not insert FPC or operate actuator before mounting.



Insert the FPC into the connector opening horizontally to the PCB plane.

-Do not twist the FPC to up and down, right and left or an angle.



3. FPC insertion check (for using contacts on the top, for FPC pattern only applicable to FH34S\*)

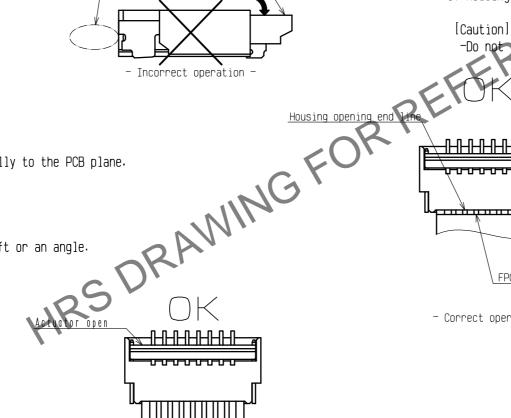
FPC (Angled insertion)

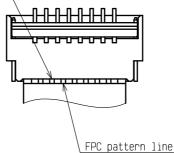
Incorrect operation modes are prevented by visual check, comparing positions of housing opening end line and FPC pattern line

- Incorrect operation

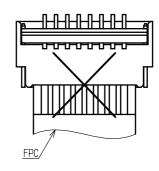
FPC (Angled insertion)

the FPC at an angle and/or stop it before insertion is completed.

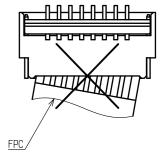








- incorrect operation -(Insufficiently inserted)

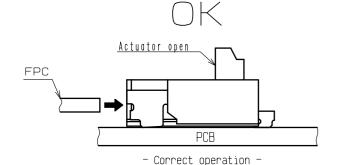


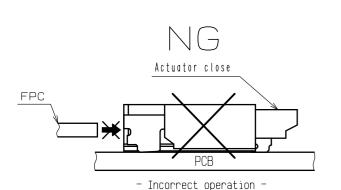
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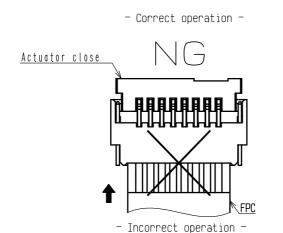
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- Incorrect operation

- Incorrect operation -(Angle insertion)

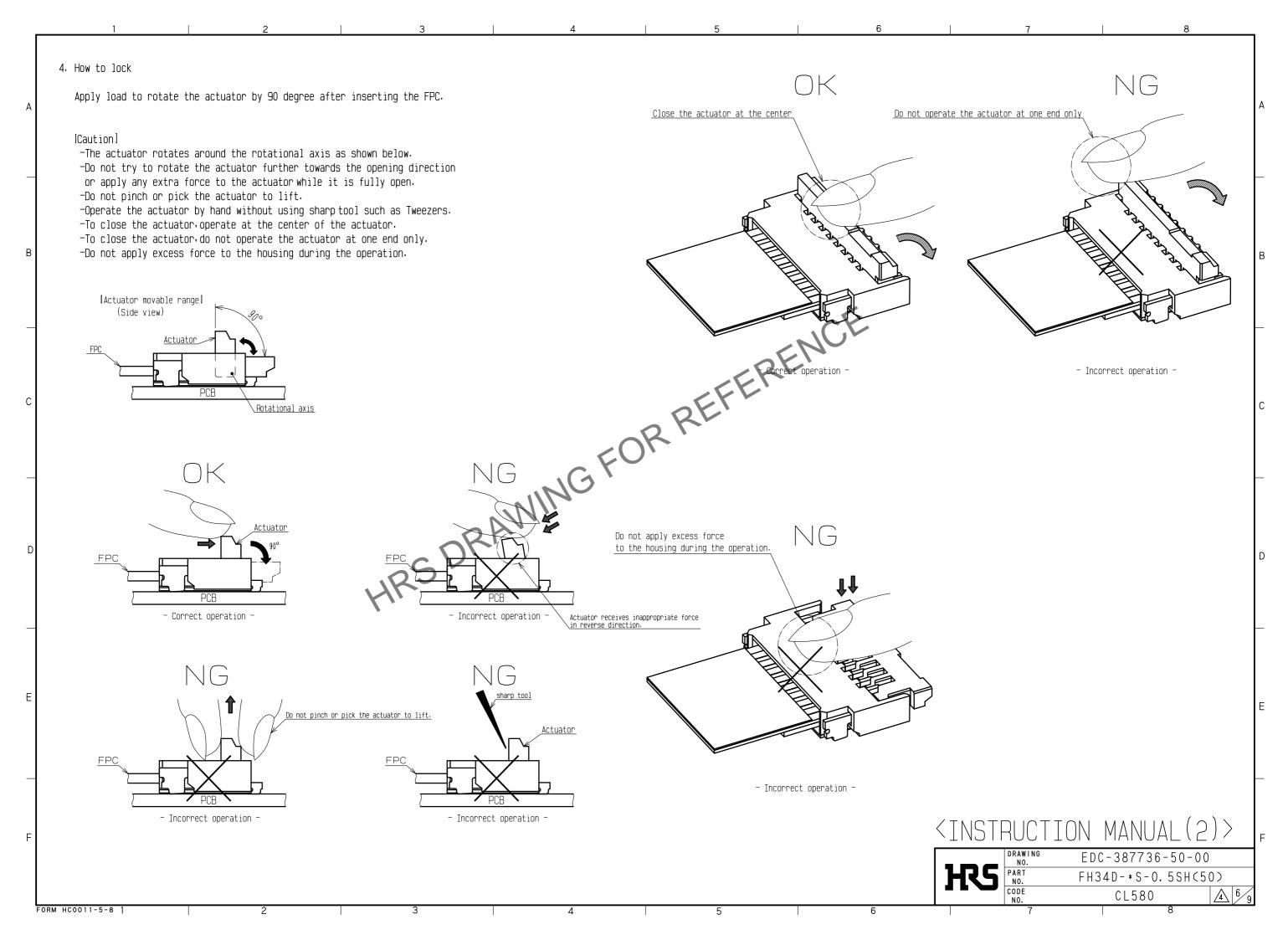


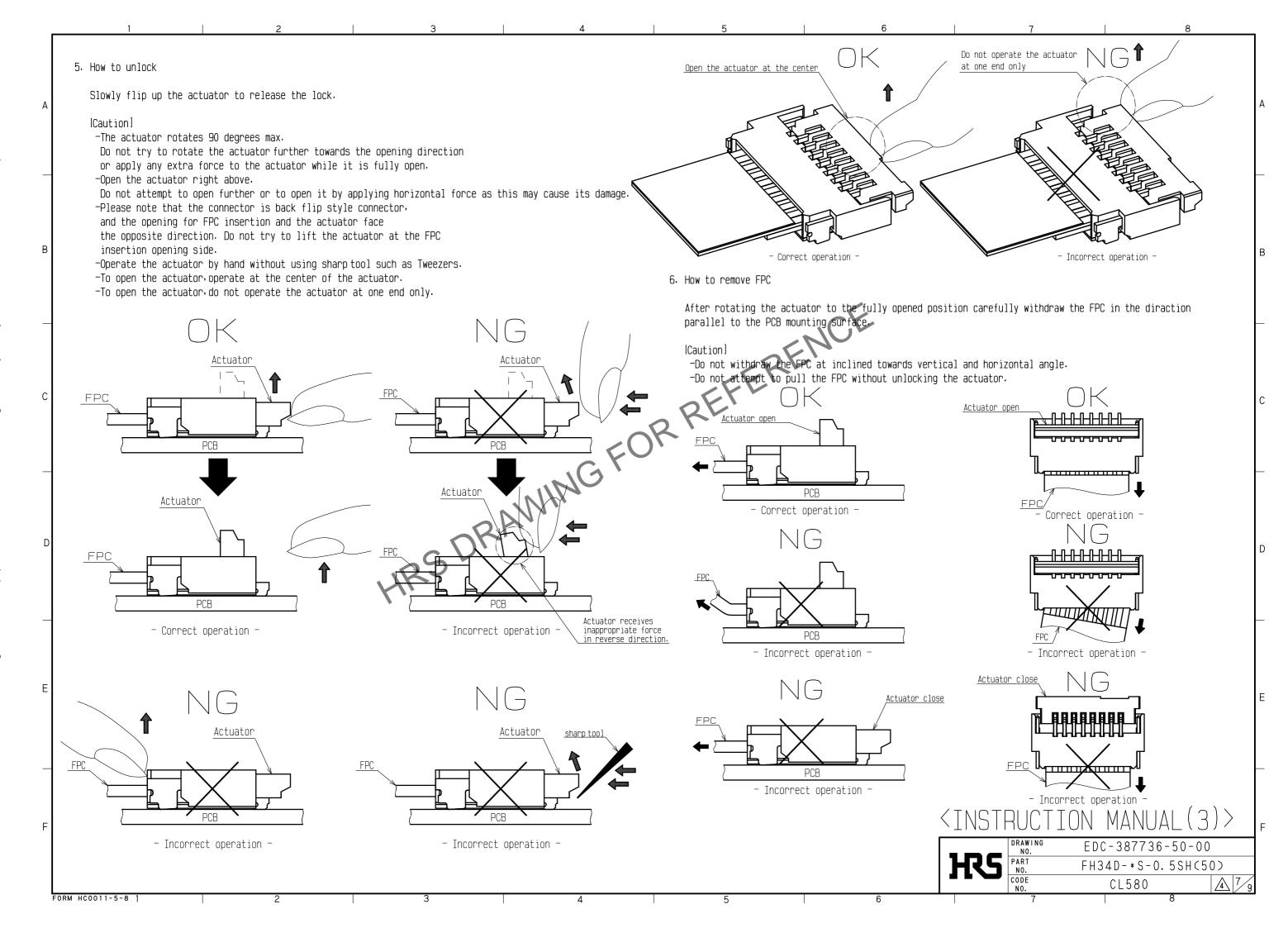






EDC-387736-50-00 HR5 PART NO. FH34D-\*S-0.5SH(50)  $|\underline{A}| \overline{5}_{\alpha}$ CL580





Instructions for mounting on the PCB [Precautions for component layout] While the FPC is under tension due to the connecting configuration. Follow the instructions shown below when mounting on the PCB. extra stress may be applied to the connector. As a result, conduction failure may occur due to the extra stress. In order to prevent such kind of conduction failure, please read through the following parts -Refer to recommended layouts on page 1 for PCB and stencil pattern. before making circuits/mechanism design. -Using either narrower land pattern or wider stencil pattern than recommendation may end up with excessive amount of solder/flux climbing on contact.

Please inspect the size of solder fillet and flux climbing height of the mounted connector while using different land/stencil pattern from our recommendation.

-Clearance between the mounting surface of the connector contact lead and the bottom of the housing is (0.03). [Caution] -Avoid applying forces to/pulling the FPC along/perpendicular to the direction of FPC insertion. Avoid pushing/pulling the FPC upwards/downwards. -If the FPC has to be curled/bended in your cabling design. please keep enough degree of freedom in your design to keep the FPC tension free. In this regard, the stiffener should be parallel to the PCB. -If the FPC has to be curled/bended in your cabling design. do not curl/bend the FPC area near the connector.
This may lead to conduction failure or FPC breakage. It is recommended to keep the FPC fixed to avoid applying stress through the FPC to the connector--Do not mount other components underneath the FPC stiffener which may interfere with the connection-В -DO not mount other components underneath the FPC stiffener which may interfere with the connFollow the recommended FPC design.

Please consult with the FPC manufacturer about FPC bending performance
and wire breakage strength while making design.

-Keep sufficient operating space for FPC insertion
during layout design in order to avoid incorrect FPC insertion.

Please keep enough FPC length and component layout space for assembly during design process. FPC with too short length may make the assembly difficult. -Keep enough space for the rotation of the actuator during PCB and component layout design. -Please consult with our sales representative if you are using FPC with different configuration from our recommendation. С 100 <u>Stiffener f</u>ilm 50 25°C (60 sec.) Ε 90 to 120 sec. (60 sec.) // Preheating Soldering PCB Start Stiffener film Time (Seconds) NG INSTRUCTION MANUAL DRAWING EDC-387736-50-00 **HS** FH34D-\*S-0.5SH(50) Component part Stiffener film CODE 4 8 9 CL580 FORM HC0011-5-8

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Instructions for PCB handling after mounting the connector

Follow the instructions shown below when mounting on the PCB.

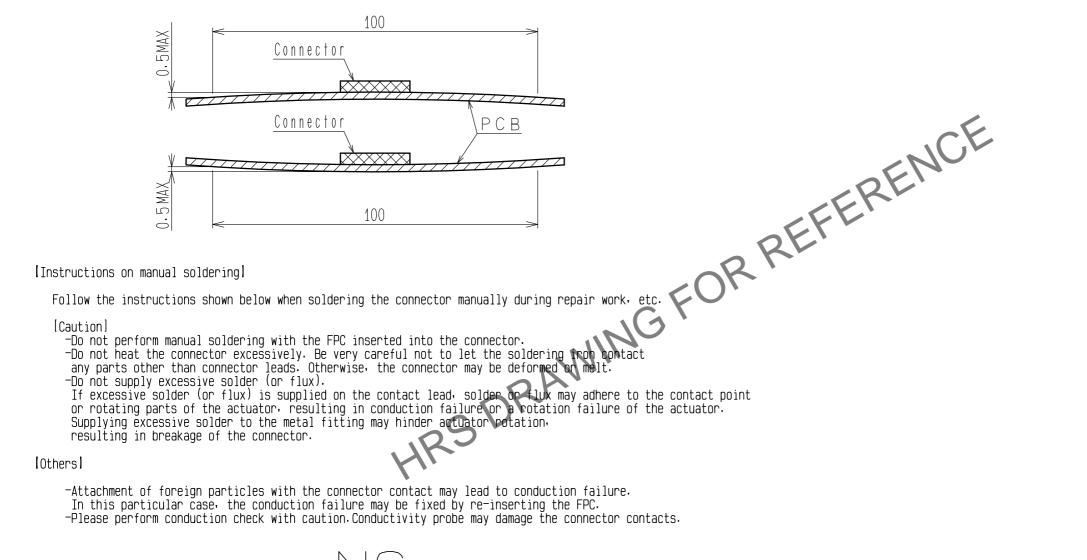
### [Caution]

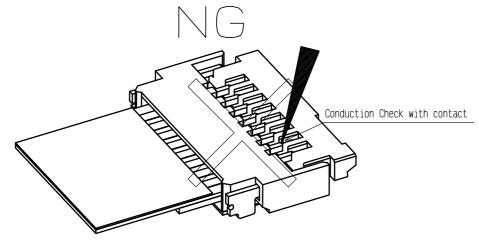
- ·Splitting a large PCB into several pieces
·Installing mounting screw on PCB

During the assembly processes described above, care shall be taken so as not to give any stresses of deflection or twisting to the PCB. Stresses applied on PCB may damage the connector as well

The warpage of a 100 mm wide PCB should remain within 0.5 mm.

The warpage of PCB may apply excessive stress on the connnector and damage the connector.





- Incorrect operation

<INSTRUCTION MANUAL(5)</pre>

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	CODE NO.	CL580	4	<u> </u>
<b>H</b> 25	PART NO.	FH34D-*S-0.5SH(5)	0)	
	DRAWING NO.	EDC-387736-50-00		

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FORM HC0011-5-8 1

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CT10252-18R-00-D CT10252-16R-00-D THD0513-08CL-GF THD0513-24CL-GF THD0513-10CL-GF THD0513-30CL-GF THD0513-