

	PART NUMBER	CODE NUMBER	NUMBER OF CONTACTS	DIMENSION OF CONNECTOR, PCB MOUNTING PATTERN, STENCIL PATTERN, FPC						DIMENSION OF DRAWING FOR PACKING				À	
				Α	В	С	D	Е	F	G	J	K	L	М	N
<u>^</u>	FH64MA-5S-0.25SHW(99)	CL580-4643-0-99	5	3.2	2	1	0.5	2.73	2.7	1.68	16	7.5	17.4	21.4	1.86
	FH64MA-7S-0.25SHW(99)	CL580-4610-0-99	7	3.7	2.5	1.5	1	3.23	3.2	2.18	16	7.5	17.4	21.4	2.36
	FH64MA-9S-0.25SHW(99)	-	9	4.2	3	2	1.5	3.73	3.7	2.68	16	7.5	17.4	21.4	2.86
	FH64MA-11S-0.25SHW(99)	CL580-4612-0-99	11	4.7	3.5	2.5	2	4.23	4.2	3.18	16	7.5	17.4	21.4	3.36
	FH64MA-13S-0.25SHW(99)	-	13	5.2	4	3	2.5	4.73	4.7	3.68	16	7.5	17.4	21.4	3.86
	FH64MA-15S-0.25SHW(99)	CL580-4608-0-99	15	5.7	4.5	3.5	3	5.23	5.2	4.18	16	7.5	17.4	21.4	4.36
	FH64MA-17S-0.25SHW(99)	_	17	6.2	5	4	3.5	5.73	5.7	4.68	16	7.5	17.4	21.4	4.86
	FH64MA-19S-0.25SHW(99)	CL580-4616-0-99	19	6.7	5.5	4.5	4	6.23	6.2	5.18	16	7.5	17.4	21.4	5.36
	FH64MA-21S-0.25SHW(99)	_	21	7.2	6	5	4.5	6.73	6.7	5.68	24	11.5	25.4	29.4	5.86
<u>^</u>	FH64MA-23S-0.25SHW(99)	-	23	7.7	6,5	5.5	5	7.23	7.2	6.18	24	11.5	25.4	29.4	6.36
<u>^</u>	FH64MA-25S-0.25SHW(99)	CL580-4642-0-99	25	8.2	7	6	5.5	7.73	7.7	6.68	24	11.5	25.4	29.4	6.86
<u>^</u>	FH64MA-31S-0.25SHW(99)	-	31	9.7	8.5	7.5	7	9.23	9.2	8.18	24	11.5	25.4	29.4	8.36

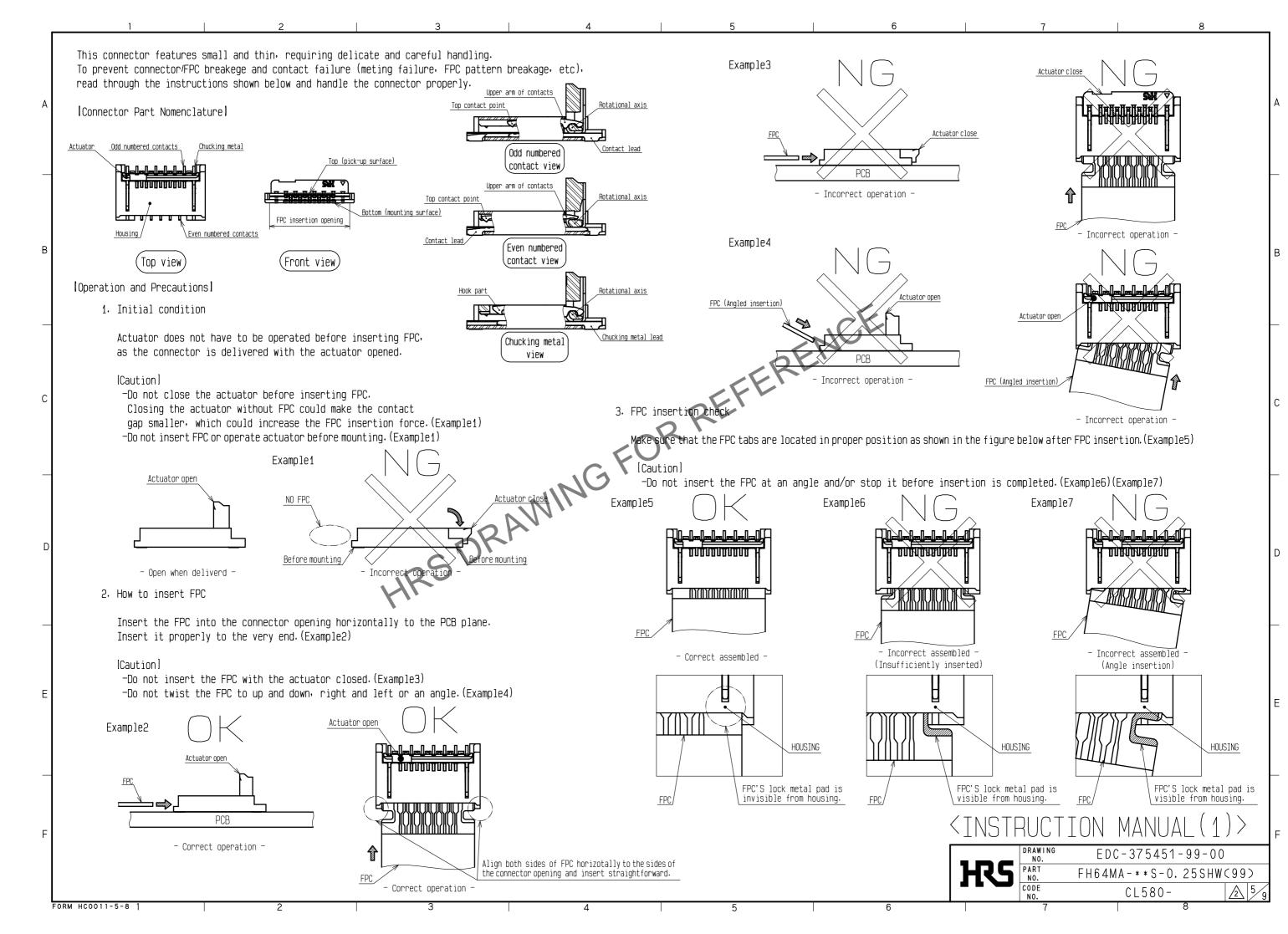
** CONTACT POSITIONS WITHOUT CODE NUMBERS ARE CURRENTLY UNDER PLANNING.

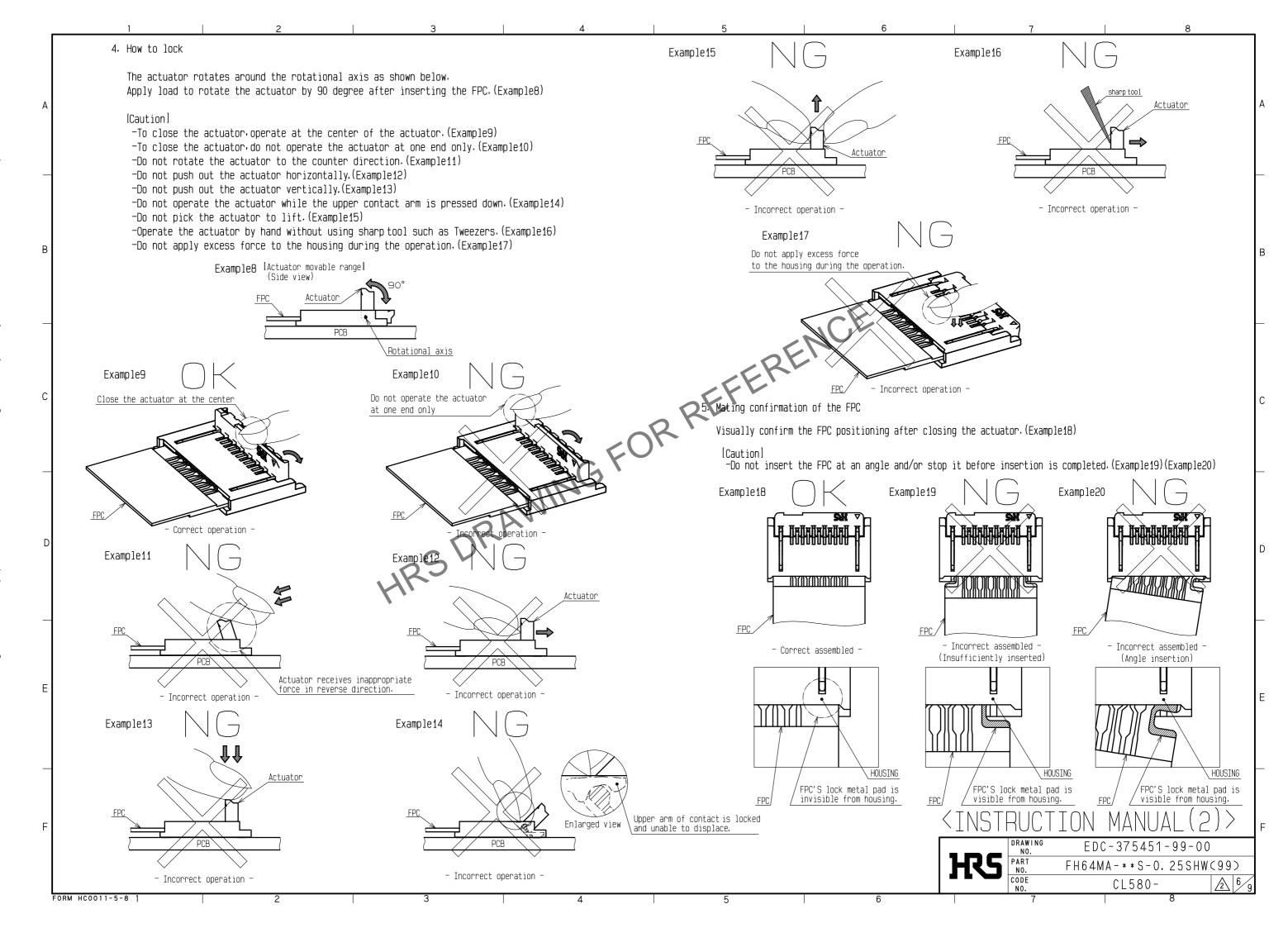
PLEASE CONTACT HIROSE FOR DETAILED INFORMATION ABOUT PRODUCT VARIATION.

<DIMENSION TABLE>

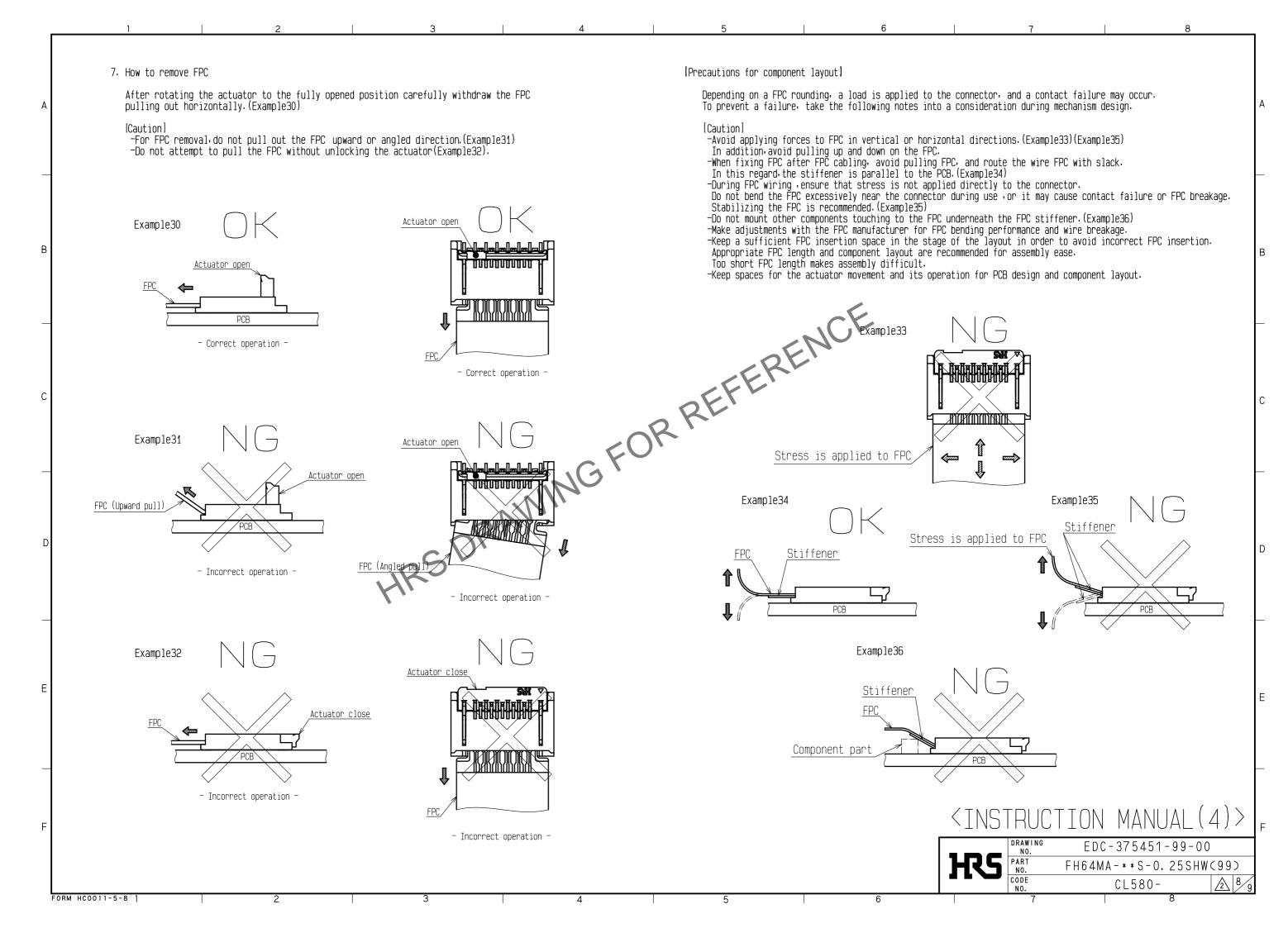
1		DRAWING NO.	EDC-375451	-99-00		
		PART NO.	FH64MA-**S-0.	25SHW	(99)
		CODE NO.	CL580-		2	4/
		7		8		

HC0011-5-8 1 2 3 4 5





6. How to unlock Slowly flip up the actuator to release the lock. (Example21) [Caution] -To open the actuator operate at the center of the actuator (Example22) -To open the actuator do not operate the actuator at one end only. (Example23) -The actuator is opened up to the movable limit, 90 degree (Example24) Example25 Do not open the actuator beyond the specified degree or apply excess force to the actuator. -Open the actuator right above. Actuator receives inappropriate force in reverse direction. Do not attempt to open further or to open it by applying horizontal force as this may cause its damage. (Example 25) -Do not pick the actuator to lift. (Example26) - Incorrect operation -Operate the actuator by hand without using sharp tool such as Tweezers. (Example27) -Do not apply excess force to the housing during the operation (Example28) -Please note that the connector is back flip style connector. Example 26 and the opening for FPC insertion and the actuator face the opposite direction. Do not try to lift the actuator at the FPC insertion opening side (Example29) Example21 Actuator is pushed into connector - Incorrect operation -Actuator Actuator Example27 Example23 Example22 PCB Open the actuator at the center - Incorrect operation - Incorrect operation -Example28 Example29 Actuator - Incorrect operation -- Correct operation -Example24 Do not apply excess force to the housing during the operation. - Incorrect operation -- Incorrect operation -EDC-375451-99-00 FH64MA-**S-0.25SHW(99) Actuator receives inappropriate force in reverse direction. CL580- Incorrect operation FORM HC0011-5-8



Instructions for mounting on the PCB Follow the instructions shown below when mounting on the PCB. [Caution] -Refer to recommended layouts on the page 1 for PCB and stencil pattern. -Shorter pattern width than the recommended PCB dimension, could cause solder wicking and/or flux penetration. -Larger pattern than the recommended stencil dimension. could cause solder wicking and/or flux penetration. -Clearance underneath the contact and the housing is very small. In case solder resist and/or silk screening are applied on PCB underneath the connector. verify the thickness, or it could push up the connector bottom and may cause soldering defect and/or insufficient fillet formation. -Apply reflow temperature profile within the specified conditions. In individual applications, the actual temperature may vary, depending on solder paste type volume/thickness and PCB size/thickness. Consult your solder paste and equipment manufacturer for specific recommendations. -Prevent warpage of PCB, where possible, since it can cause soldering failure 245 even with 0.1 mm max coplanarity. -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 pick and place the connector etc. or it may get broken. | Instructions for PCB handling after mounting the connector | Follow the instructions shown below when mounting on the PCB. [Caution] Avoid the handling described above so that no force is exerted on the PCB during the assembly process.

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. - ·Splitting a large PCB into several pieces 100 The warp of PCB suffers stress on connector and the connector may become defective. (Example 37)

Example 37

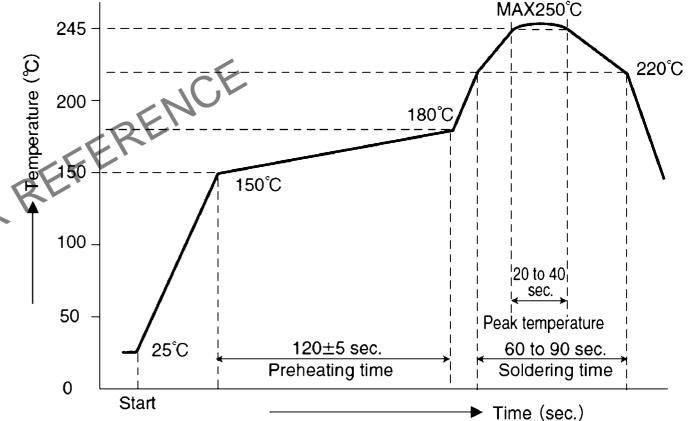
| 100 | 5 MAX 50 Connector $\dot{\circ}$ 5 MAX 0 Connector $\dot{}$ 100 Instructions on manual soldering Follow the instructions shown below when soldering the connector manually during repair work, etc. [Caution] -Do not perform manual soldering with the FPC inserted into the connector.
-Do not heat 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.

-Do not supply excessive solder (or flux). If excessive solder (or flux) is supplied on the terminals or chucking metals, 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 chucking metals may hinder actuator rotation. resulting in breakage of the connector.

⚠ |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.

Reflow method: IR reflow Number of reflow cycles:2 cycles MAX.



<INSTRUCTION MANUAL(5)>

DRAWING EDC-375451-99-00 FH64MA-**S-0.25SHW(99) CODE CL580- $\sqrt{2}$ $\sqrt{9}$

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