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DIMENSION TARLE (	NE CONNECTOR, EDO	'.FFC.I AND DATTEDN	VVID WELVI MVCK	

PART No.	CODE No.	*	А	В	С	D	J	К	L		PART No.
FH33- 6S-0.5SH(99)	CL580-1301-1-99	6	5	2.5	3.57	4, 35	3.8	4.9	3.5	1	FH33- 6S-0.5SH(
FH33- 9S-0.5SH(99)	CL580-1303-7-99	9	6.5	4	5.07	5.85	5.3	6.4	5		FH33- 9S-0.5SH(
FH33-10S-0.5SH(99)	CL580-1304-0-99	10	7	4.5	5.57	6.35	5.8	6.9	5.5		FH33-10S-0.5SH(
FH33-12S-0.5SH(99)	CL580-1302-4-99	12	8	5.5	6.57	7.35	6.8	7.9	6.5		FH33-12S-0.5SH(
FH33-14S-0.5SH(99)	CL580-1305-2-99	14	9	6.5	7.57	8.35	7.8	8.9	7.5		FH33-14S-0.5SH(
FH33-19S-0.5SH(99)	CL580-1307-8-99	19	11.5	9	10.07	10.85	10.3	11.4	10		FH33-19S-0.5SH(
FH33-20S-0.5SH(99)	CL580-1317-1-99	20	12	9.5	10.57	11.35	10.8	11.9	10.5		FH33-20S-0.5SH(
FH33-26S-0.5SH(99)	CL580-1306-5-99	26	15	12.5	13.57	14.35	13.8	14.9	13.5		FH33-26S-0.5SH(
FH33-28S-0.5SH(99)	CL580-1300-9-99	28	16	13.5	14.57	15.35	14.8	15.9	14.5		FH33-28S-0.5SH(
FH33-30S-0.5SH(99)	CL580-1312-8-99	30	17	14.5	15.57	16.35	15.8	16.9	15.5		FH33-30S-0-5SH(
FH33-32S-0.5SH(99)	CL580-1310-2-99	32	18	15.5	16.57	17.35	16.8	17.9	16.5		FH33-32S-0.5SH(
FH33-36S-0.5SH(99)	CL580-1311-5-99	36	20	17.5	18.57	19.35	18.8	19.9	18.5	< $($ )	FH33-36S-0.5SH(
FH33-40S-0.5SH(99)	CL580-1308-0-99	40	22	19.5	20.57	21.35	20.8	21.9	20.5	- Y	FH33-40S-0.5SH(
FH33-45S-0.5SH(99)	CL580-1316-9-99	45	24.5	22	23.07	23.85	23.3	24.4	23	9	FH33-45S-0.5SH(
FH33-45S-0.5SH(99) CL580-1316-9-99 45 24.5 22 23.07 23.85 23.3 24.4 23 **: NUMBER OF CONTACTS											

# DIMENSION TABLE OF DRAWING FOR PACKING

PART No.	CODE No.	*	М	IN	P	Q	R	S
FH33- 6S-0.5SH(99)	CL580-1301-1-99	6	16	7.5	<u> </u>	5.3	17.4	21.4
FH33- 9S-0.5SH(99)	CL580-1303-7-99	9	16	7.5	<b>—</b>	6.8	17.4	21.4
FH33-10S-0.5SH(99)	CL580-1304-0-99	10	16	7.5		7.3	17.4	21.4
FH33-12S-0.5SH(99)	CL580-1302-4-99	12	16	7.5		8.3	17.4	21.4
FH33-14S-0.5SH(99)	CL580-1305-2-99	14	16	7.5		9.3	17.4	21.4
FH33-19S-0.5SH(99)	CL580-1307-8-99	19	24	11.5		11.8	25.4	29.4
FH33-20S-0.5SH(99)	CL580-1317-1-99	20	24	11.5		12.3	25.4	29.4
FH33-26S-0.5SH(99)	CL580-1306-5-99	26	24	11.5		15.3	25.4	29.4
FH33-28S-0.5SH(99)	CL580-1300-9-99	28	24	11.5		16.3	25.4	29.4
FH33-30S-0-5SH(99)	CL580-1312-8-99	30	24	11.5		17.3	25.4	29.4
FH33-32S-0.5SH(99)	CL580-1310-2-99	32	32	14.2	28.4	18.3	33.4	37.4
FH33-36S-0.5SH(99)	CL580-1311-5-99	36	32	14.2	28.4	20.3	33.4	37.4
FH33-40S-0.5SH(99)	CL580-1308-0-99	40	44	20.2	40.4	22.3	45.4	49.4
FH33-45S-0.5SH(99)	CL580-1316-9-99	45	44	20.2	40.4	24.8	45.4	49.4

HRS DRAWING
NO.
PART
NO.
CODE
NO. EDC-156169-99-00 FH33-\*\*S-0.5SH(99) 3/5 CL580

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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]

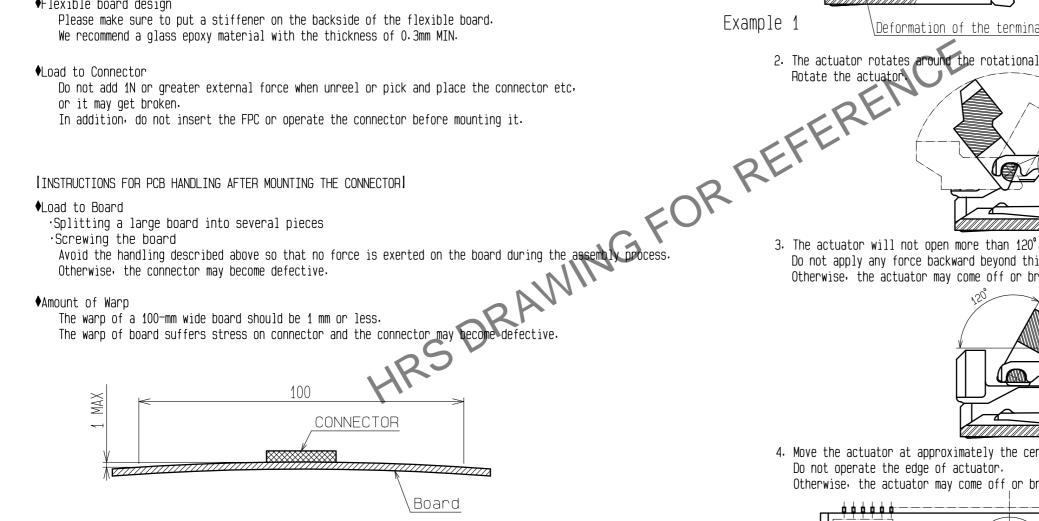
### ♦Warp of Board

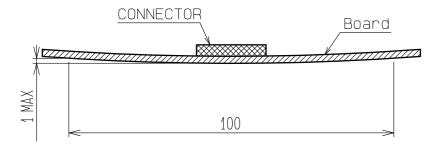
Minimize warp of the board as much as possible. Lead co-planarity including reinforced metal fittings is 0.1 mm or less. Too much warp of the board may result in a soldering failure.

# ♦Flexible board design

Please make sure to put a stiffener on the backside of the flexible board.

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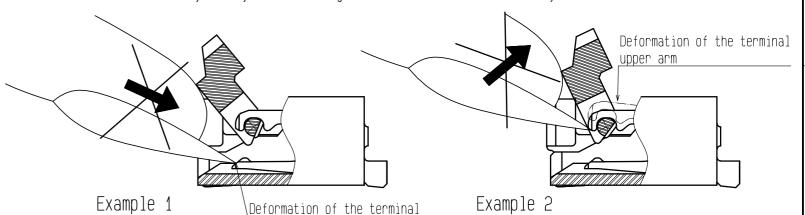




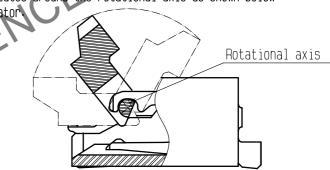
### ITNSTRUCTIONS ON INSERTING FPC AND CONNECTION!

## ♦ Use of the Actuator

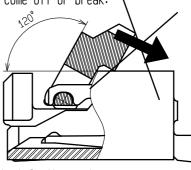
- 1. Be very careful not to apply excessive force when releasing the actuator in the initial position (with no FPC inserted).
- If you use your nail or finger as shown below, the terminals may be deformed.



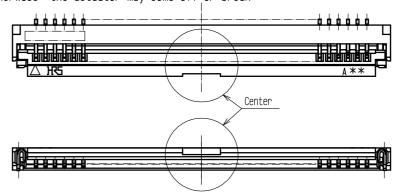
2. The actuator rotates around the rotational axis as shown below.



3. The actuator will not open more than 120°. Do not apply any force backward beyond this point. Otherwise, the actuator may come off or break.



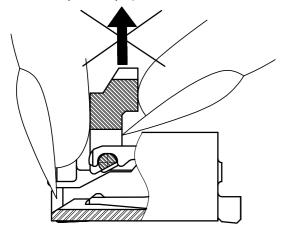
4. Move the actuator at approximately the center. Do not operate the edge of actuator. Otherwise, the actuator may come off or break.

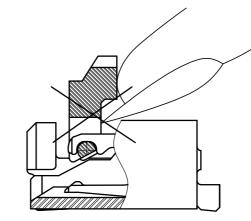


}		DRAWING NO.	EDC-156169-99-00		
	H <b>7</b> 5	PART NO.	FH33-**S-0.5SH(9)	9)	
		CODE NO.	CL580		4/5

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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.)





### ♦Direction of Contacts

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

## ♦Inserting the FPC

1. Insert the FPC horizontally along the surface and at a right angle to the connector.

INSTRUCTIONS ON REMOVEMENTED!

And its effective engagement length is 1.1 mm

Counter comminal is used).

Do not insert the FPC diagonally from above.

If the FPC is inserted at a slant (incorrectly) as shown below in the FPC insertion process the FPC may bend and patterns may break or the FPC may not insert completely.

Is sufficient FPC insertion space in the stage of the layout in order to avoid incorrect FPC is inserted at a slant insert FPC correctly all the way to the end.

In sufficient FPC insertion space in the stage of the layout in order to avoid incorrect FPC is inserted at a slant insert FPC correctly all the way to the end.

It is not difficult to insert FPC correctly all the way to the end. 2. Do not insert the FPC diagonally from above.

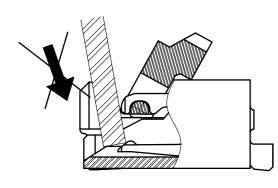
\*Keep a sufficient FPC insertion space in the stage of the layout in order to avoid incorrect FPC insertion.

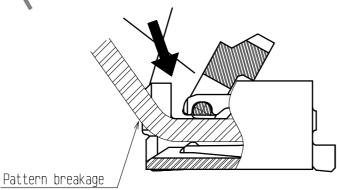
Besides, it is not difficult to insert FPC correctly all the way to the end.

Design the proper layout of parts.

\*Make adjustments with the FPC manufacturer for FPC hending parts.

\*Make adjustments with the FPC manufacturer for FPC bending perforance and wire breakage.





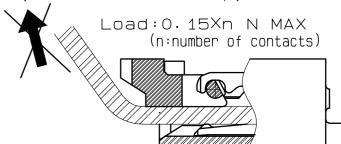
## ◆Checking the Locking Condition

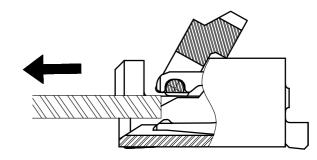
In the locked condition, make sure that the actuator is horizontal on the board surface. Do not apply excessive force to it near the 0° position of the actuator. Otherwise, the terminals may be deformed. (Allowable force: 1 N or less)

# [INSTRUCTIONS ON FPC LAYOUT AFTER CONNECTION]

## ♦Load to FPC

Be very careful not to apply any force to the FPC after inserting it. Otherwise, the connector may become unlocked or the FPC may break. Fix the FPC in particular, when loads are applied to it continuously. Design the FPC layout with care not to bend it sharply near the insertion opening.





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

- 1. Do not perform reflow soldering or manual soldering with the 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.

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 hinder actuator rotation. resulting in breakage of the connector.

HS.		DRAWING NO.	EDC	-156169	-99-00		
	<b>H</b> 75	PART NO.	FH3	3-**S-0.	5SH(9	9)	
		CODE NO.		CL580		<b></b>	5/5
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