

	△數 COUNT		正事項 N OF REVISIONS	擔當 B Y					△數 COUNT	訂正事 DESCRIPTION OF		年月 DA	
1	_	RE-5-1422		K.M.G	C.D.H	16. (05 20						
<u>/2</u> \	1	RE-5-2760		Y.G.Y	C.D.H	22.	04.11	\triangle					
\wedge								\triangle					

Standard Type 1mm PITCH

	PART NUMBER (CODE NUMBER	NUMBER OF CONTACTS -	DIMENSION OF CONNECTOR/ FPC, PCB MOUMTING PATTERN											DIMENSION OF PACKING							
PART NUMBER			А	В	(D	Е	F	G	Н	J	K	L	М	S	Ţ	U	N	Р	Q	R
TF31-6S-1SH(800)	CL 6535-0027-1-800	6S	5	7.07	9.2	10.8	8	11.8	7	8.4	1.75	1.5	2.9	1	2.9	1.5	1	24	-	11.1	11.5
TF31-8S-1SH(800)	CL 6535-0040-0-800	85	7	9.07	11.2	12.8	10	13.8	9	10.4	1.75	1.5	2.9	1	2.9	1.5	1	24	-	13.1	11.5
TF31-10S-1SH(800)	CL 6535-0041-2-800	10S	9	11.07	13.2	14.8	12	15.8	11	12.4	2	1.5	2.9	1	2.9	1.5	1	32	28.4	15.1	14.2
TF31-26S-1SH(800)	CL 6535-0051-6-800	26S	25	27.07	29.2	30.8	28	31.8	27	28.4	2	1.5	2.9	1	2.9	1.5	1	44	40.4	31.1	20.2

△ ©Eccentric Type 1mm PITCH

	3)	NUMBER OF CONTACTS -	DIMENSION OF CONNECTOR/ FPC, PCB MOUNTING PATTERN												DIMENSION OF PACKING						
PART NUMBER	CODE NUMBER		А	В	C	D	Е	F	25	Н	J	K	L	М	S	T	U	N	Р	Q	R
TF31-10(4)SA-1SH(800)	CL 6535-0043-8-800	45	3	5.57	7.7	9.3	6.5	103	5.5	6.9	1.75	1.5	2.9	1	3.4	2	1.5	16	-	9.6	7.5
TF31-32(16)SB-1SH(800)	CL 6535-0083-2-800	16 S	15	16.57	18.7	20.3	17.5	21.3	16.5	17.9	2	1	2.4	0.5	2.9	1.5	1	32	28.4	20.6	14.2
TF31-40(20)SB-1SH(800)	CL 6535-0042-5-800	20S	19	20.57	22.7	24.3	21.5	25.3	20.5	21.9	2	1	2.4	0.5	2.9	1.5	1	44	40.4	24.6	20.2
TF31-60(30)SB-1SH(800)	CL 6535-0012-4-800	30S	29	30.57	32.7	343	31.5	35.3	30.5	31.9	2	1	2.4	0.5	2.9	1.5	1	56	52.4	34.6	26.2
		HRS	, V	RA	M																
*Contact position	ons without code numbers	s are currently under plai	nning.																		

*Contact positions without code numbers are currently under planning.

Contact HIROSE for detailed information about product variation

DETAIL OF PART NO. LABEL

	Ō	면 품 표						
MODEL NAME ——	MODEL 명	TF31-**-1SH(800)						
LOT NO. —	LOT 번호							
QUANTITY —	수 량	3,000 PCS						
INSPECTOR ——	검 사 자							
SUPPLIER -	##\$ 히로세 코리아 주식회사 (취 불 행동 병원 LOT 추격의 발표 사용되었다. 현리 바랍니다.							

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											-
											1
NO.	NO. MATERIAL FINISH,REMARKS				NO.	MATERIA	AL.		FINISH,REM	ARKS]
CODE N	CODE NO. (OLD)					DESIGNED	CHECK	ED	APPROVED	RELEASED	L
						SE0 15.06.01 S.H	15.06 D.H	.01	SONG 15.06.01 H.C	ENG 22.04.13 DEPT.	
DRAWING NO.				1	PART	NO.	F31-×	*5-	1SH (800)		F
1:1 UNITS	1.1 IBC HROSE KOREA COLLED				CODE NO					3/5	7

This connector requires delicate and careful handing. Read through the instructions shown below and 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 Minmize warp of the board as possible Lead co-planarity including reinforced metal fitting is 0.1mm or less Too much warp of the board may result in a soldering.

◆ Load to Connector Do not apply a force of 0.5N or more to the connector before mounting it on the board. Otherwise, the connector may be broken. Do not warp the FPC or operate the connector before mounting it.

◆ Load to board

*Splitting a large board into seveal pieces

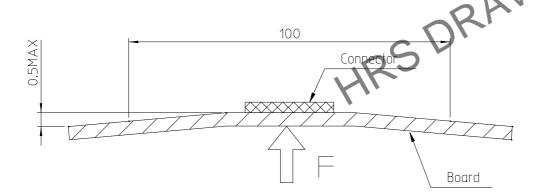
*Screwing the board

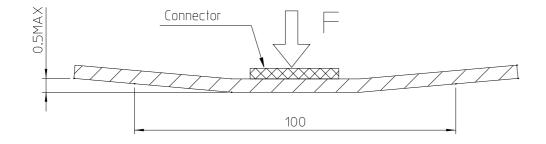
Avoid the handling described above so that no force is exerted on the board during the assembly process. Otherwise, the connector may become defective.

◆ Amount of Warp

The warp of a 100-mm wide board should be 0.5mm or less.

The warp of board suffers stress on connector and connector may become defective.



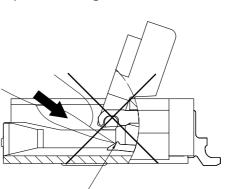


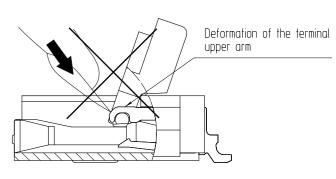
[INSTRUCTIONS ON INSERTING FFC/FPC AND CONNECTOR]

Use of the Actuator

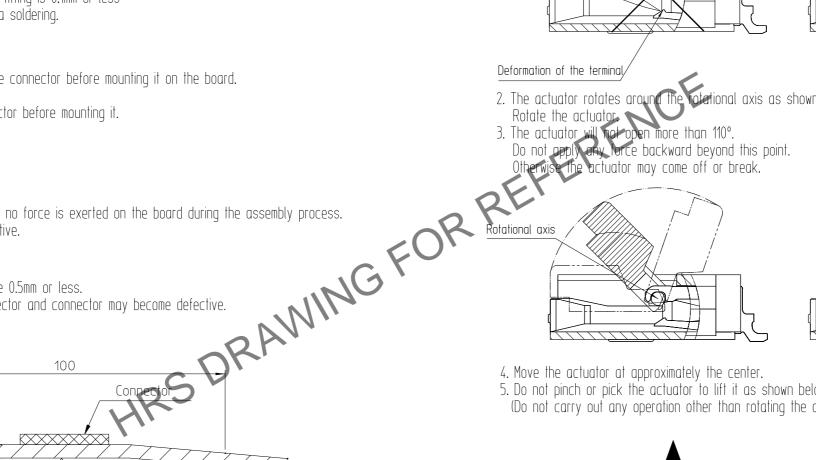
1. Be very careful not to apply excessive force when releasing the Actuator. in the initial position

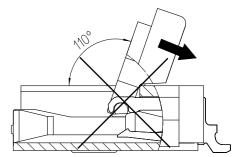
if you use your nail or finger as shown, the terimals may be deformed.



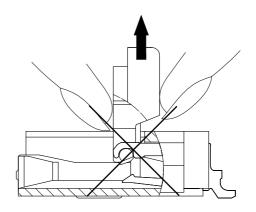


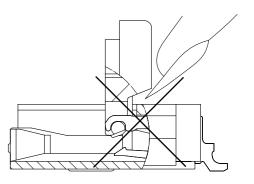
- 2. The actuator rotates around the rotational axis as shown below.





- 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.)





<INSTRUCTION MANUAL(1)>

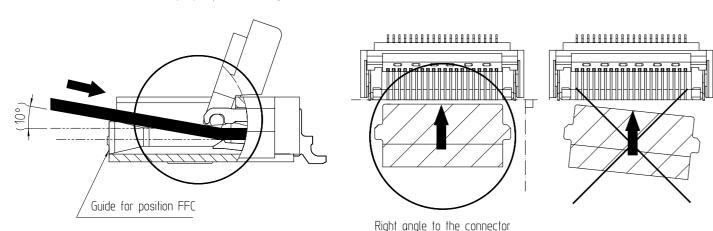
DRAWING NO.	PART NO.	TF31-**S-1SH(800)	
HS HIROSE KOREA CO.,LTD.	CODE NO.	3>	4/5

◆ Direction of Contacts

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

◆ Inserting the FFC/FPC

1. Insert the FFC/FPC by about 10 degrees along the surface and at a right angle to the connector. Insert it properly to the very end.



2. Do not insert the FFC/FPC diagonally from above.

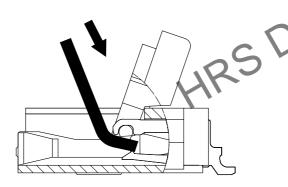
resulting in improper conduction.

* Keep a sufficient FPC/FFC insertion space in the stage of the layout in order to avoid incorrent FPC/FFC insertion.

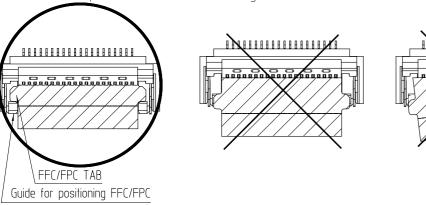
Besides, it is not difficult to insert FFC/FPC correctly all the way to the end.

Design the proper layout of parts.

* Make adjustments with the FFC/FPC manufacturer for bending perfomance and breakage.



3. Do not rotate the actuator when FFC/FPC TAB is on right and left guides for positioning FFC/FPC. Make sure the position of FFC/FPC TAB and guides before rotate the actuator.



◆ 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.

[INSTRUCTION ON FFC/FPC LAYOUT AFTER CONNECTOR]

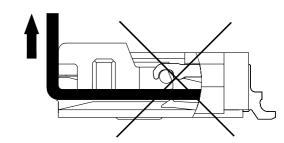
◆Load to FFC/FPC

Be very careful not to apply any force to the connector directly after inserting FFC/FPC. Otherwise the connector may become unlocked or the FFC/FPC may break.

In particular design the FFC/FPC layout with care not to bend it sharply upward in a vertical direction near the insertion opening.

Fix the FFC/FPC when loads are applied to it continuously.

Load: 0.1 x n N MAX (n: number of can



Remove the FFC/FPC by about 10degrees along the surface. Guide for position FFC

◆Instruction on Manual Solderina

Follow the instructions shown when soldering the connector manually during repair work, etc. 1. Do not perform reflow soldering or manual soldering with the FFC/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.
- 3. Do not use excessive solder(or flux)

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 lock hinder Actuator. resulting in breakage of the connector.

<INSTRUCTION MANUAL(2)>

DRAWING NO.	PART NO.		
		TF31-**S-1SH(800)	
HS HIROSE KOREA CO.,LTD.	CODE NO.	3>	5 / 5