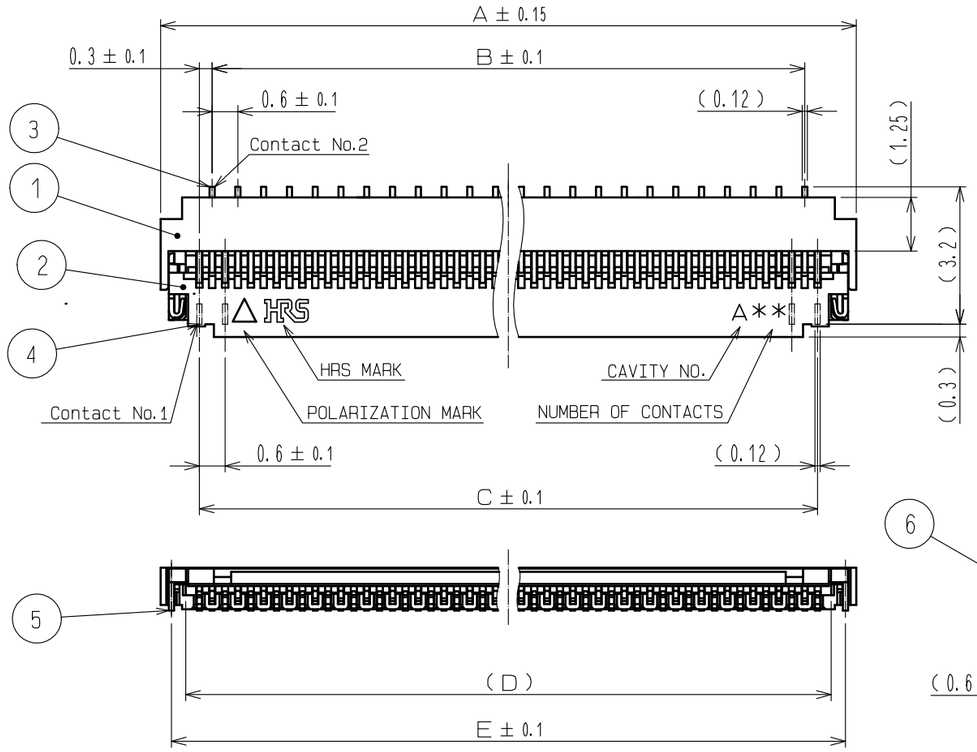
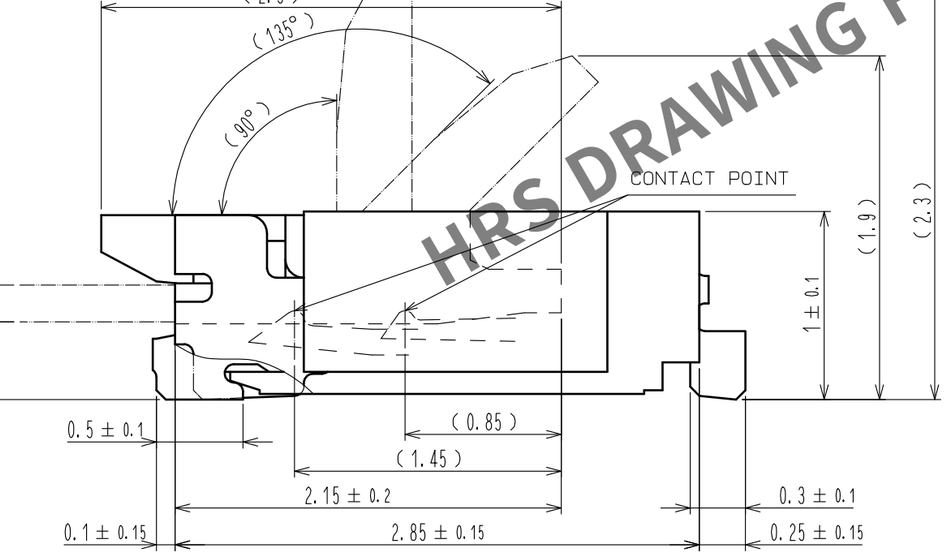
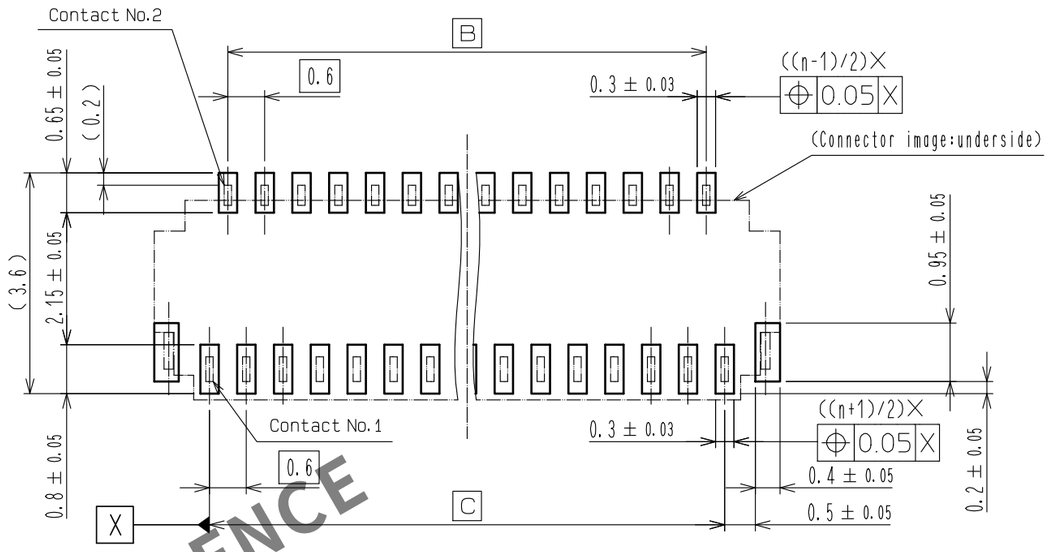


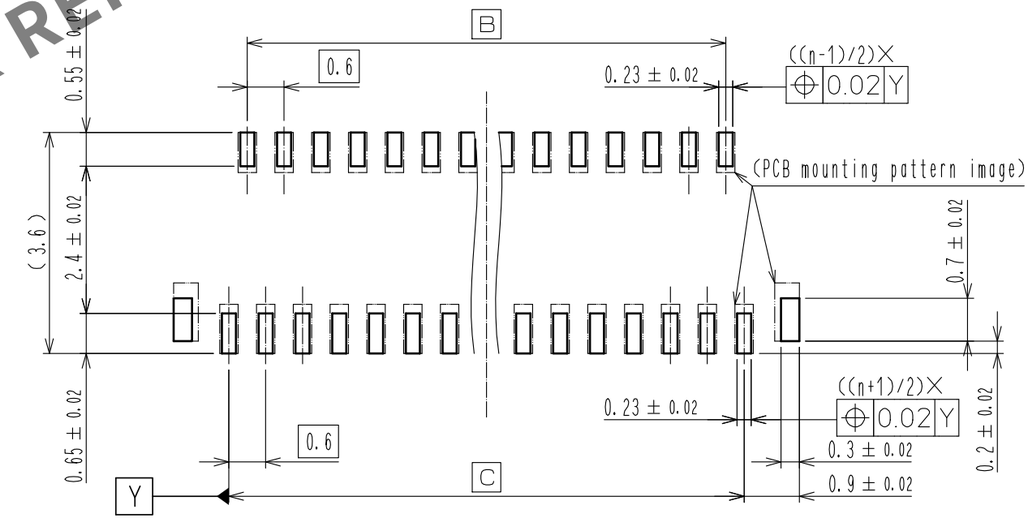


RECOMMENDED PCB MOUNTING PATTERN (10 : 1)



RECOMMENDED STENCIL PATTERN (10 : 1)

(RECOMMENDED STENCIL THICKNESS : t=0.1)



NOTE
1. THE DIMENSIONS IN PARENTHESES ARE FOR REFERENCE.
2. LEAD CO-PLANARITY INCLUDING REINFORCED METAL FITTINGS SHALL BE 0.1 MAX.
3. TO BE DELIVERED WITH TAPE AND REEL PACKAGES.
   SEE ATTACHED PACKAGING SPECIFICATIONS FOR DETAILS.
4. NOTE THAT PREVENTIVE HOLE FOR SINK MARK COULD BE ADDED FOR IMPROVEMENT.
   THE QUALITY REMAINS GOOD, EVEN WITH THE DARK SPOTS, WHICH COULD OCCASIONALLY OCCUR ON MOLDED PLASTIC.
5. THIS PRODUCT SATISFIES HALOGEN FREE REQUIREMENTS DEFINED AS 900ppm MAXIMUM CHLORINE, 900ppm MAXIMUM BROMINE, AND 1500ppm MAXIMUM TOTAL OF CHLORINE AND BROMINE.
6. 'n' REPRESENTS THE NUMBER OF CONTACTS.

NO.	MATERIAL	FINISH , REMARKS
4	PHOSPHOR BRONZE	(CONTACT AREA, LEAD)GOLD PLATING 0.03μmMIN OVER NICKEL 1μmMIN (OTHER)NICKEL PLATING 1μmMIN
3	PHOSPHOR BRONZE	(CONTACT AREA, LEAD)GOLD PLATING 0.03μmMIN OVER NICKEL 1μmMIN (OTHER)NICKEL PLATING 1μmMIN
2	PA	LIGHT BROWN UL94HB
1	LCP	BLACK UL94V-0

NO.	MATERIAL	FINISH , REMARKS
10	(CONNECTOR)	
9	POLYSTYRENE	
8	POLYESTER	
7	POLYSTYRENE	
6	PHOSPHOR BRONZE (PLATED MATERIAL)	TIN PLATING(REFLOW FINISHED) 1μm MIN OVER COPPER 0.5μmMIN
5	PHOSPHOR BRONZE (PLATED MATERIAL)	TIN PLATING(REFLOW FINISHED) 1μm MIN OVER COPPER 0.5μmMIN

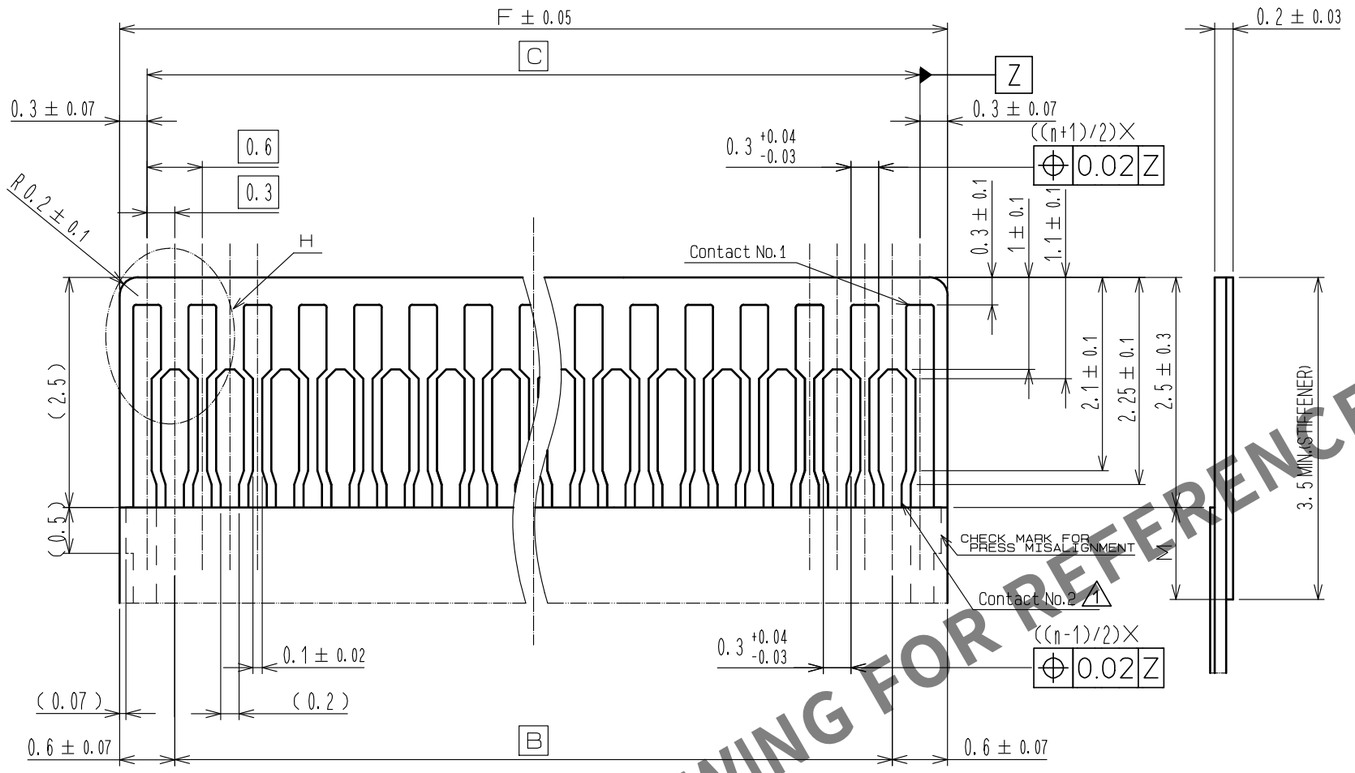
UNITS	SCALE		COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
mm	7 : 1	⚠1	2	DIS-F-00006069	ST.YUDATE	HS.HIRAHARA	20200428

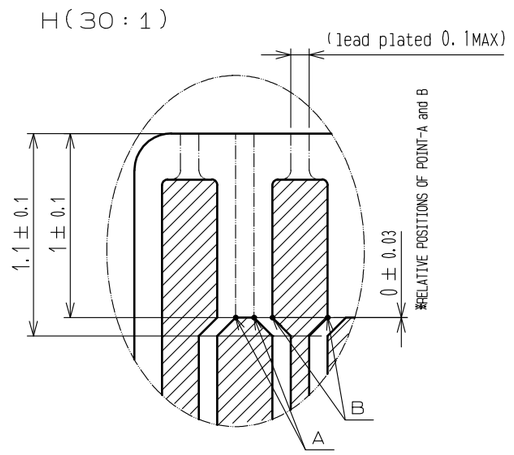
HIROSE ELECTRIC CO., LTD.

APPROVED	MO.ISHIDA	20140415	DRAWING NO. EDC3-323714-05
CHECED	HS.SAKAMOTO	20140415	PART NO. FH26W-**S-0.3SHW(60)
DESIGNED	SG.MASAKI	20140415	CODE NO. CL580 ⚠1 1/6
DRAWN	NM.SANPEI	20140414	

RECOMMENDED FPC(FREE)

(SCALE:FREE)

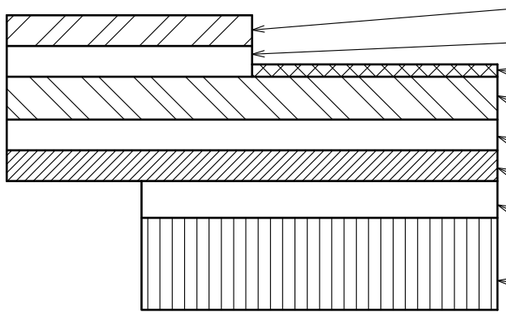




DIMENSION M MUST BE 0.5mm MINIMUM WHEN THE STIFFENER IS SHORTER THAN 3.5mm.

FPC CONFIGURATION (REFERENCE EXAMPLE)

(SCALE:FREE)

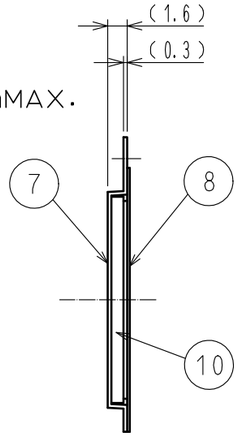


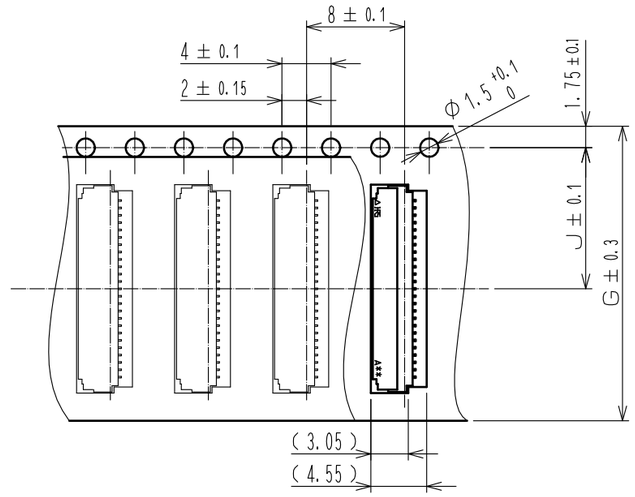
MATERIAL NAME	MATERIAL	THICKNESS(μm)
COVERING FILM LAYER.	POLYIMIDE 1mil thick.	25
COVER ADHESIVE		25
SURFACE TREATMENT	1 μm TO 5μm NICKEL UNDERPLATED 0.2 μm GOLD PLATED.	(3)
COPPER FOIL	Cu 1 oz	35
BASE ADHESIVE	HEAT-HARDENED ADHESIVE	25
BASE FILM	POLYIMIDE 1mil thick	25
REINFORCEMENT MATERIAL ADHESIVE	HEAT-HARDENED ADHESIVE	40
STIFFENER	POLYIMIDE 3mil thick	75

HRS	DRAWING NO.	EDC3-323714-05
	PART NO.	FH26W-**S-0.3SHW(60)
	CODE NO.	CL580
		1 / 2/6

EMBOSSED CARRIER TAPE DIMENSION (2:1)

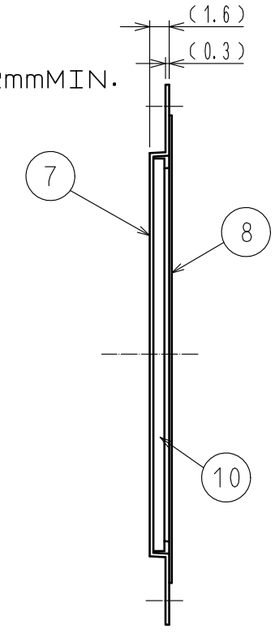
●24mmMAX.

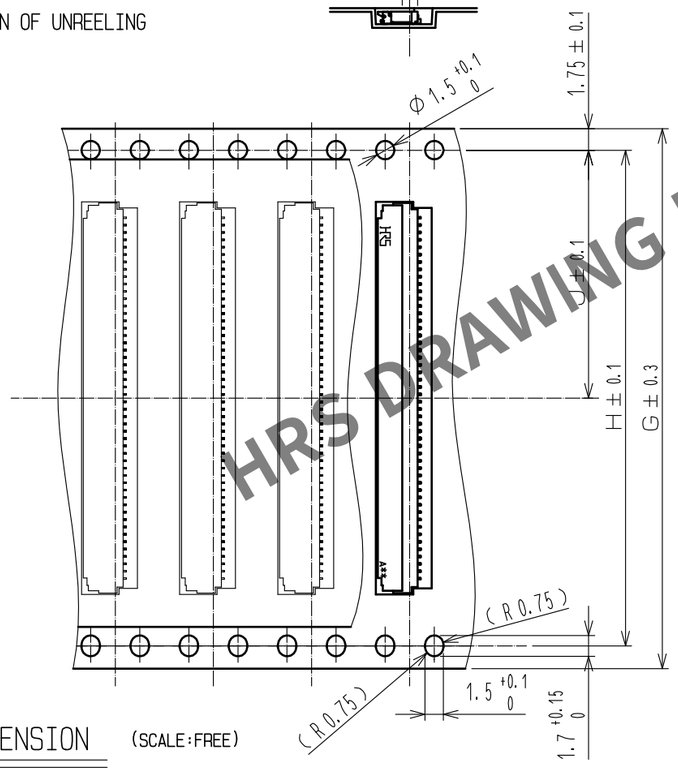




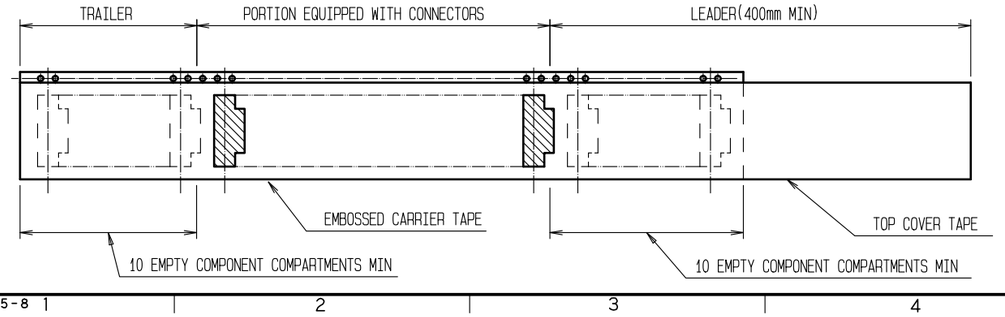
DIRECTION OF UNREELING

●32mmMIN.

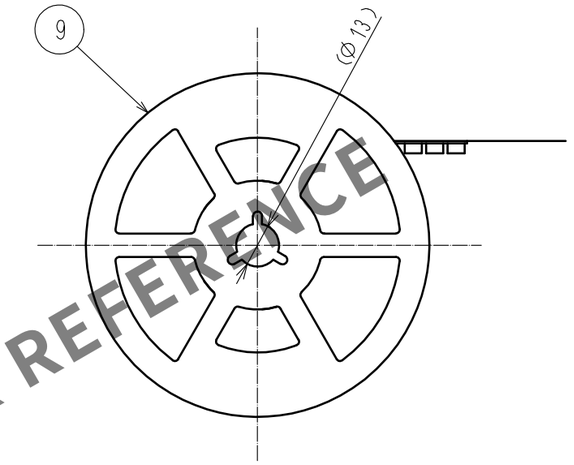


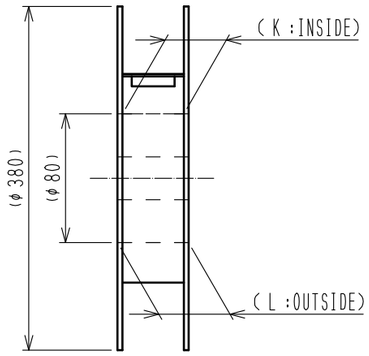


LEADER, TRAILER DIMENSION (SCALE:FREE)



REEL DIMENSION (FREE)





NOTE 7 PER REEL : 5000 CONNECTORS.
⚠1 8 REFER TO JIS C 0806 and IEC 60286-3 (PACKAGING OF COMPONENTS FOR AUTOMATIC HANDLING.)

HRS	DRAWING NO.	EDC3-323714-05
	PART NO.	FH26W-**S-0.3SHW(60)
	CODE NO.	CL580 ⚠1 3/6

PART NUMBER	CL	NUMBER OF CONTACT	DIMENSION OF CONNECTOR, FPC PATTERN AND METAL MASK						DIMENSION OF DRAWING FOR PACKING				
			A	B	C	D	E	F	G	H	J	K	L
FH26W-13S-0.3SHW(60)	CL580-2401-1-60	13	5.4	3.0	3.6	4.23	4.9	4.2	16	—	7.5	17.4	21.4
FH26W-15S-0.3SHW(60)	CL580-2402-4-60	15	6.0	3.6	4.2	4.83	5.5	4.8	16	—	7.5	17.4	21.4
FH26W-17S-0.3SHW(60)	CL580-2403-7-60	17	6.6	4.2	4.8	5.43	6.1	5.4	16	—	7.5	17.4	21.4
FH26W-19S-0.3SHW(60)	CL580-2437-9-60	19	7.2	4.8	5.4	6.03	6.7	6.0	16	—	7.5	17.4	21.4
FH26W-21S-0.3SHW(60)	CL580-2404-0-60	21	7.8	5.4	6.0	6.63	7.3	6.6	16	—	7.5	17.4	21.4
FH26W-23S-0.3SHW(60)	CL580-2405-2-60	23	8.4	6.0	6.6	7.23	7.9	7.2	16	—	7.5	17.4	21.4
FH26W-25S-0.3SHW(60)	CL580-2406-5-60	25	9.0	6.6	7.2	7.83	8.5	7.8	16	—	7.5	17.4	21.4
FH26W-27S-0.3SHW(60)	CL580-2400-9-60	27	9.6	7.2	7.8	8.43	9.1	8.4	16	—	7.5	17.4	21.4
FH26W-29S-0.3SHW(60)	CL580-2407-8-60	29	10.2	7.8	8.4	9.03	9.7	9.0	24	—	11.5	25.4	29.4
FH26W-31S-0.3SHW(60)	CL580-2408-0-60	31	10.8	8.4	9.0	9.63	10.3	9.6	24	—	11.5	25.4	29.4
FH26W-33S-0.3SHW(60)	CL580-2409-3-60	33	11.4	9.0	9.6	10.23	10.9	10.2	24	—	11.5	25.4	29.4
FH26W-35S-0.3SHW(60)	CL580-2410-2-60	35	12.0	9.6	10.2	10.83	11.5	10.8	24	—	11.5	25.4	29.4
FH26W-37S-0.3SHW(60)	CL580-2411-5-60	37	12.6	10.2	10.8	11.43	12.1	11.4	24	—	11.5	25.4	29.4
FH26W-39S-0.3SHW(60)	CL580-2412-8-60	39	13.2	10.8	11.4	12.03	12.7	12.0	24	—	11.5	25.4	29.4
FH26W-41S-0.3SHW(60)	CL580-2413-0-60	41	13.8	11.4	12.0	12.63	13.3	12.6	24	—	11.5	25.4	29.4
FH26W-45S-0.3SHW(60)	CL580-2414-3-60	45	15.0	12.6	13.2	13.83	14.5	13.8	24	—	11.5	25.4	29.4
FH26W-51S-0.3SHW(60)	CL580-2415-6-60	51	16.8	14.4	15.0	15.63	16.3	15.6	24	—	11.5	25.4	29.4
FH26W-55S-0.3SHW(60)	CL580-2416-9-60	55	18.0	15.6	16.2	16.83	17.5	16.8	32	28.4	14.2	33.4	37.4
FH26W-57S-0.3SHW(60)	CL580-2417-1-60	57	18.6	16.2	16.8	17.43	18.1	17.4	32	28.4	14.2	33.4	37.4
FH26W-61S-0.3SHW(60)	CL580-2418-4-60	61	19.8	17.4	18.0	18.63	19.3	18.6	32	28.4	14.2	33.4	37.4
FH26W-71S-0.3SHW(60)	CL580-2419-7-60	71	22.8	20.4	21.0	21.63	22.3	21.6	44	40.4	20.2	45.4	49.4

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.

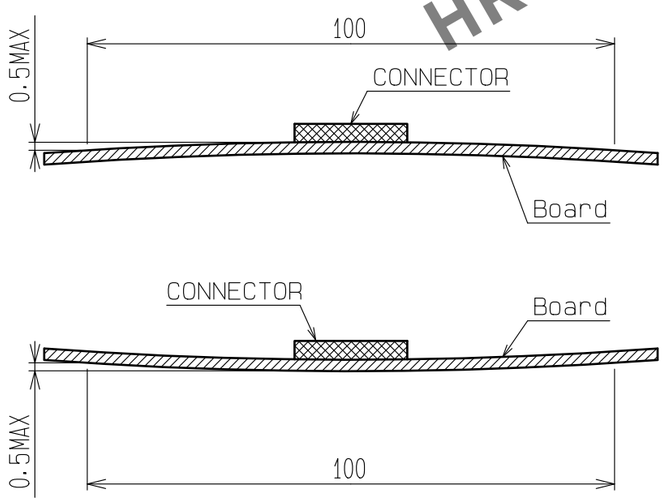
♦Flexible board design
Please make sure to put a stiffener on the backside of the flexible board.
We recommend a glass epoxy material with the thickness of 0.3mm MIN.

♦Load to Connector
Do not add 0.5N or greater external force when unreel or pick and place the connector etc.
or it may get broken.
In addition, do not insert the FPC or operate the connector before mounting it.

[INSTRUCTIONS FOR PCB HANDLING AFTER MOUNTING THE CONNECTOR]

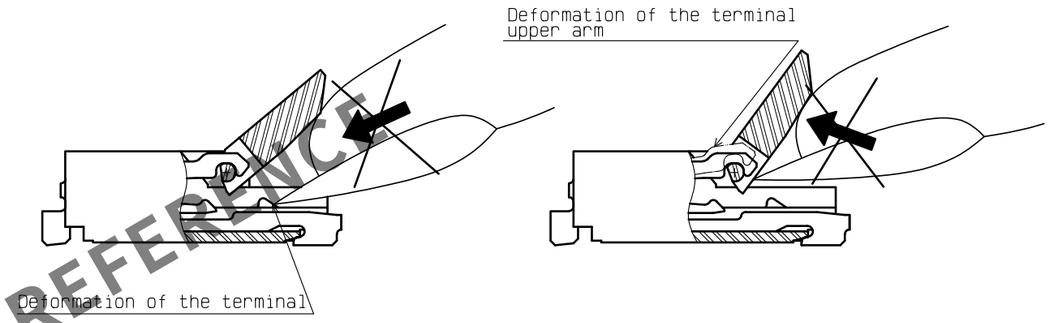
♦Load to Board
·Splitting a large board into several pieces
·Screwing the board
Avoid the handling described above so that no force is exerted on the board during the assembly process.
Otherwise, the connector may become defective.

♦Amount of Warp
The warp of a 100-mm wide board should be 0.5 mm or less.
The warp of board suffers stress on connector and the connector may become defective.

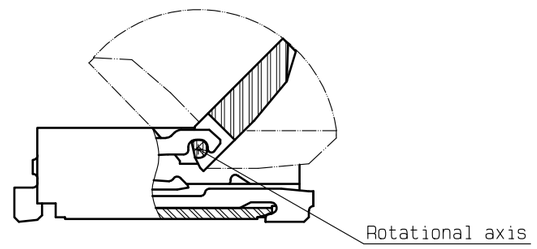


[INSTRUCTIONS ON INSERTING FPC AND CONNECTION]

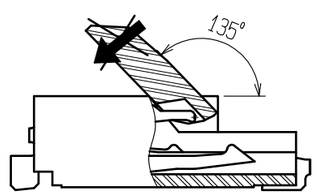
♦ Use of the actuator
1. Be very careful not to apply excessive force when releasing the actuator in the initial position (with no FPC inserted).
If you use your nail or finger as shown below, the terminals may be deformed.



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

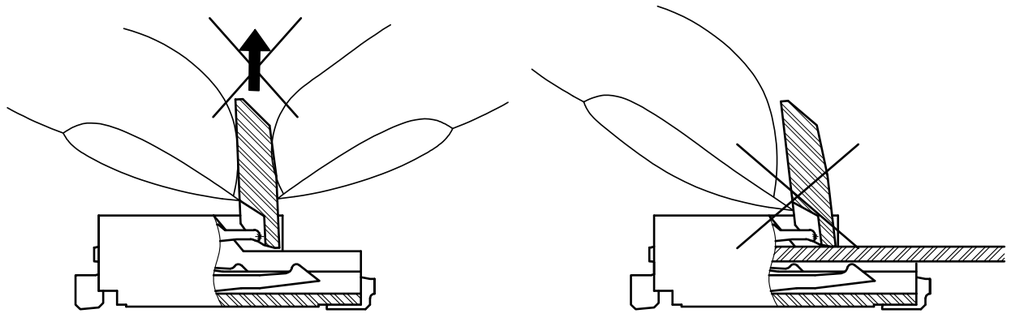


3. The actuator will not open more than 135°.
Do not apply any force backward beyond this point.
Otherwise, the actuator may come off or break.



DRAWING NO.	EDC3-323714-05
PART NO.	FH26W-**S-0.3SHW(60)
CODE NO.	CL580

4. Move the actuator at approximately the center.
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.)



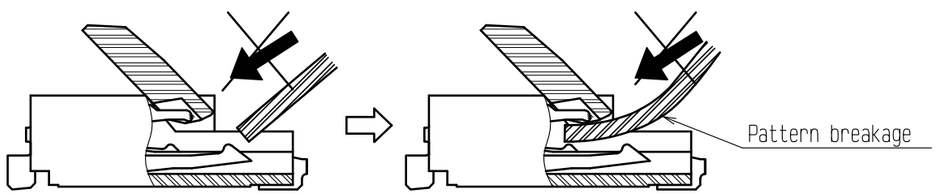
♦Direction of Contacts
This connector has contacts on the bottom. Thus, insert the FPC with the exposed conductors face down.

♦Inserting the FPC
1. Insert the FPC horizontally along the surface and at a right angle to the connector.
   Insert it properly to the very end.
   If the FPC is inserted at a slant (incorrectly),
   the conductors may short-circuit due to pitch shift or the edge of the FPC may catch in the terminals,
   resulting in deformation of the terminals.
   This connector has a ZIF structure, and its effective engagement length is 0.35 mm
   (when the recommended FPC nominal is used).
   Use the actuator carefully to prevent the FPC from dislocating after inserting it.

2. 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,
   resulting in improper conduction.

※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.

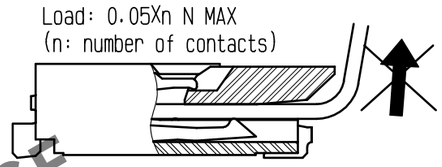
※Make adjustments with the FPC manufacturer for FPC bending perfomance and wire breakage.



♦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)

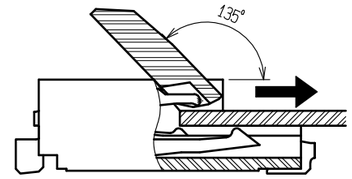
【INSTRUCTIONS ON FPC LAYOUT AFTER CONNECTION】

♦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.



【INSTRUCTIONS ON REMOVING FPC】

♦Release the actuator to remove the FPC.



♦Instructions on Manual Soldering
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.
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 hinder actuator rotation,
   resulting in breakage of the connector.

HRS	DRAWING NO.	EDC3-323714-05
	PART NO.	FH26W-**S-0.3SHW(60)
	CODE NO.	CL580
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