APPLICA	BLE STAND	ARD								
OPERATING TEMPERATURE		RANGE	-55°C TO +85°C STORAGE TEMPERATURE RAN		Ture range	-10°C TC	O +50°C(PACKED CONDITION)			
RATING VOLTAGE			30V AC/DC	OPERATIN HUMIDITY	G OR STORAGE RANGE	RELATIVE	DEWED)			
	CURRENT		0.2A	APPLICAB	LE CABLE	t=0.2±0.0				
			SPE	CIFICA	ATIONS					
I	TEM		TEST METHOD			REQ	UIREMENTS	QT	АТ	
CONSTR	UCTION									
GENERAL E	XAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.				DING TO DRA	AWING.	×	×	
MARKING		CONFIRMED VISUALLY.				1				
ELECTRI	C CHARAC	TERIST	ICS							
VOLTAGE P	ROOF	90V AC F	OR 1 min.		NO FLA	SHOVER OR	BREAKDOWN.	×	×	
INSULATION	I RESISTANCE	100V DC.			50MΩ N	1IN.		×	×	
CONTACT F	RESISTANCE	AC 20mV	MAX (1KHz), 1mA.		100m Ω	MAX.		×	×	
					INCLUD	ING FPC BUL	K RESISTANCE (L=12mm)			
MECHAN	ICAL CHAR	ACTER	ISTICS							
VIBRATION		FREQUE	NCY 10 TO 55 Hz, HALF AM		10	ELECTRICAL	DISCONTINUITY OF 1 μ s.	×	Τ.	
SHOCK		0.75 mm FOR 10 CYCLES IN 3 AXIAL DIRECTIONS. 981 m/s², DURATION OF PULSE 6ms AT 3 TIMES				② CONTACT RESISTANCE: 100mΩ MAX. ③ NO DAMAGE, CRACK AND LOOSENESS				
SHOOK		1	H AXIAL DIRECTIONS.	IS AT 3 TIIV	-	PARTS.	NON AND EGGGENEGG	×	-	
MECHANICA	L OPERATION	10 TIMES INSERTIONS AND EXTRACTIONS.				① CONTACT RESISTANCE: 100mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.				
FPC RETEN	TION FORCE	MEASURED BY APPLICABLE FPC. (THICKNESS OF FPC SHALL BE t=0.20mm			DIRECT	DIRECTION OF INSERTION: 0.15 N×n MIN. (note 1)				
	INACNITAL O		L CONDITION.)							
	IMENTAL C		TERISTICS DAT 35±2°C, 5% SALT WA	TER SPRA	Y 10 CON	ITACT RESIS	TANCE: 100m Ω MAX.	T		
	COALT MIST	FOR 96h.			2 NO OF F 3 NO	NO DAMAGE, CRACK AND LOOSENESS OF PARTS. NO EVIDENCE OF CORROSION WHICH AFFECTS TO OPERATION OF CONNECTOR.				
RAPID CHAI	NGE OF	TEMPERATURE -55→+15 TO +35→+85→+15 TO +35 °C				① CONTACT RESISTANCE: 100mΩ MAX.				
TEMPERATURE		TIME 30 \rightarrow 2 TO 3 \rightarrow 30 \rightarrow 2 TO 3 min UNDER 5 CYCLES.			-	② INSULATION RESISTANCE: $50M\Omega$ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS				
DAMP HEAT		EXPOSED AT 40±2°C,				OF PARTS.				
(STEADY ST	ATE)	RELATIVE HUMIDITY 90 TO 95%, 96h.						×	<u> </u>	
COUN	COUNT DESCRIPTION OF REVISIONS DES				DESIGNED	SIGNED CHECKED			ATE	
Ø	<u>^</u>									
REMARK		1				APPROVED	MO.ISHIDA		7.09	
						CHECKED	HS.SAKAMOTO	13.0	7.09	
						DESIGNED	YS.EBI		07.05	
		fied, refer to JIS C 5402.				DRAWN NM.SANPEI			07.05	
Note QT:Q	ualification Test	AT:Assu	rance Test X:Applicable Tes	st	DRAWIN	DRAWING NO. ELC4-323714-04				
HS.	S	SPECIF	ICATION SHEET		PART NO.	PART NO. FH26W-**S-0.3SHW(6				
	HIF	ROSE F	LECTRIC CO., LTD.	CODE NO			\wedge 1	1/2		

SPECIFICATIONS										
ITEM	TEST METHOD	REQUIREMENTS	QT	АТ						
DAMP HEAT, CYCLIC	EXPOSED AT -10 TO +65 °C RELATIVE HUMIDITY 90 TO 96 % 10 CYCLES, TOTAL 240h.	 CONTACT RESISTANCE: 100m Ω MAX. INSULATION RESISTANCE: 1M Ω MIN. (AT HIGH HUMIDITY) INSULATION RESISTANCE: 50M Ω MIN. (AT DRY) NO DAMAGE, CRACK AND LOOSENESS OF PARTS. 	×							
DRY HEAT	EXPOSED AT 85±2°C, 96h.	① CONTACT RESISTANCE: 100mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS	×	_						
COLD	EXPOSED AT -55±3°C, 96h.	OF PARTS.	×	_						
SULPHUR DIOXIDE [JIS C 60068-2-42]	EXPOSED AT 40±2°C, RELATIVE HUMIDITY 80±5 %, 25±5 ppm FOR 96h.	① CONTACT RESISTANCE: 100mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	_						
HYDROGEN SULPHIDE [JIS C 60068-2-43]	EXPOSED AT 40±2°C, RELATIVE HUMIDITY 80±5 %, 10 TO 15 ppm FOR 96h.	③ NO EVIDENCE OF CORROSION WHICH AFFECTS TO OPERATION OF CONNECTOR.	×	_						
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, $235\pm5^{\circ}\text{C}$ FOR IMMERSION DURATION, $2\pm0.5~\text{sec.}$	A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSED.	×	_						
RESISTANCE TO SOLDERING HEAT	1) REFLOW SOLDERING: PEAK TMP. 250°CMAX. REFLOW TMP. OVER 230°C WITHIN 60 sec. 2) SOLDERING IRONS: TMP. 350±10°C FOR 5±1 sec.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS. (note 2)	×	_						

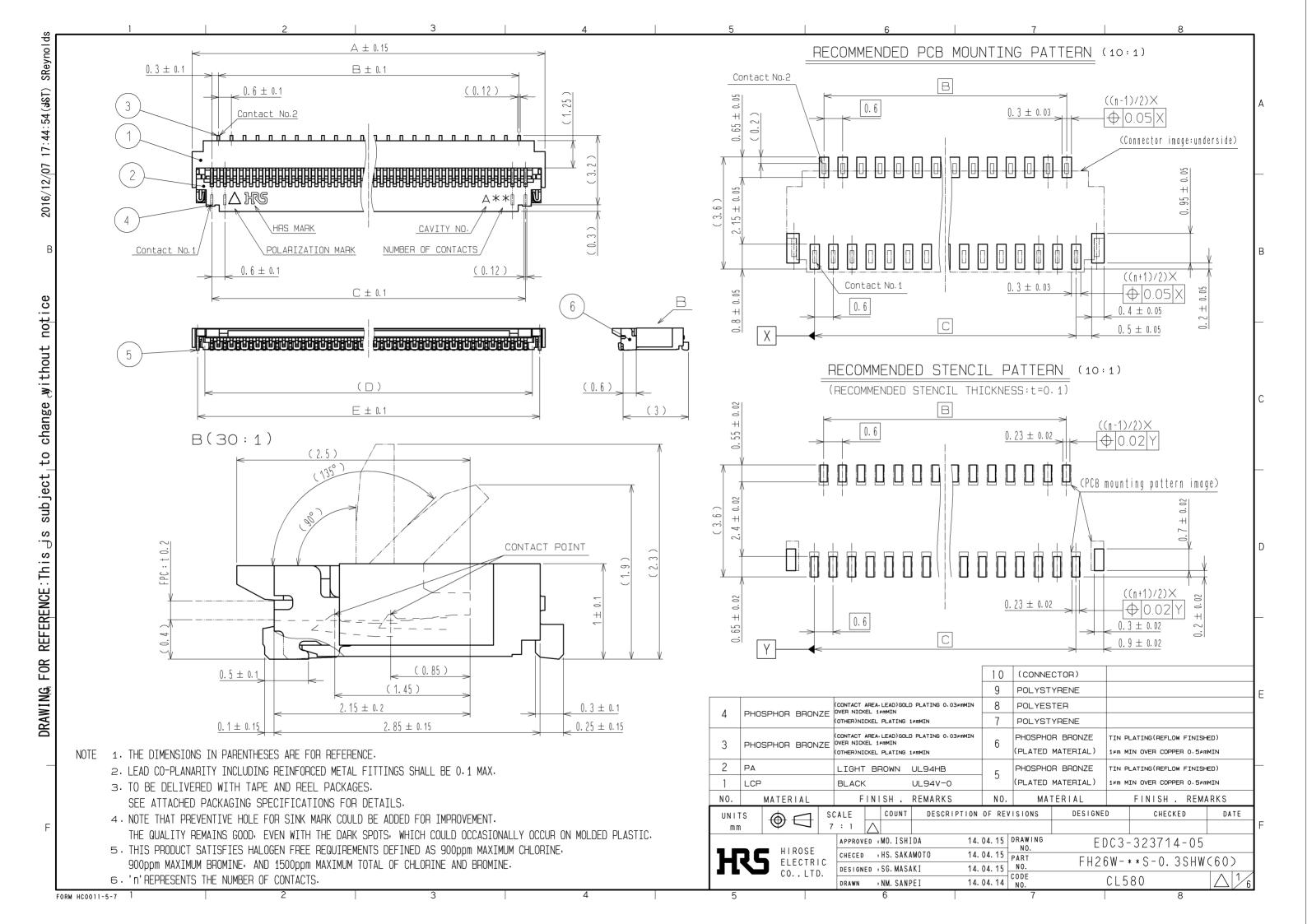
(note 1)

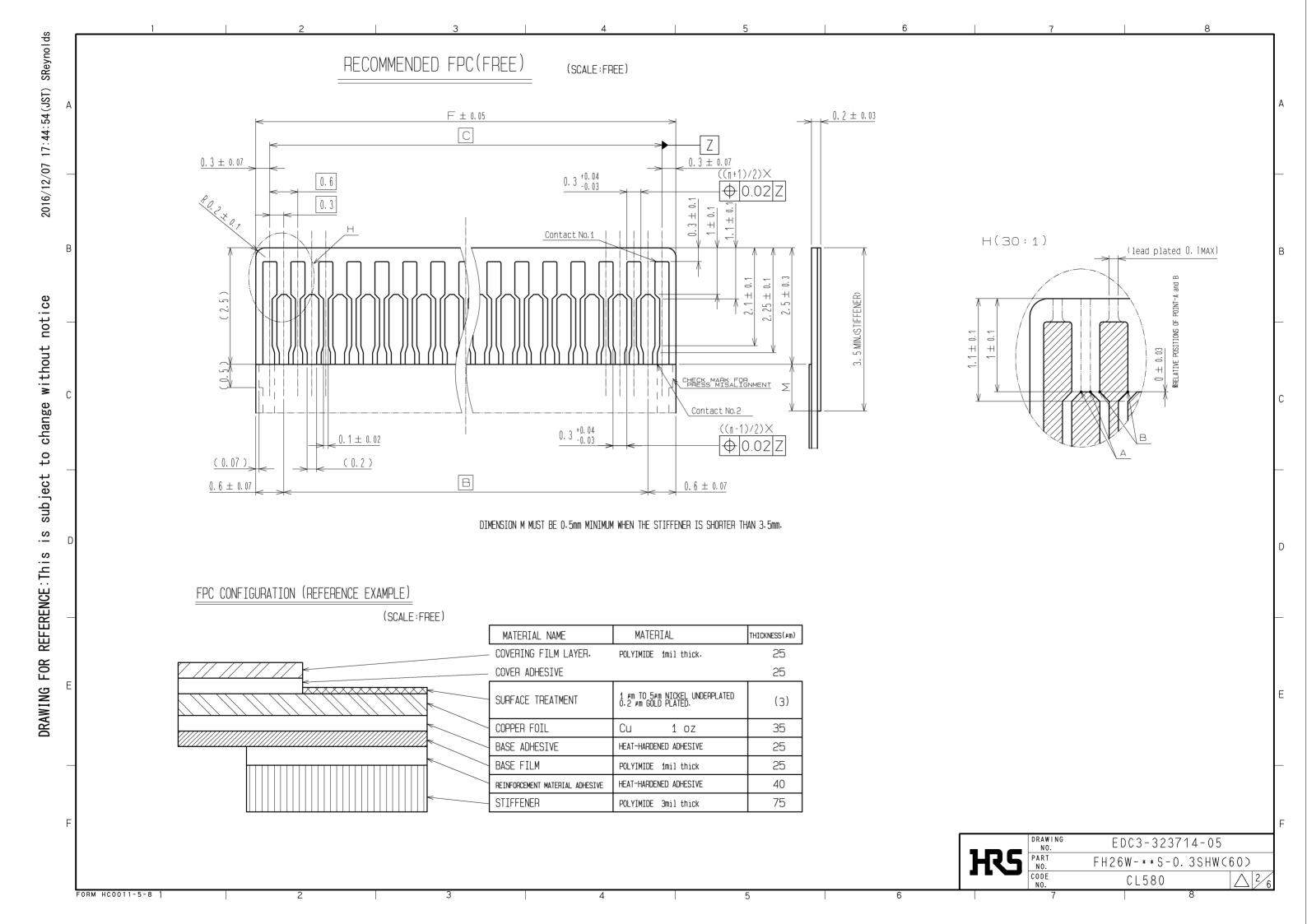
THIS PRODUCT HAS FLIP-LOCK CONSTRUCTION. FASTEN FPC ON PCB OR SOMETHING FIXED IF FORCE IN VERTICAL DIRECTION SHALL BE PREDICTED.

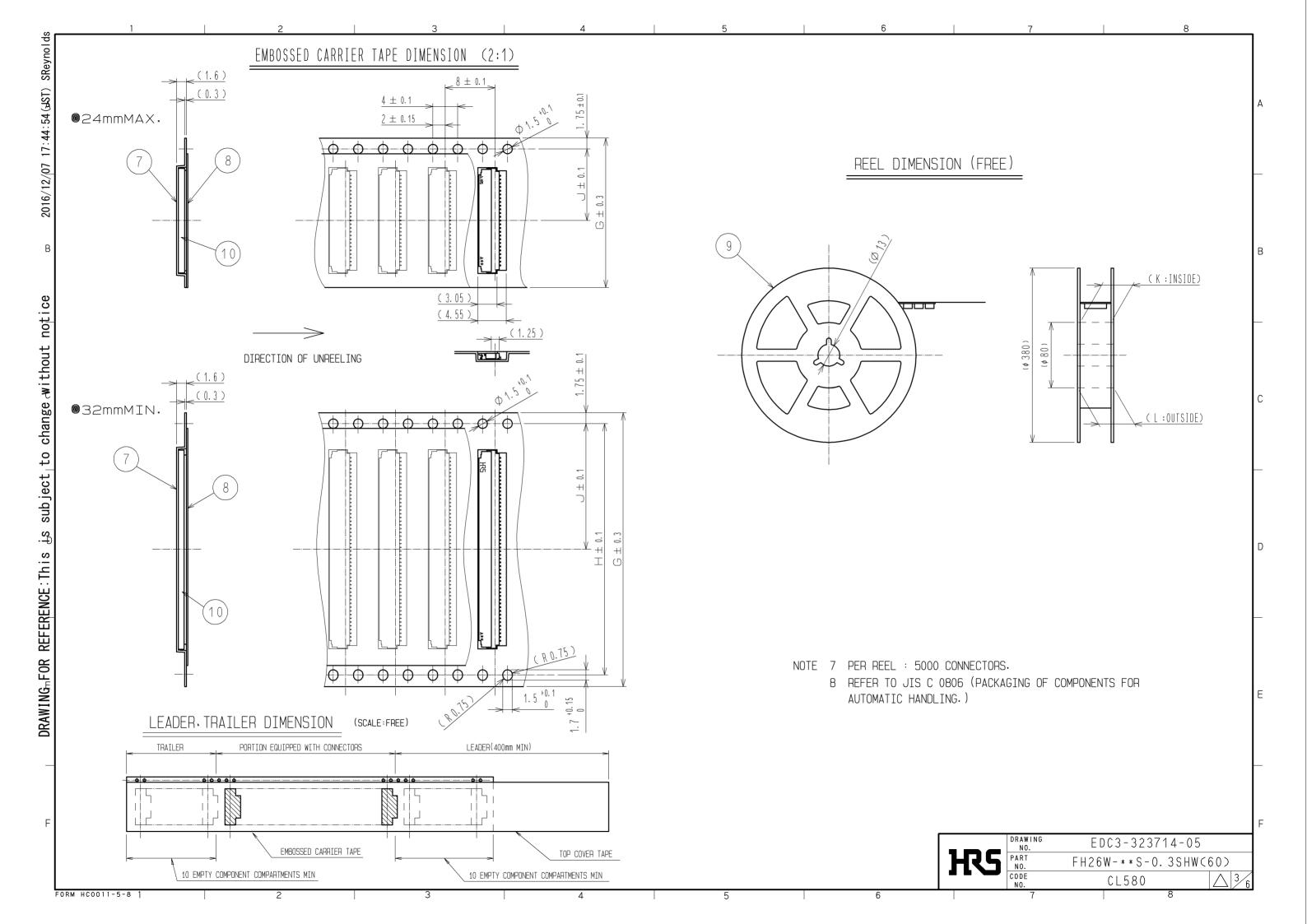
(note 2)

BLISTERS WHICH MAY OCCUR IN HOUSING DO NOT AFFECT PRODUCT PERFORMANCE.

Note QT:Q	ualification Test AT:Assurance Test X:Applicable Test	DRAWIN	IG NO.	ELC4-323714-04			
HRS	SPECIFICATION SHEET	PART NO.	FH26W-**S-0.3SHW(60)				
	HIROSE ELECTRIC CO., LTD.	CODE NO		<u> </u>			







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PART NUMBER	CI	NUMBER OF	DIMENSION OF CONNECTOR, FPC PATTERN AND METAL MASK DIMENSION OF DRAWI						DRAWING	NG FOR PACKING			
FANT NUMBEN	CL	CONTACT	А	В	С	D	E	F	G	Н	J	K	
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

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

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DRAWING_FOR REFERENCE: This is subject to change without notice

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

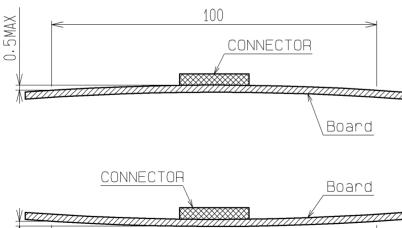
- ·Splitting a large board into several pieces
- ·Screwing the board

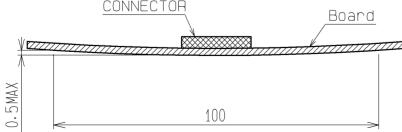
Avoid the handling described above so that no force is exerted on the board during the assembly process. Otherwise, the connector may become defective.

♦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.



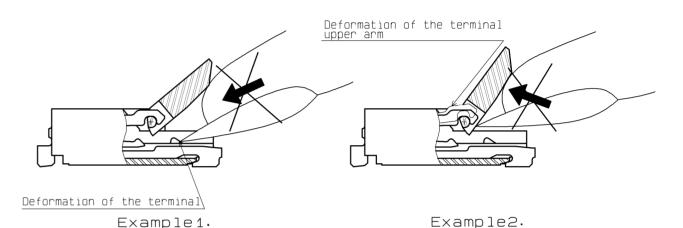


INSTRUCTIONS ON INSERTING FPC AND CONNECTION!

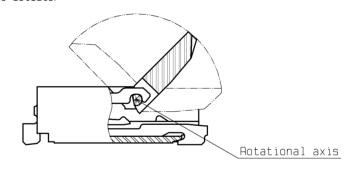
♦ Use of the actuator

1. Be very careful not to apply excessive force when releasing the actuator in the initial position (with no FPC inserted).

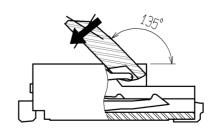
If you use your nail or finger as shown below, the terminals may be deformed.



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	
H ₂ 5	PART NO.	FH26W-**S-0.3SHW	(60)
	CODE NO.	CL580	\triangle 5
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4. Move the actuator at approximately the center.

Insert it properly to the very end.

If the FPC is inserted at a slant (incorrectly),

resulting in deformation of the terminals.

(when the recommended FPC nominal is used).

2. Do not insert the FPC diagonally from above.

resulting in improper conduction.

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.)

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

the conductors may short-circuit due to pitch shift or the edge of the FPC may catch in the terminals.

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

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

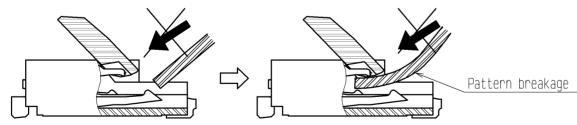
This connector has a ZIF structure, and its effective engagement length is 0.35 mm

Use the actuator carefully to prevent the FPC from dislocating after inserting it.

the FPC may bend and patterns may break or the FPC may not insert completely.

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

If the FPC is inserted at a slant (incorrectly) as shown below in the FPC insertion process.



♦Direction of Contacts

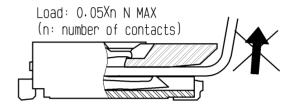
♦Inserting the FPC

◆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]

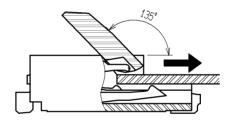
♦Load to FPC

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.

> EDC3-323714-05 HS. FH26W-**S-0.3SHW(60) CL580

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