



**THE DATASHEET OF
FH29-90S-0.2SHW(05)**



COUNT	DESCRIPTION OF REVISIONS	BY	DATE

A

DRAWING FOR REFERENCE: This is subject to change without notice

PART NUMBER	CL NUMBER	NUMBER OF CONTACT	DIMENSION OF CONNECTOR, PATTERN, AND METAL MUSK				DIMENSION OF DRAWING FINISH			
			A	B	C	n	D	E	F	n
FH29-34S-0.2SHW(05)	CL580-0309-8-05	34	8.62	6.4	7.24	17	9.62	11.5	-	-
FH29-40S-0.2SHW(05)	CL580-0307-2-05	40	9.82	7.6	8.44	20	10.82	11.5	-	-
FH29-44S-0.2SHW(05)	CL580-0304-4-05	44	10.62	8.4	9.24	22	11.62	11.5	-	-
FH29-50S-0.2SHW(05)	CL580-0308-5-05	50	11.82	9.6	10.44	25	12.82	11.5	-	-
FH29-70S-0.2SHW(05)	CL580-0306-0-05	70	15.82	13.6	14.44	35	16.82	11.5	-	-
FH29-80S-0.2SHW(05)	CL580-0301-6-05	80	17.82	15.6	16.44	40	18.82	14.2	28.4	28.4
FH29-90S-0.2SHW(05)	CL580-0302-9-05	90	19.82	17.6	18.44	45	20.82	20.2	40.4	40.4
FH29-100S-0.2SHW(05)	CL580-0310-7-05	100	21.82	19.6	20.44	50	22.82	20.2	40.4	40.4
FH29-120S-0.2SHW(05)	CL580-0303-1-05	120	25.82	23.6	24.44	60	26.82	20.2	40.4	40.4

△ △ △ △ △

TO	
NC	

F

NO.	MATERIAL	FINISH, RE
CODE NO. (OLD)	CL	

DIMENSION CHART

	DRAWING NO.
	EDC3-15547
SCALE	- : 1
UNITS	MM

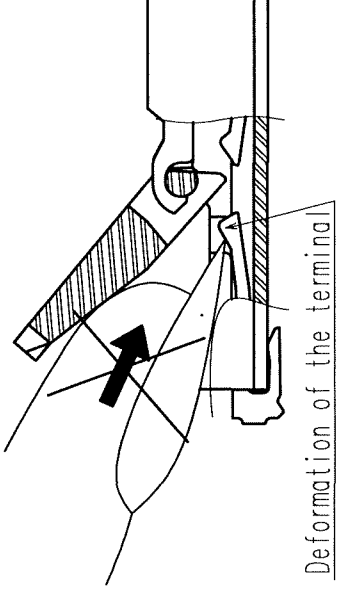
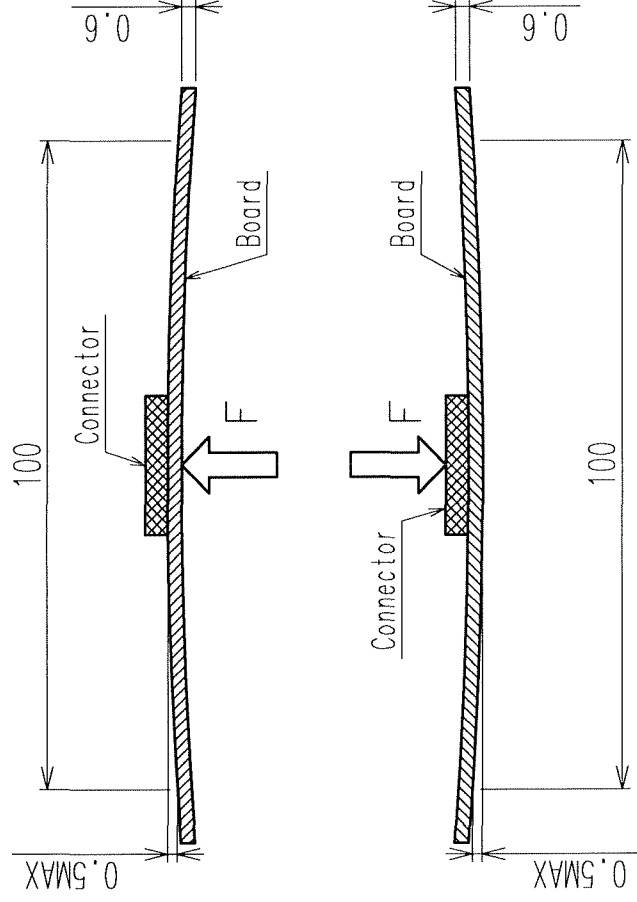
HRS
HIROSE ELECTRIC

1	2	3	4	5	6

This connector is small and thin and requires delicate and careful handling. Read through the instructions shown below and handle the connector properly. Each value indicating here are for reference and may differ from standard value.

【 INSTRUCTIONS FOR MOUNTING ON THE BOARD 】

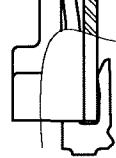
- ◆ **Warp of Board**
Minimize warp of the board as much as possible.
Lead co-planarity including reinforced metal fittings is 0.1 mm or less.
Too much warp of the board may result in a soldering failure.
- ◆ **Load to Connector**
Do not apply a force of 0.5 N or more to the connector before mounting it on the board.
Otherwise, the connector may be broken.
Do not insert the FPC or operate the connector before mounting it.
- ◆ **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.



Example 1

2. The lock lever rotates around
Rotate the lock lever.

3. The lock lever will not open
Do not apply any force backwa
Otherwise, the lock lever may



TO	
NC	

COUNT	DESCRIPTION OF REVISIONS	BY

【 INSTRUCTIONS ON INSERTING FPC AND C

- ◆ Use of the Lock Lever
 1. Be very careful not to apply in the initial position (with If you use your nail or finger

CODE NO. (OLD)
CL

INSTRUCTION MANUAL

SCALE
FREE

UNITS
mm

DRAWING NO.
EDC3-15547

HRS

HIROSE ELECTRI

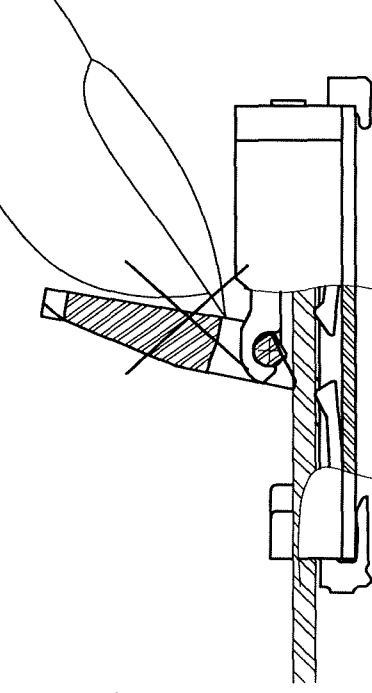
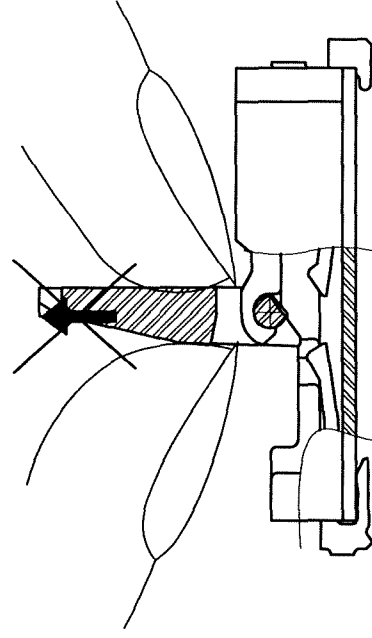
TO	
NC	

4. Move the lock lever at approximately the center.

(It may break if operate the edge of the lock lever with FPC inserted.)

5. Do not pinch or pick the lock lever to lift it as shown below. Otherwise, it may break.

(Do not carry out any operation other than rotating the lever as shown in 2 above.)

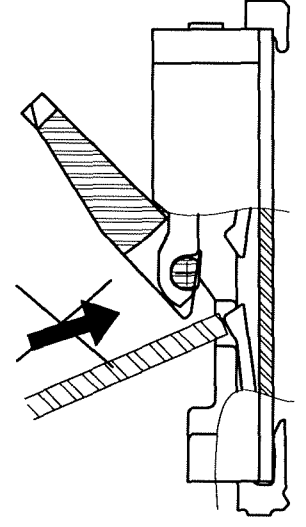
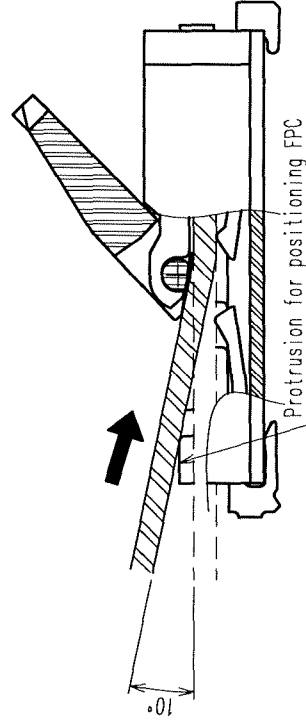


◆ Direction of Contacts

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

◆ Inserting the FPC

1. Insert the FPC by about 10 degrees 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.

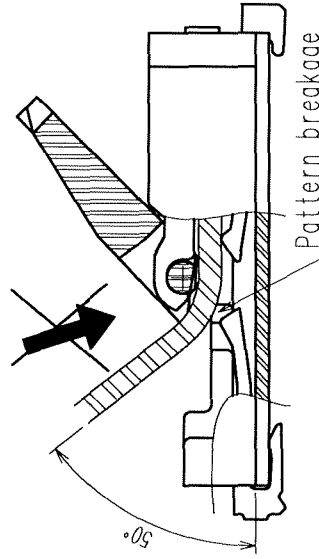


2. Do not insert the FPC diagonally from above.

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 performance and wire breakage.



◆ Checking the Locking Condition

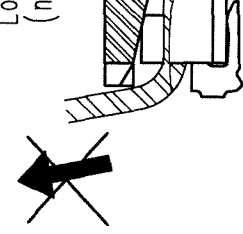
In the locked condition, make sure that the lock lever is horizontal on the board surface. Do not apply excessive force to it near the 0° position of the lever. Otherwise, the terminals may be deformed. (Allowable force: 1 N or less)

COUNT	DESCRIPTION OF REVISIONS	BY
1		
2		
3		
4		
5		
6		

【 INSTRUCTIONS ON FPC LAYOUT AFTER CONNECTION】

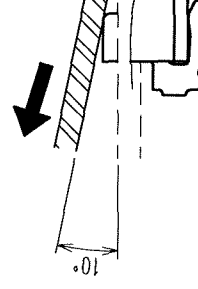
◆ Load to FPC

Be very careful not to apply any force to the FPC. Otherwise, the connector may become damaged. Fix the FPC, in particular, when the board is bent. Design the FPC layout with care in consideration of the load (N).



【 INSTRUCTIONS ON REMOVING FPC】

- ◆ Release the lock lever at approximately 10 degrees. (It may break if operate the edge of the lock lever.)
- ◆ Release the lock lever to remove the FPC. Remove the FPC by about 10 degrees.



【 OTHER INSTRUCTIONS】

- ◆ Instructions on Manual Soldering: Follow the instructions shown below.
 1. Do not perform reflow soldering on the FPC.
 2. Do not heat the connector excessively.
 3. Do not use excessive solder (or flux) on the FPC. If excessive solder (or flux) is applied, it may cause the lock lever to rotate or the terminals to be deformed.

CODE NO. (OLD)

CL

INSTRUCTION MANUAL

DRAWING NO.

EDC3-15547

SCALE

FREE

UNITS

mm



HIROSE ELECTRIC

5

6

Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

[View FH29-90S-0.2SHW\(05\) on WIN SOURCE](#)

[Hirose Electric Co Ltd Information](#)

Optimize Your Supply Chain with WIN SOURCE Solutions

- ✓ Global Sourcing Solution
- ✓ Obsolete Management
- ✓ Cost Control Management
- ✓ Shortage Management
- ✓ Alternative Solution
- ✓ Excess Inventory Management