

This connector 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 is 0.1 mm or less.

Too much warp of the board may result in a soldering failure.

#### ↑ ◆Load to Connector

Do not add 1N 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.

### ⚠ I INSTRUCTIONS FOR PCB HANDLING AFTER MOUNTING THE CONNECTOR I

#### ◆Loard to Board

- Splitting a large board into several pieces

- Screwing the board

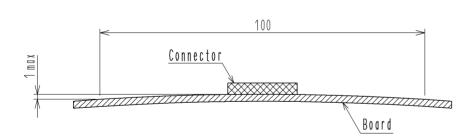
Avoid the handling described above so that no force is exerted on the board during the assembly Otherwise, the connector may become defective.

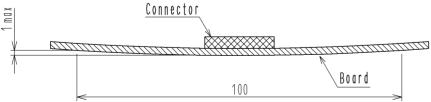
#### ◆Amount of Warp

FORM HC0011-5-8

The warp of a 100 mm wide board should be 1 mm or less.

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





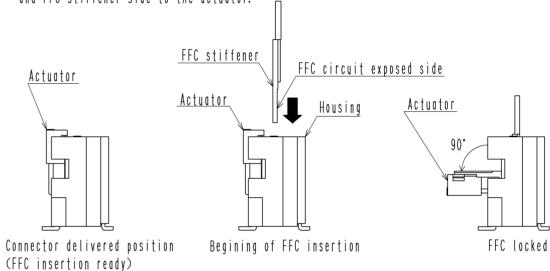
#### I INSTRUCTIONS ON INSERTING FFC AND CONNECTION 1

#### ◆Actuator position

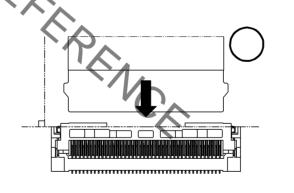
Actuator position as delivered is ready for FFC insertion. FFC locked position is that the FFC is inserted and the actuator is rotated by 90°. Do not rotate the actuator before FFC is inserted.

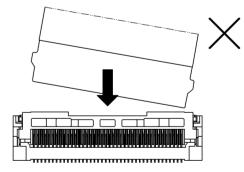
#### ◆Direction of contacts

Insert the FFC in a way that the FFC circuit exposed side faces to the housing. and FFC stiffener side to the actuator.



asrting the FFC at a right angle to the connector and properly to the very end.





# <INSTRUCTION MANUAL (1)>

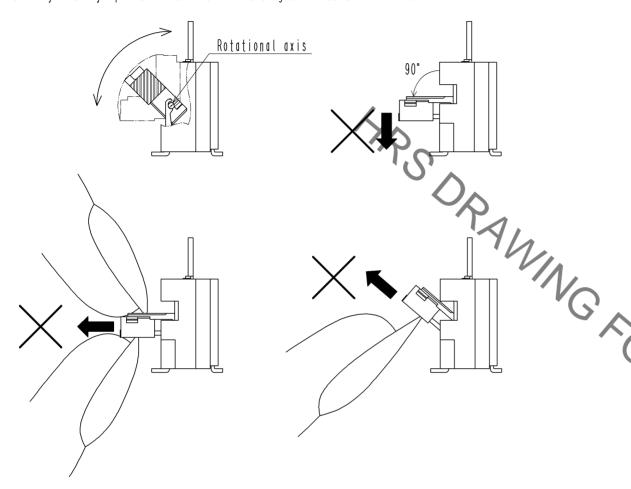
	HS	DRAWING NO.	EDC3-334620-00		
<b>H</b> •		PART NO.	FH48-21S-0.5SV		
		CODE NO.	CL580-3103-9-00	$\triangle$	4/!
		7	0		

◆Use of the actuator

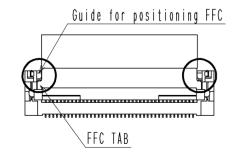
1. The actuator rotates around the rotational axis as shown below. Rotate the actuator.

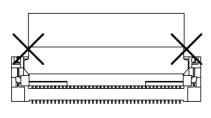
2. The actuator will not open moure than 90°. Do not apply any force backward beyond this point. It may cause contact deformation and actuator breakage.

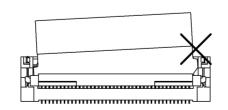
3. Do not pinch or pick the actuator to lift it as shown below. Otherwise, it may break. (Do not carry out any operation other than rotating the actuator as shown above.)



- ◆Checking the Locking Condition
  - 1. In the locked condition, make sure that the actuator is horizontal on the board surface.
  - 2. After FFC is locked, make sure the position of TAB and guides.







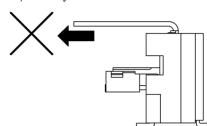
#### [ INSTRUCTION ON FFC LAYOUT CONNECTION ]

◆Load to FFC

Be very careful not to apply force to the connector directly after inserting FFC.

Otherwise, the connector or the FFC may break.

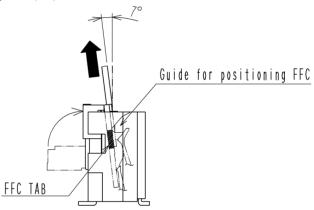
In particular, design the FFC layout with care not to bend it sharply in a direction of the actuator side near the insertion operating.



Load:  $0.05 \times n$  N max (n: number of contacts)

I INSTRUCTIONS ON REMOVING FFC 1

◆For FFC removal, remove the FFC after unlocking the actuator. Remove the FFC by about 7 degrees perpendicular to PCB.



◆Instructions on Manua

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 FFC 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.

<INSTRUCTION MANUAL (2)>

	DRAWING NO.	EDC3-334620-00		
HR5	PART NO.	FH48-21S-0.5SV		
	CODE NO.	CL580-3103-9-00	$\triangle$	5/
	7	Q		

## **X-ON Electronics**

Largest Supplier of Electrical and Electronic Components

Click to view similar products for FFC & FPC Connectors category:

Click to view products by Hirose manufacturer:

Other Similar products are found below:

K-FC20 FH29B-80S-0.2SHW(99) FPH-2022G AYF332735 52610-1075 52610-1275 52610-1934 501864-3091-TR225 086222026001800 52610-0675 62684-36210E9ALF 52746-1671-TR250 10051922-2810EHLF 6-520415-9 SFV6R-1STE9HLF XF3M-2915-1B-R100 1658549-1 46214008010800 AYF534065TA AYF351525 086212040340800+ AYF530365TA 67000-014LF 67000-004LF 006207341915000+ DS1020-19RT1D 67000-003LF 67000-011LF 67000-016LF HFW14R-2STE9LF SFV32R-2STBE9HLF SFW12R-5STE9LF SFW18R-1STAE9LF SFW4R-5STE9LF 52807-0430 046283021002868+ THD1015-8CL-SN 67000-006LF 502250-8027 104267-9617 66987-011LF AYF362535 F0501-T-50-20T-R HFW8S-2STAE1HLF 67000-008LF 67000-012LF ECC576069EU F1002-B-20-20T-R HFW15S-2STAE1HLF 0781271110