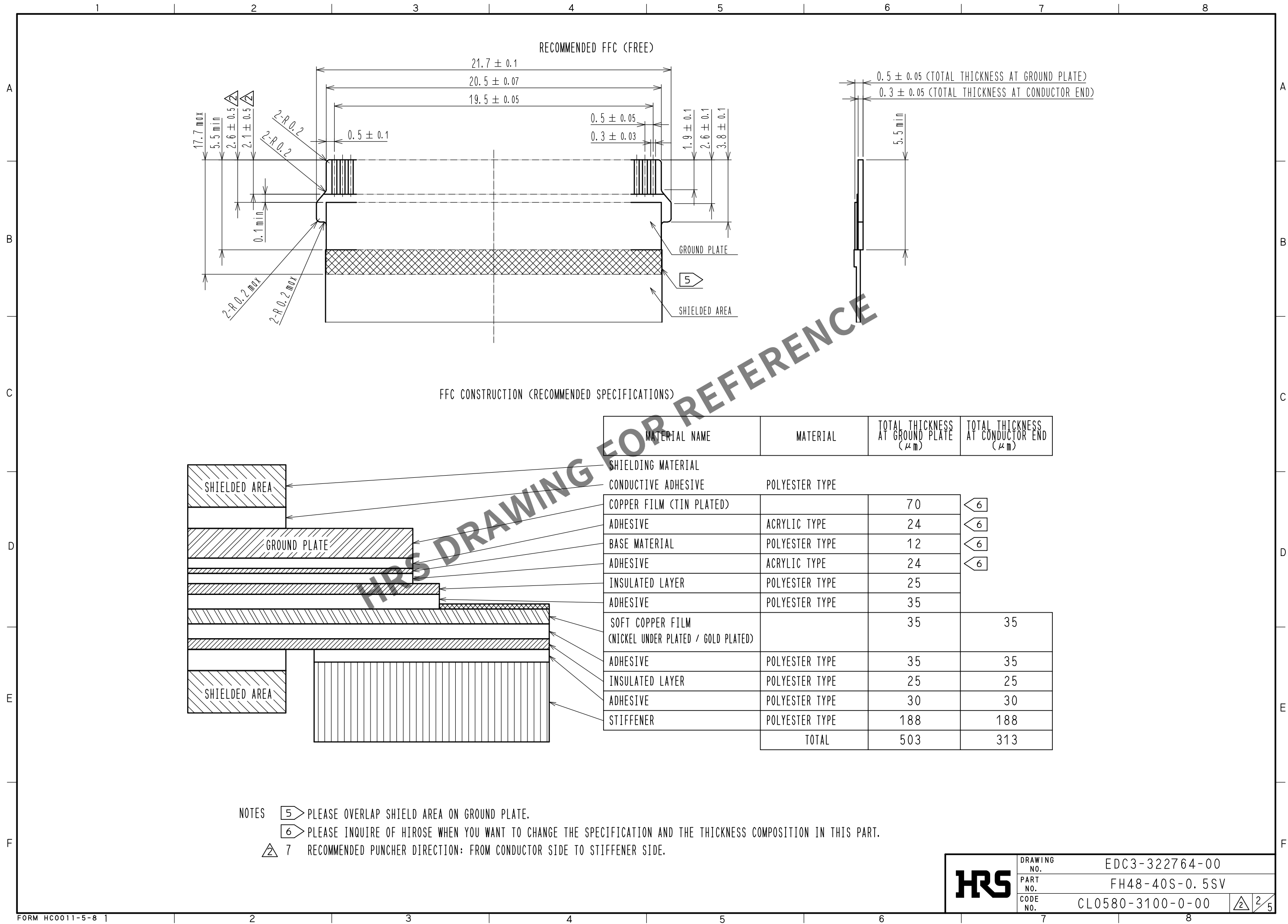
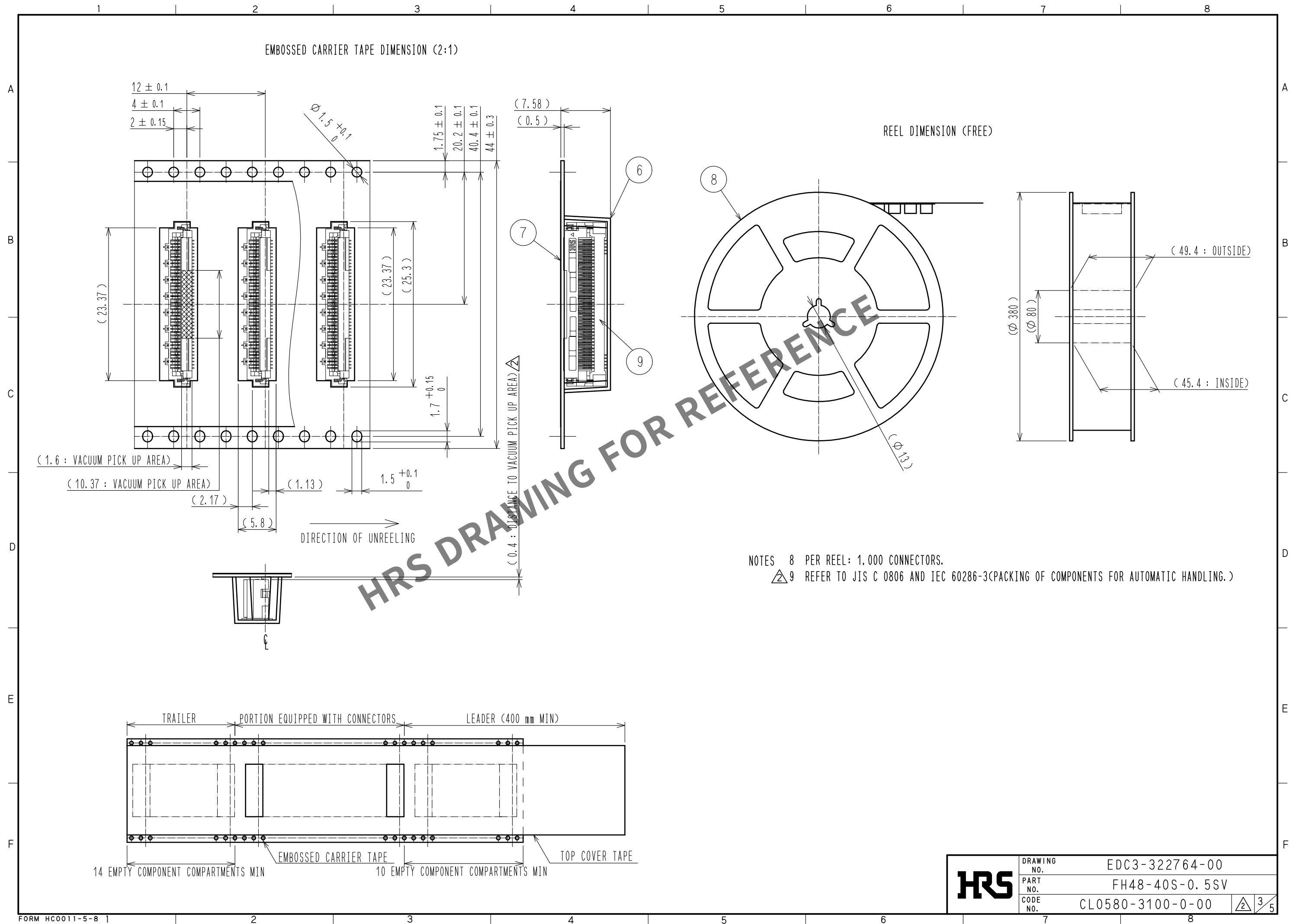








This connector requires delicate and careful handling.
Read through the instructions shown below and handle the connector properly.
Each values indicating here are for reference and may differ from standard value.

【 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.

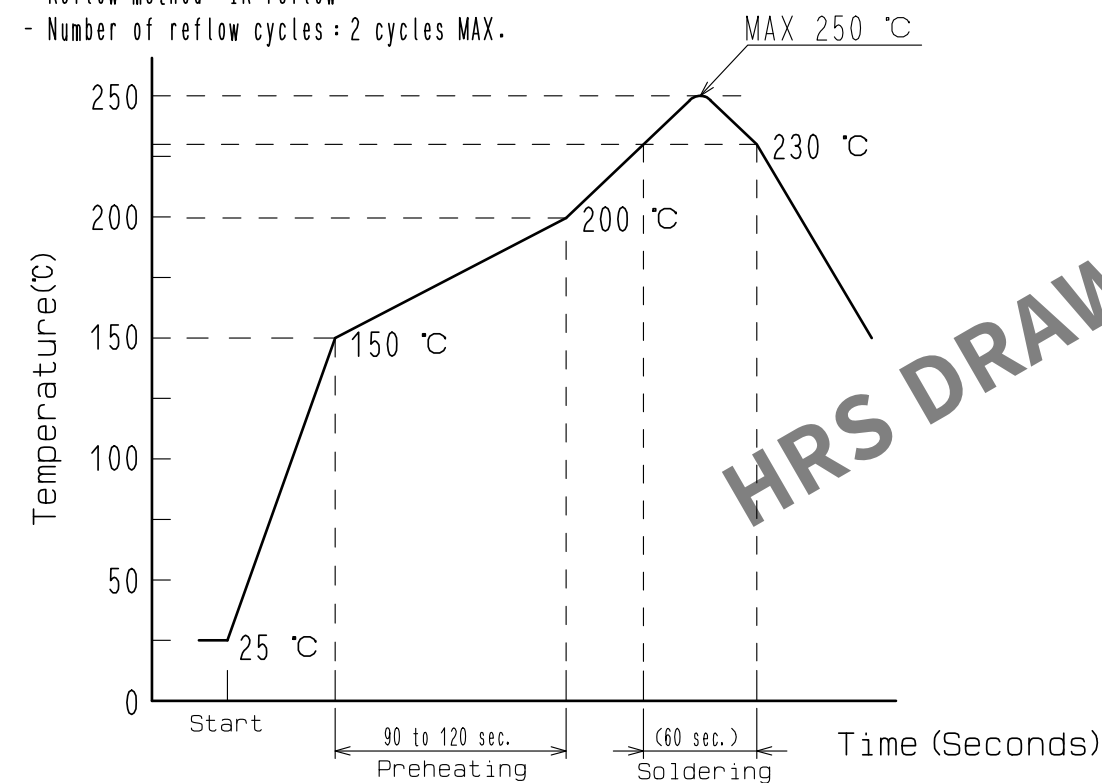
◆Load to Connector

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 FFC or operate the connector before mounting it.

◆Reflow temperature profile

Apply reflow temperature profile within the specified conditions.
For specific applications, the recommended temperature may vary depending on
type/volume/thickness of solder paste and size/thickness of PCB.
Please consult with your solder paste and equipment manufacturer for specific recommendations.
The temperatures mentioned below refer to the PCB surface temperature near the connector contact leads.

- Reflow method: IR reflow
- Number of reflow cycles: 2 cycles MAX.



【 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 1 mm or less.
The warp of board suffers stress on connector and the connector may become defective.

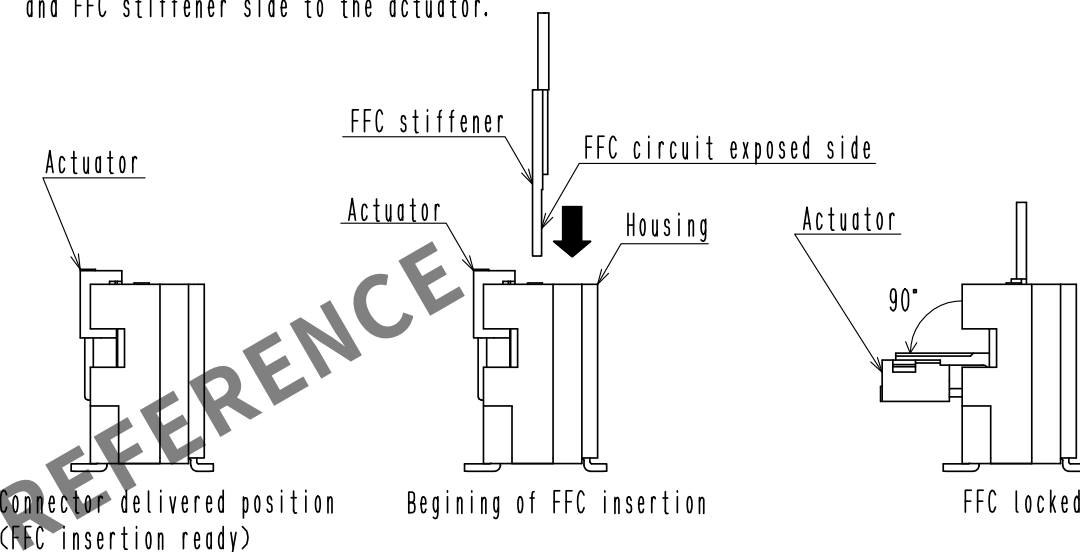
【 INSTRUCTIONS ON INSERTING FFC AND CONNECTION 】

◆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.

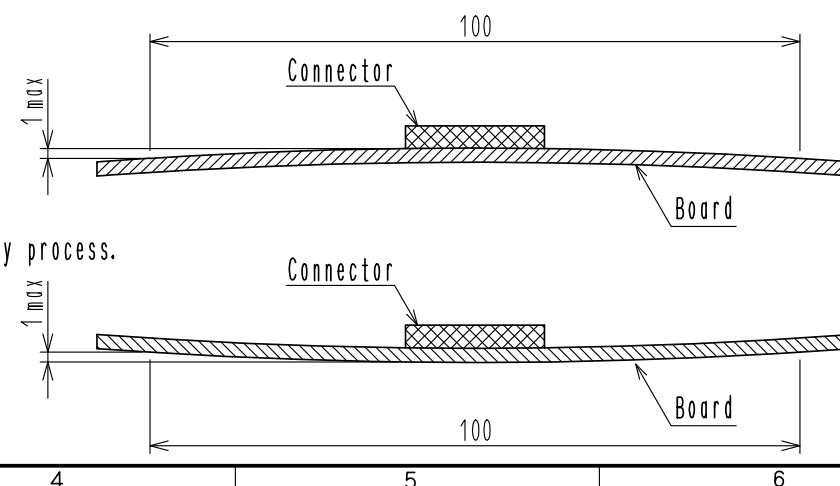
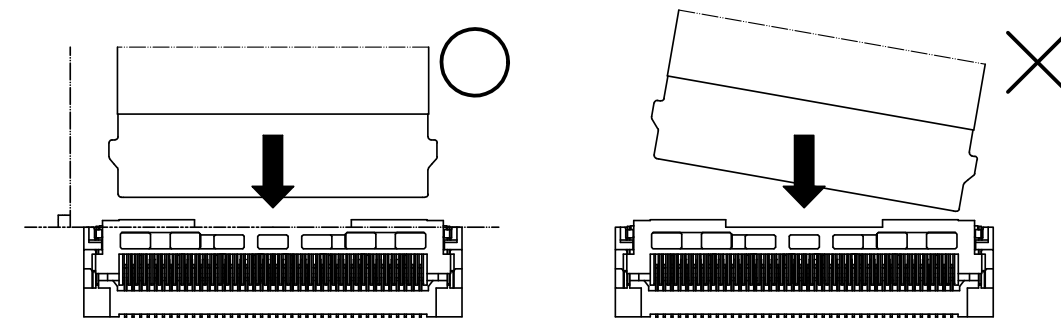
◆Direction of contacts

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



◆Inserting the FFC

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



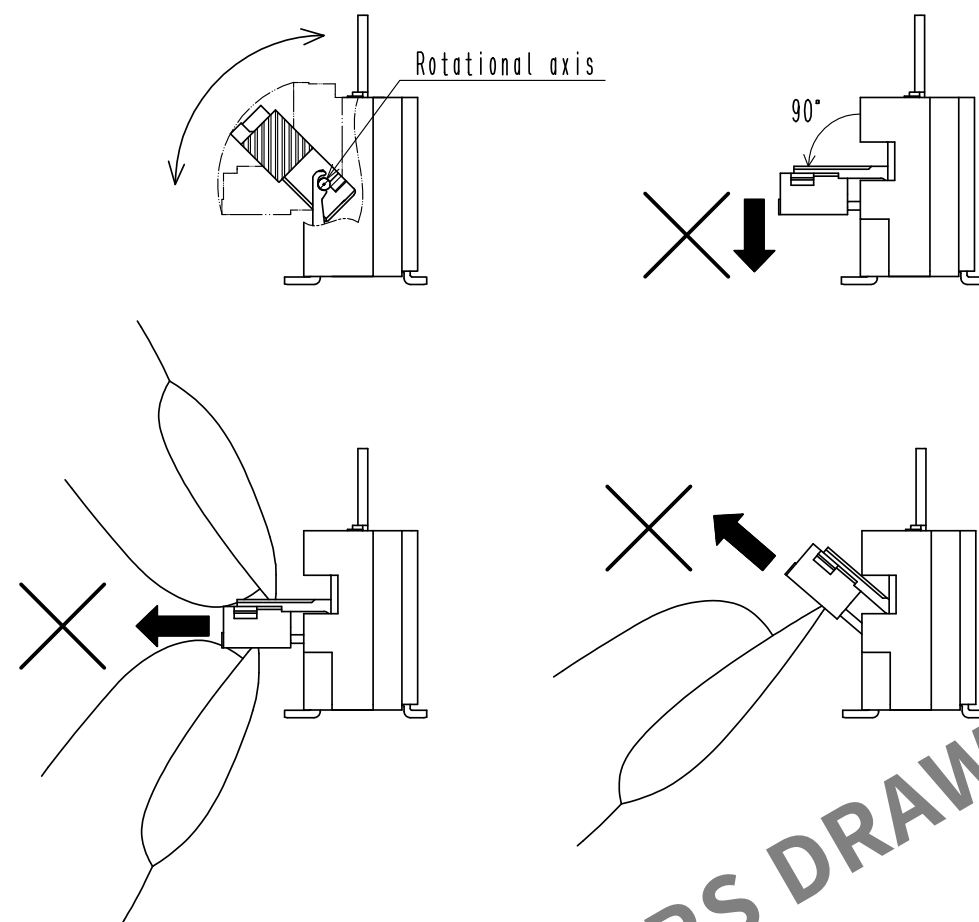
< INSTRUCTION MANUAL (1) >

HRS

DRAWING NO.	EDC3-322764-00
PART NO.	FH48-40S-0.5SV
CODE NO.	CL0580-3100-0-00

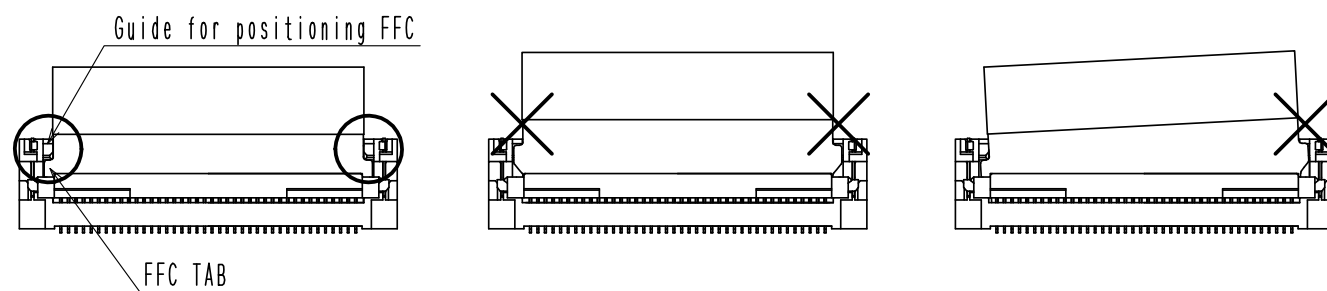
◆Use of the actuator

1. The actuator rotates around the rotational axis as shown below. Rotate the actuator.
2. The actuator will not open more 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

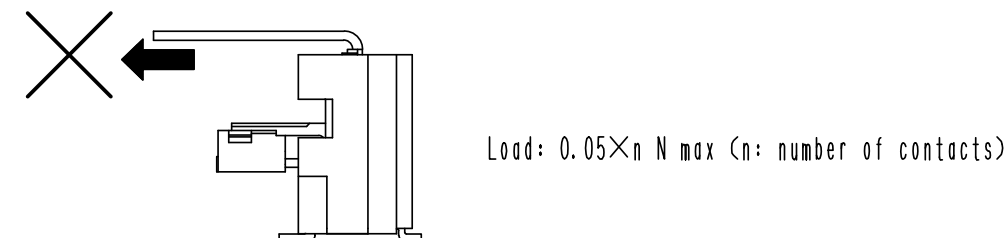
1. In the locked condition, make sure that the actuator is horizontal on the board surface.
2. After FFC is locked, make sure the position of TAB and guides.



【 INSTRUCTION ON FFC LAYOUT CONNECTION 】

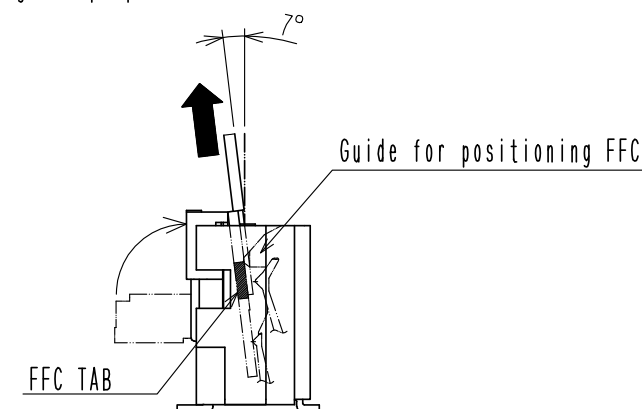
◆Load to FFC

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.



【 INSTRUCTIONS ON REMOVING FFC 】

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



【 OTHER INSTRUCTIONS 】

◆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 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.

⚠◆Please consult with our sales representative
if you are using FFC with different configuration from our recommendation.

⚠◆Attachment of foreign particles with the connector contact may lead to conduction failure.
In this particular case, the conduction failure may be fixed by re-inserting the FFC.

<INSTRUCTION MANUAL (2)>

HRS

DRAWING NO.	EDC3-322764-00
PART NO.	FH48-40S-0.5SV
CODE NO.	CL0580-3100-0-00

2/5