

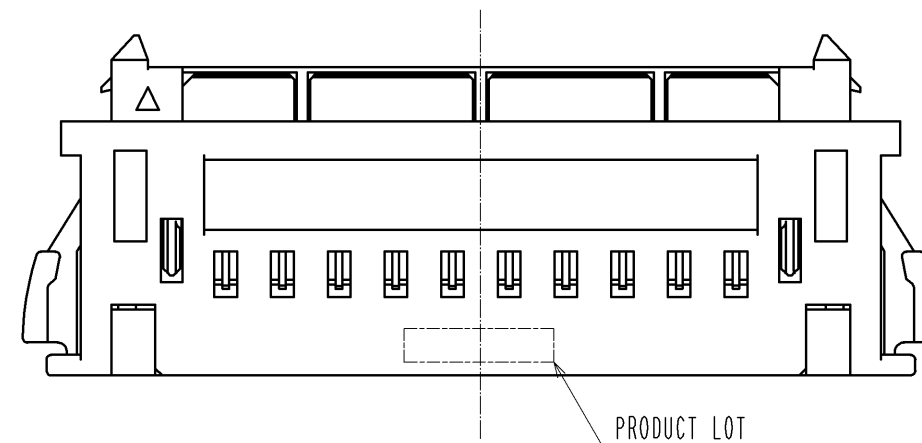
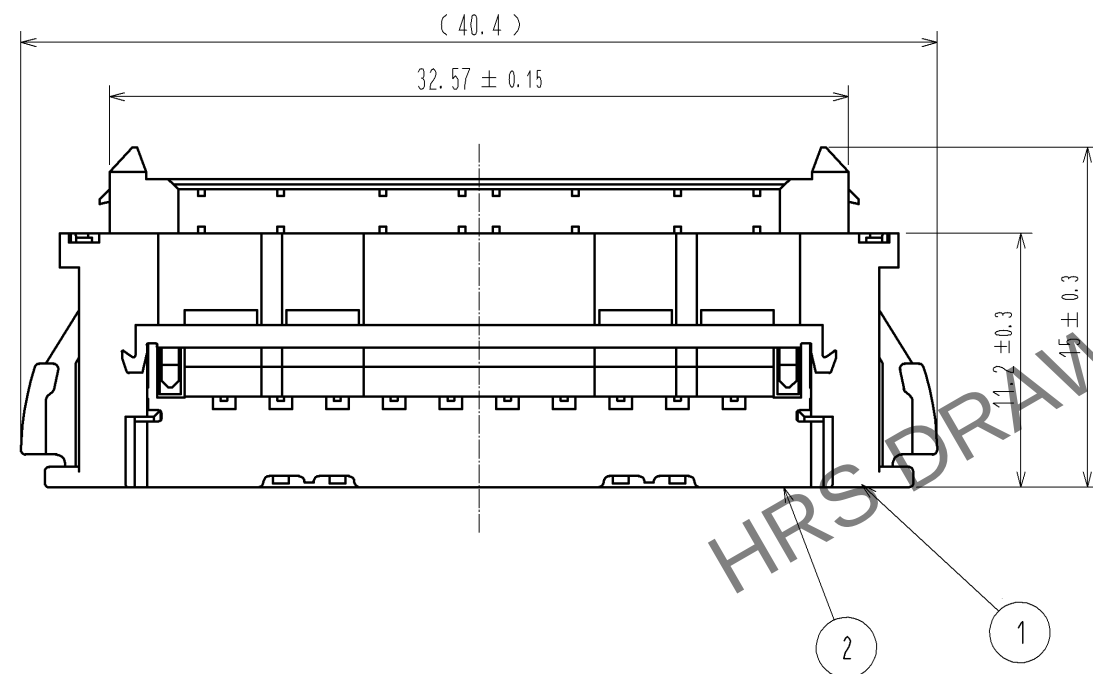
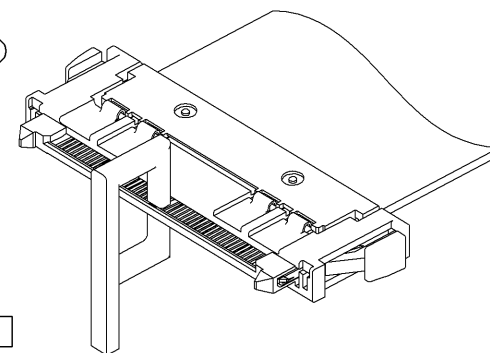
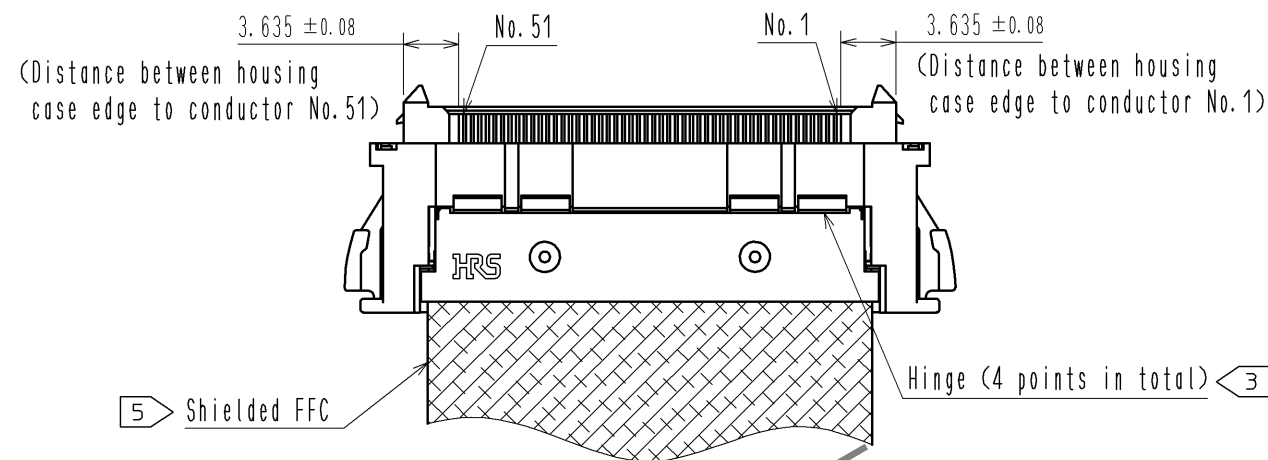
Oct.1.2025 Copyright 2025 HIROSE ELECTRIC CO., LTD. All Rights Reserved.
In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

△ Wholly-revised

Position and thickness of contact point after assembly of FFC

Thickness of contact point : 0.96 ± 0.05

Measurement example : Micrometer

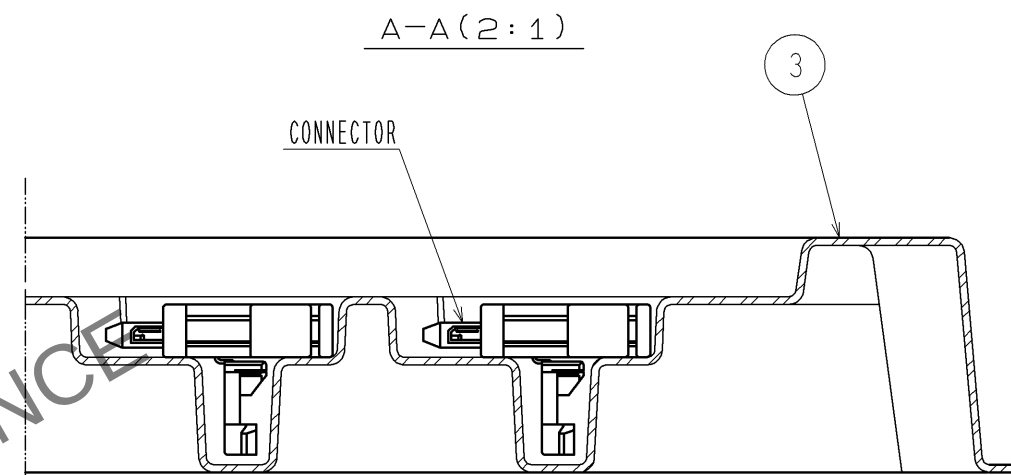
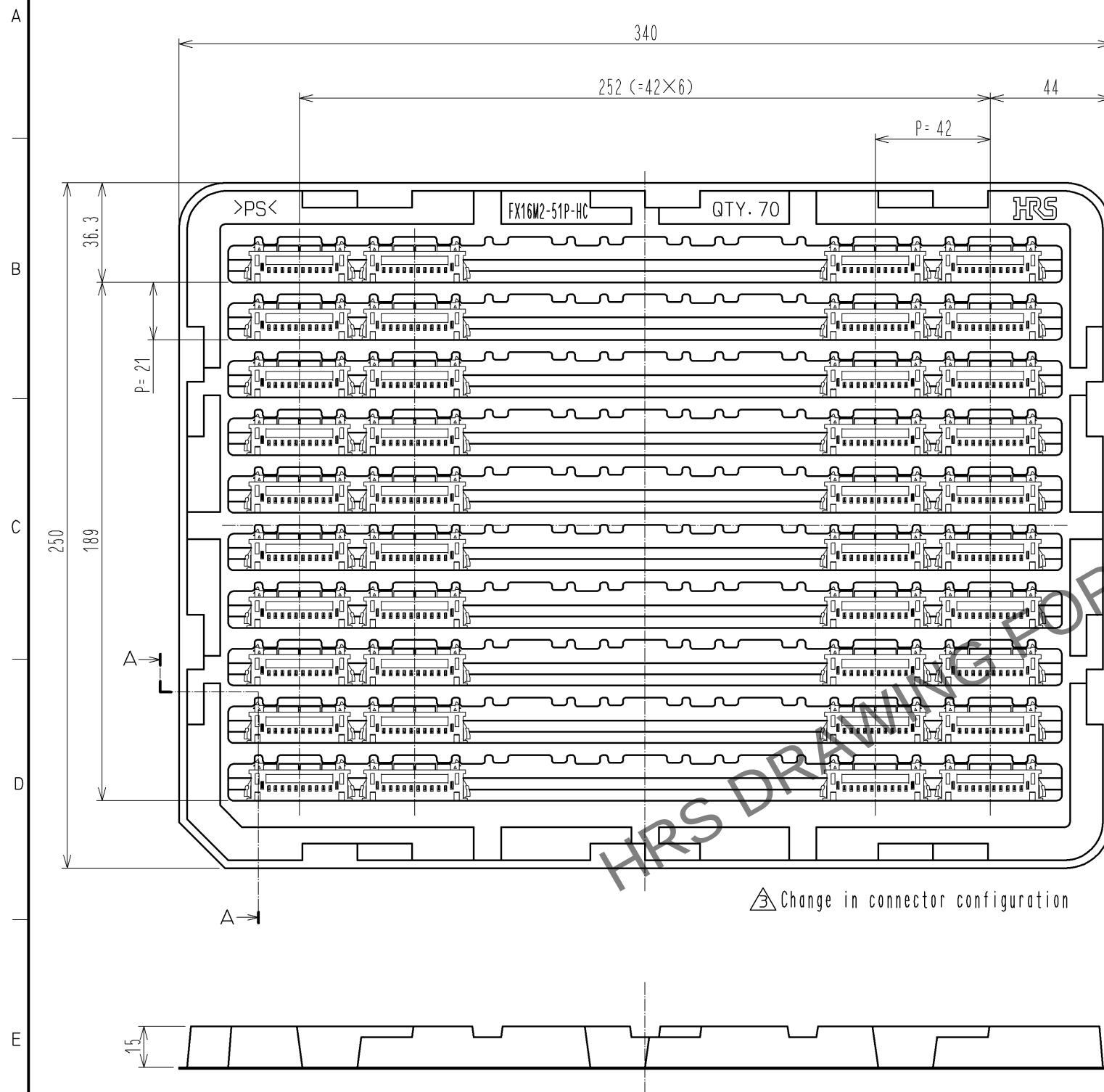


- NOTE 1 () indicates a reference dimension.
- 2 Manufacturing process could cause scratch and/or punch mark on the product, and/or shrinkage on the plastic resin without affecting the product performance.
- 3 Crack or fracture on hinge connection generated during cable assembly is acceptable, provided that it is only 1 of 4 points, which does not influence the connection performance.
- 4 The connectors are delivered in tray packaging.
- 5 The applicable cable of the connector is a FFC manufactured according to our specifications. Impedance matched shielded FFC is recommended in order to keep Signal-integrity performance.
- 6 Basically, performance is not guaranteed when mated to receptacles manufactured by other companies.

2	PHOSPHOR BRONZE	OVER PLATING:TIN PLATING 1μm min. UNDER PLATING:NICKEL 0.2μm min.			
1	PBT	BLACK UL94V-0	3	PS	(TRAY)
NO.	MATERIAL	FINISH , REMARKS	NO.	MATERIAL	FINISH , REMARKS
UNITS mm		SCALE FREE	COUNT △ 6	DESCRIPTION OF REVISIONS DIS-F-005314	DESIGNED KN. SHIBUYA
HIROSE ELECTRIC CO., LTD.		APPROVED : HS. OKAWA	10. 01. 16	DRAWING NO.	EDC3-327150-00
		CHECKED : HT. YAMAGUCHI	10. 01. 15	PART NO.	FX16M2-51P-HC
		DESIGNED : AH. EDASHIGE	10. 01. 15	CODE NO.	CL575-3263-0-00
		DRAWN : AH. EDASHIGE	10. 01. 15		
					DATE 11. 02. 23

Oct.1.2025 Copyright 2025 HIROSE ELECTRIC CO., LTD. All Rights Reserved.
In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

DRAWING FOR PACKING (1:2)



- 注 1 One tray contains 70 connectors.
2 The dimensions are for reference.

HRS

DRAWING NO.	EDC3-327150-00
PART NO.	FX16M2-51P-HC
CODE NO.	CL575-3263-0-00

3/2/6

Oct.1.2025 Copyright 2025 HIROSE ELECTRIC CO., LTD. All Rights Reserved.
In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

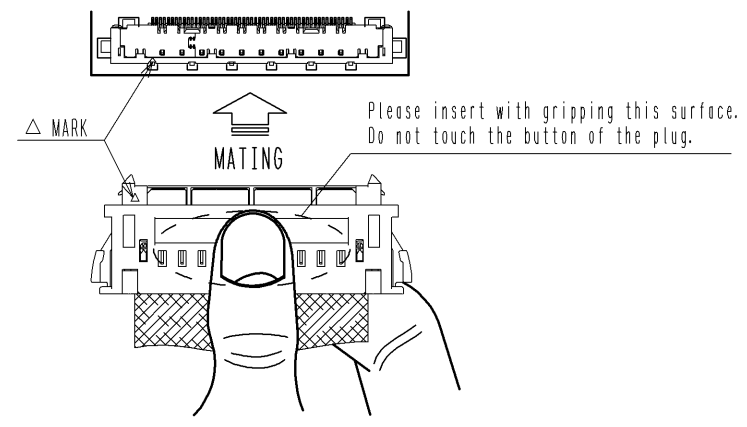
HANDLING INSTRUCTIONS

△ Wholly-revised

【1】 Insertion to on-board connector

The connector mating is keyed. Align the marks as shown in the figure for mating.
Insert the connector completely until they are locked at both ends.

RECEPTACLE : FX16M2-**S-0.5SH

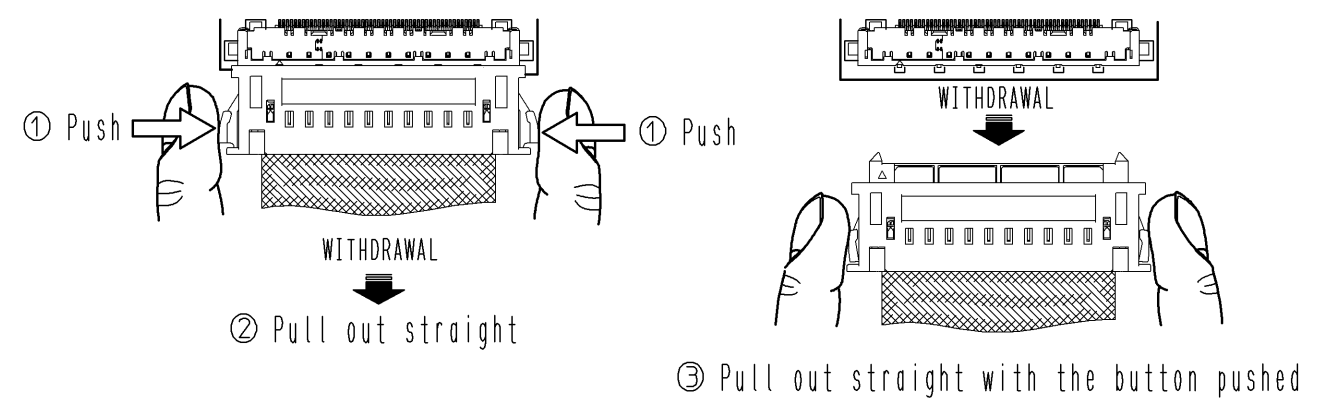


The connectors have a reverse-insertion prevention structure. However, the connectors may be damaged when inserted reversely with the force of 25N or more. Avoid a forceful insertion and make sure to confirm that the connectors are aligned with the marks before the mating operation.

Avoid angled insertion as described in the following 'Incorrect insertion', or the connector and/or FFC could be broken.

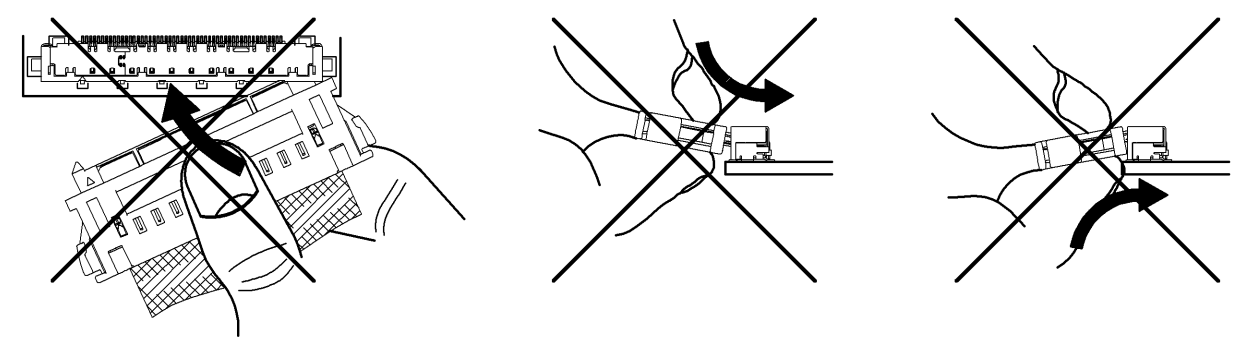
【2】 Withdrawal from on-board connector

The connectors are locked while they are mated.
In order to unmate the connectors, pull out straight with the button pushed to release the lock.
At this time, do not pull the FFC.

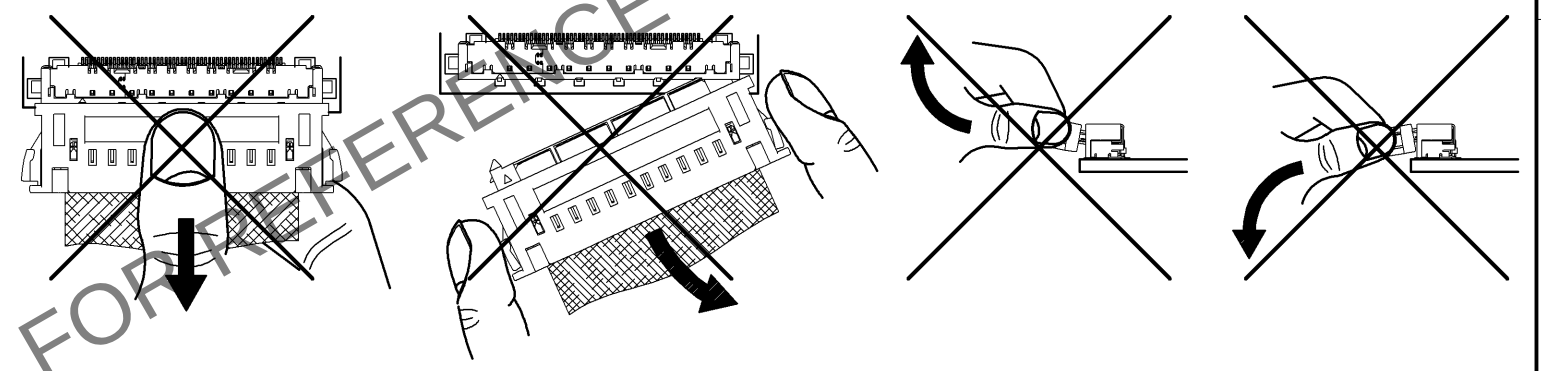


Also avoid the withdrawal in angle, which may damage the connectors.

<Incorrect insertion>

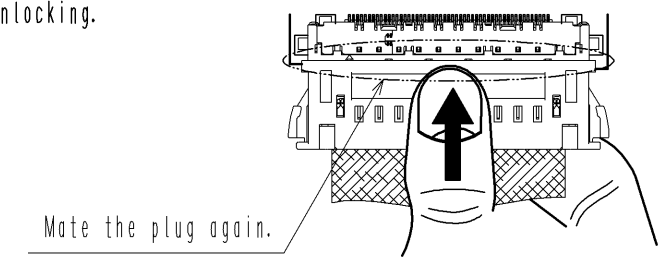


<Incorrect withdrawal>



【3】 Correction of the position when pulling the plug without unlocking.

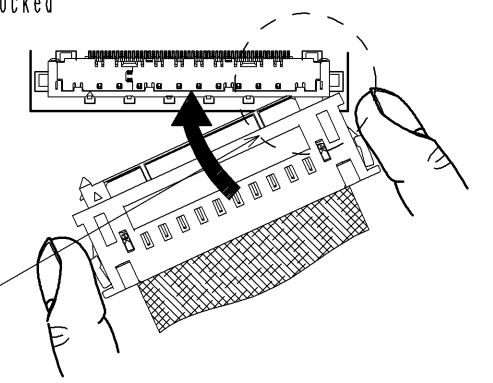
When the plug is pulled without unlocking operation,
mate the plug again and then withdraw in correct manner.



【4】 For the case that connector is withdrawn in condition that lock on one side is locked

In case connector is withdrawn in condition that lock on one side is locked,
it could damage the locking part.
In such case, do not withdraw forcefully, but mate the plug again
and pull out the plug in condition that the two locks are locked and
withdraw with <Correct withdrawal> method.

In case connector is withdrawn with lock that is locked on one side,
mate the plug again and withdraw with <Correct withdrawal> method.



*NOTE:

The figures of the connector shown herein are described with a representative number of contacts just for operation instruction. Therefore, the appearance could differ from the actual connectors. Refer to the drawing for the actual design (sheet 1).

HRS	DRAWING NO.	EDC3-327150-00
	PART NO.	FX16M2-51P-HC
	CODE NO.	CL575-3263-0-00
		3/6

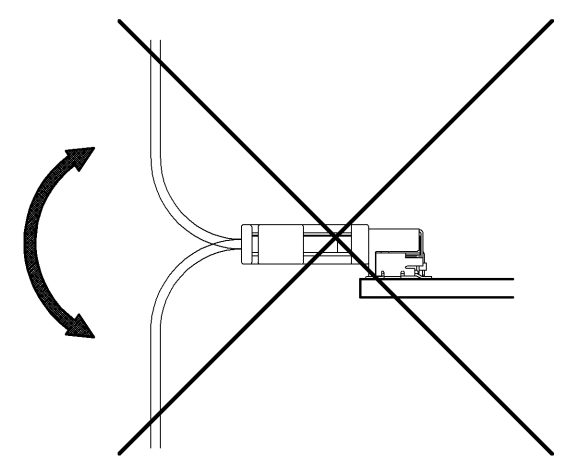
Oct.1.2025 Copyright 2025 HIROSE ELECTRIC CO., LTD. All Rights Reserved.
In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

△ Wholly-revised

【5】 After mating

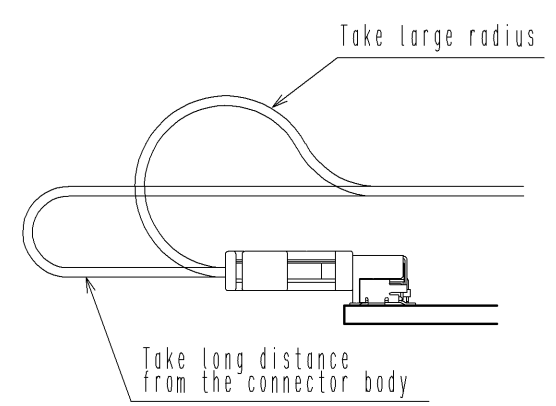
Carefully wire FFC, so that excessive force will not be applied to the mated connector.
Pulling the FFC with the force of 10N or more may damage the connector.
It may also cause FFC breakage. Take a caution to avoid pulling the FFC.

Repetitive FFC strokes could also cause FFC breakage as well.
Do not use the connector under the environment of repetitive FFC strokes.



Repetitive FFC strokes

Take enough bend radius and/or distance from the connector for FFC not to apply stress to the connector base when the application requires FFC bend back.



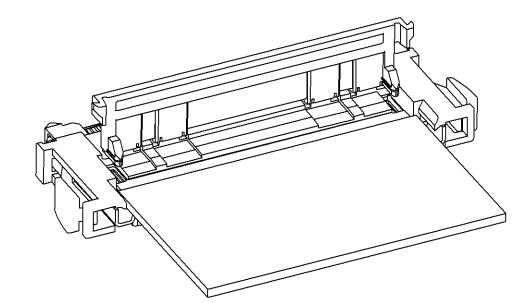
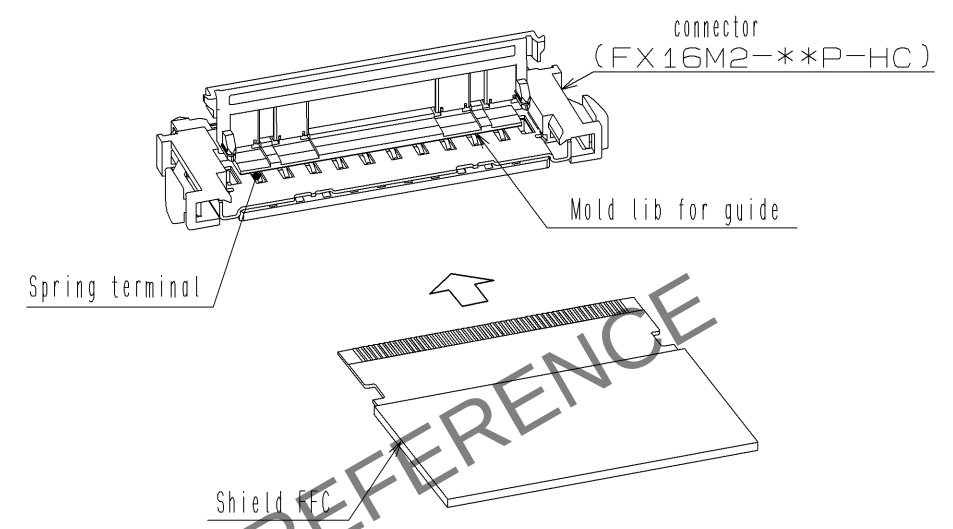
Application of FFC bend back

PRECAUTIONS FOR HARNESS

*Please make sure not to touch conductor of FFC and metal lock.

【1】 How to insert FFC

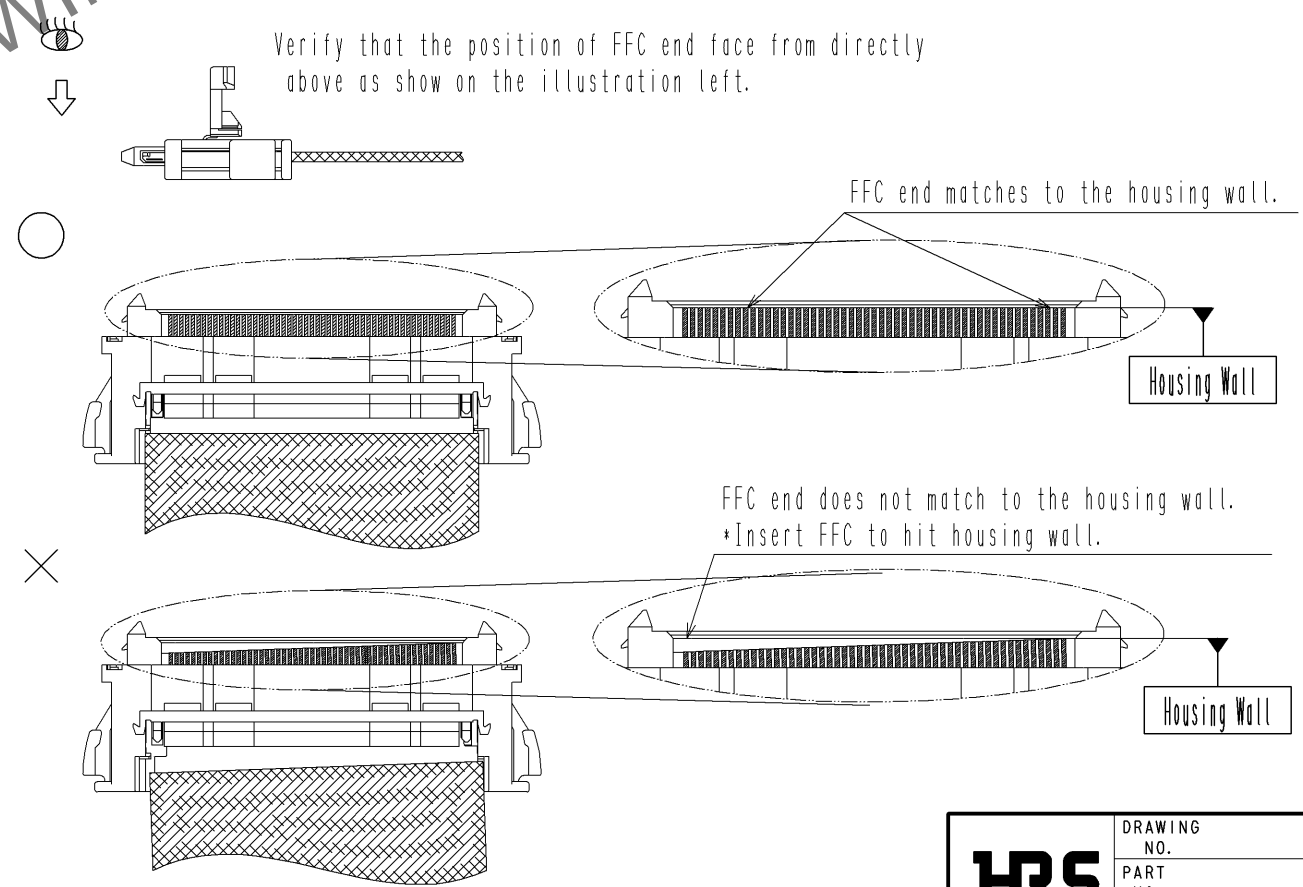
FFC needs to be inserted straight in alignment with mold lib as shown on illustration below.
In case FFC is inserted wrong direction, FFC can not be inserted.
In the worst case, FFC will be deformed, plastic housing, spring terminal will be broken, so please be aware of these points.



After FFC Inserted

【2】 How to check FFC inserted position

Verify that the position of FFC end face from directly above to check whether FFC inserted to correct position
*When FFC inserted correctly, FFC end face hits the wall of plastic housing.

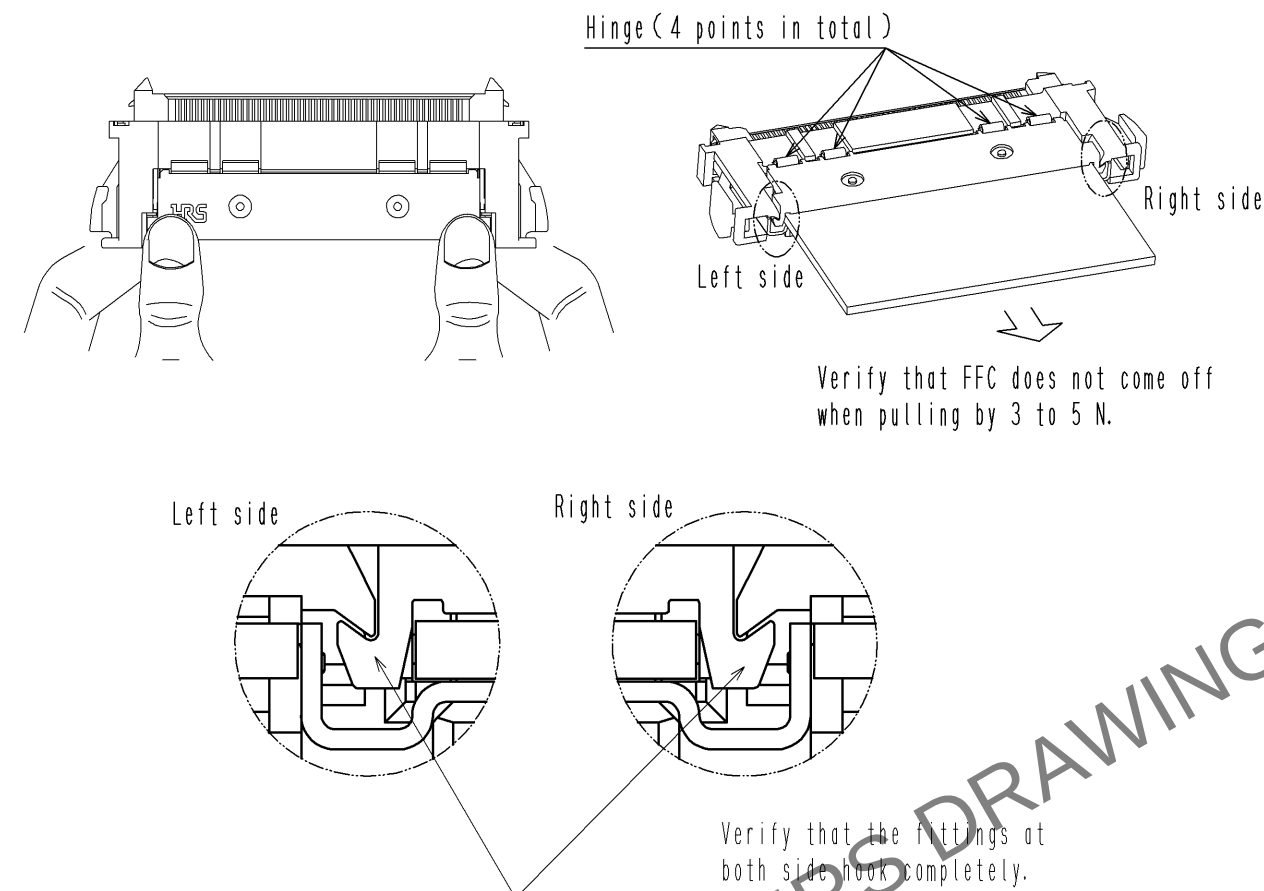


*NOTE: The figures of the connector shown herein are described with a representative number of contacts just for operation instruction. Therefore, the appearance could differ from the actual connectors.
Refer to the drawing for the actual design (sheet 1).

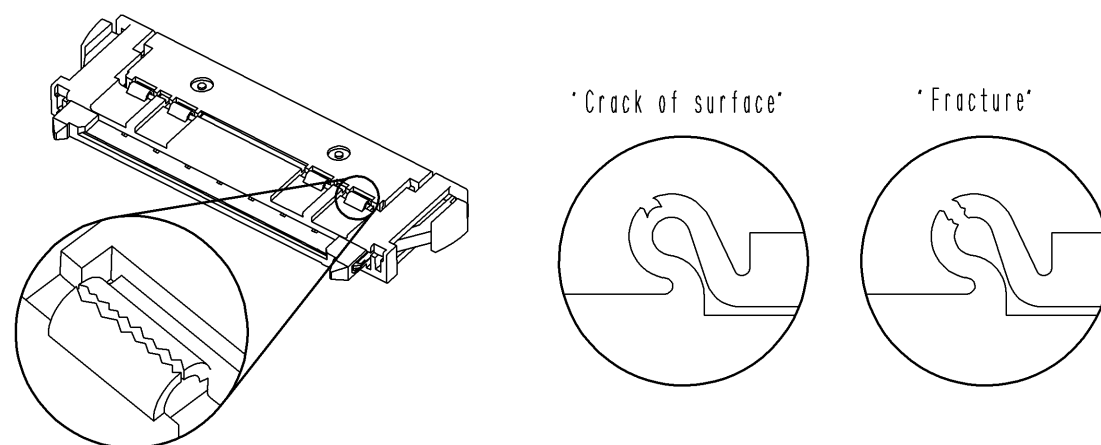
HRS	DRAWING NO.	EDC3-327150-00	3/4/6
	PART NO.	FX16M2-51P-HC	
	CODE NO.	CL575-3263-0-00	

【3】 How to fix FFC

Hold the connector with both hands and put the thumb near the hook of both sides of the hinged actuator as shown in the figure below.
Then push down both sides of the hinged actuator at the same time.
After closing hinged actuator, hold both sides of the plastic housing and pull the FFC to FFC layout direction by 3 to 5N, then verify that FFC does not come off from the plastic housing and fit to both side hooks completely.

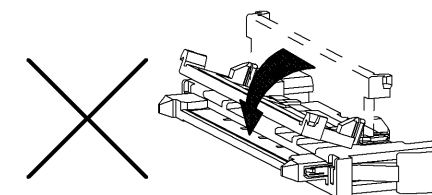


Crack or fracture on hinge connection generated after closing hinge actuator is acceptable, provided that it is only 1 of 4 points, which does not influence the connection performance. However, crack or fracture on more than 2 hinge connections affect FFC retention force, therefore avoid using the connector.



【4】 Other precautions

- ① Do not apply forces to the hinged actuator to the direction as shown below, and also avoid closing it to the locked position until the correct process in cable assembly. Do not use the connector when this happens.



- ② Once removing the FFC from the plug housing after cable assembly, do not reuse.
- ③ For the packing of the plug after cable assembly, do not damage and/or deform the product.

*NOTE: The figures of the connector shown herein are described with a representative number of contacts just for operation instruction. Therefore, the appearance could differ from the actual connectors. Refer to the drawing for the actual design (sheet 1).

HRS	DRAWING NO.	EDC3-327150-00
	PART NO.	FX16M2-51P-HC
	CODE NO.	CL575-3263-0-00
		△ 5/6

Oct.1.2025 Copyright 2025 HIROSE ELECTRIC CO., LTD. All Rights Reserved.
In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

