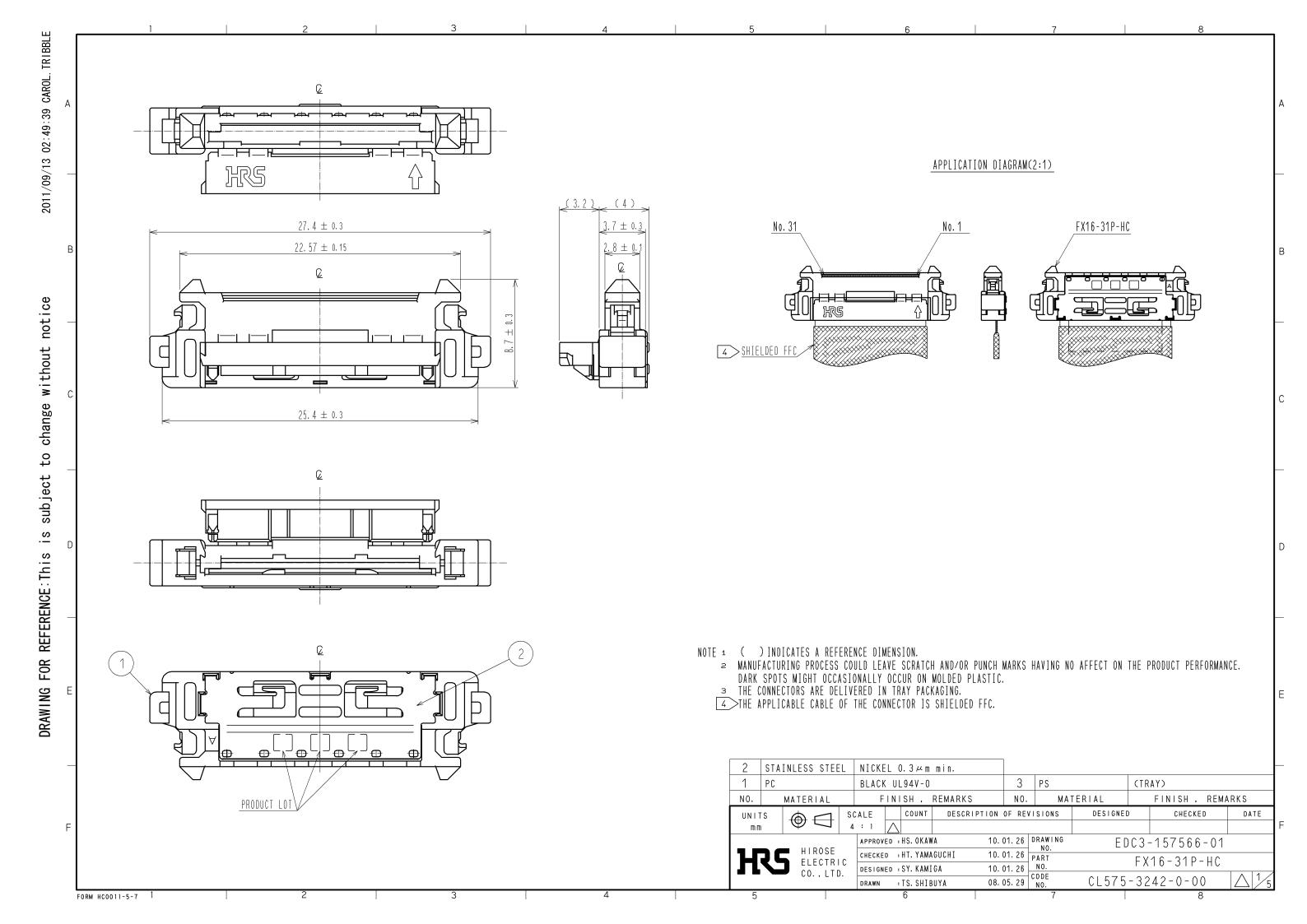
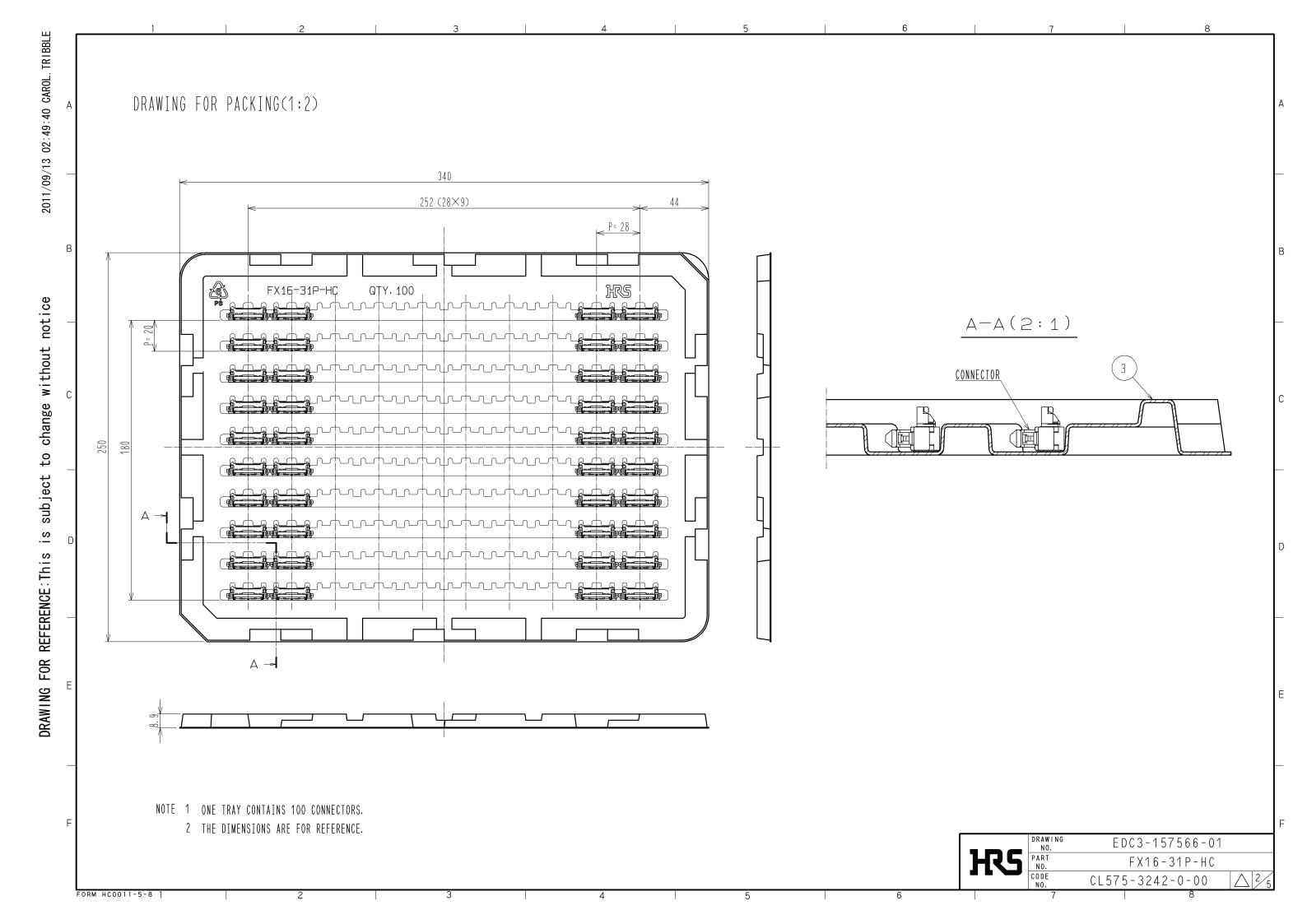
MERLICA	BLE STAN	IDARD							
$  \Lambda  $	OPERATING TEMPERATUR		-55 °C TO 85 °C (1) (2) TEI		STORAGE TEMPERATURE RANGE STORAGE HUMIDITY RANGE		-10 °C TO 60 °C		
	OPERATING H RANGE								
VOLTAGE		60 V AC (5)		CURRENT			0.5A <sup>(5)</sup>		
	APPLICABLE (	CABLE FFC (6)							
		SPE	CIFICA	TION	IS				
	EM	TEST METHO	D			REQU	UREMENTS	QT	AT
CONSTRU		L WOLLAND BY MEACUBING	NOTOLINAEN	ıT	140001		DANAUNIO	Τx	1
GENERAL E MARKING	XAMINATION	CONFIRMED VISUALLY.	LY AND BY MEASURING INSTRUMENT.			ACCORDING TO DRAWING.			×
	C CHARAC	CTERISTICS						×	1
CONTACT R	RESISTANCE	20 mV MAX, 1 mA(DC OR				80 mΩ MAX. <sup>(7)</sup>			
INSULATION RESISTANC		100 V DC.	00 V DC.			500 MΩ MIN.			
VOLTAGE P		200 V AC FOR 1 min.			NO FLA	ASHOVER OF	R BREAKDOWN.	×	
_		RACTERISTICS							
	AL FORCES	MEASURED BY APPLICABLE CON			WITHD		RCE: 1.55 N MIN.	×	
MECHANICA OPERATION		50 TIMES INSERTIONS AND EXT	TIMES INSERTIONS AND EXTRACTIONS.			<ol> <li>CONTACT RESISTANCE:     NO VARIATION OF 20 mΩ OR MORE     FROM INITIAL VALUE.</li> <li>NO DAMAGE, CRACK AND LOOSENESS</li> </ol>			
VIBRATION		FREQUENCY 10 TO 55 Hz, SINGL AMPLITUDE : 0.75 mm, AT 2 h FOR 3 DIRECTION.	NGL AMPLITUDE : 0.75 mm,			OF PARTS.  ① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			
SHOCK		490 m/s <sup>2</sup> , DURATION OF PULS	0 m/s <sup>2</sup> , DURATION OF PULSE 11 ms						
LOCK STRE	NGTH	I	T 3 TIMES FOR 3 DIRECTIONS.  TE TO APPLICABLE CONNECTOR AND APPLY  LL FORCE HORIZONTALLY			30 N MIN.			
FFC RETEN	TION FORCE	ASSEMBLE APPLICABLE FFC AN	SSEMBLE APPLICABLE FFC AND PULL ORIZONTALLY WITH 10mm/min IN MATING			10 N MIN. <sup>(6)</sup>			
ENVIRON	IMENTAL (	CHARACTERISTICS						-	1
DAMP HEAT		EXPOSED AT 40±2 °C, 90 ~	ED AT 40±2 °C, 90 ~ 95 %, 96 h.			① CONTACT RESISTANCE:			
(STEADY ST DRY HEAT	IAIE)	EXPOSED AT 85±2 °C, 96 h			NO VARIATION OF 20 mΩ OR MORE FROM INITIAL VALUE.				
RAPID CHANGE OF TEMPERATURE		TEMPERATURE $-55 \rightarrow +5 \sim +35 \rightarrow +85 \rightarrow +5 \sim +35 \circ C$ TIME $30 \rightarrow 5 \text{ MAX} \rightarrow 30 \rightarrow 5 \text{ MAX min.}$ UNDER 5 CYCLES.			$-$ ② INSULATION RESISTANCE: 500 M $\Omega$ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			×	
			OSED IN 5 % SALT WATER SPRAY FOR 48 h.			① CONTACT RESISTANCE:			
SULFUR DIC	OXIDE	EXPOSED IN 25 PPM FOR 96 (TEST STANDARD: JIS C 60068)				NO VARIATION OF 20 mΩ OR MORE FROM INITIAL VALUE.  ② NO DEFECT SUCH AS CORROSION WHICH IMPAIRS THE FUNCTION OF CONNECTOR.			
COUN	JT F	L DESCRIPTION OF REVISIONS		DESIG	I NED		CHECKED	   DATE	
1 2		DIS-F-004353		KN, SHI			HT. YAMAGUCHI		12, 15
REMARKS  (1) INCLUDE TEMPERATURE RISE CAUSED BY CURRENT-CARRYING.				, 0111	APPROVED HS. OKAWA		09. 10. 09		
(2) OPERATING TEMPERATURE SHOULD BE -55 TO 40°C WHEN HUMIDITY EXCEEDS 80% RH. (3) THE SPECIFICATION IS APPLIED TO THE PRE-ASSEMBLED COMPONENT AND THE CABLE ASSEMBLED PRODUC BOTH IN DELIVERY AND STORAGE, BEFORE ASSEMBLED TO PCB.  (4) THERE MUST NOT BE DEWFALL.			PRODUCT	HT. YAMAGUCHI			09. 1	10. 09	
(4) HERE MUST NOT BE DEWFALL. (5) IT IS THE MAXIMUM VALUE OF CONNECTOR. CONFIRM THE SPECIFICATION OF THE CABLE. (6) ONLY FFC THAT PROCESSES THE TERMINAL THAT WE SPECIFIED. (7) DON'T INCLUDE CONDUCTOR RESISTANCE OF CABLE.							SY. KAMIGA	09. 10. 09	
Unless otherwise specified, refer to JIS-C-5402.					DRAWN HK. SUNADOF		HK. SUNADOR I	09. 10. 09	
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			Гest	DF	RAWING NO.		ELC4-157566-		
<del></del>		SPECIFICATION SHEET							
HS		SPECIFICATION SHEET ROSE ELECTRIC CO., LTD		PART	NO.		FX16-31P-HC		ı

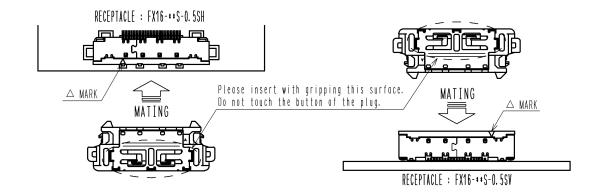




HANDLING INSTRUCTIONS

## [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.



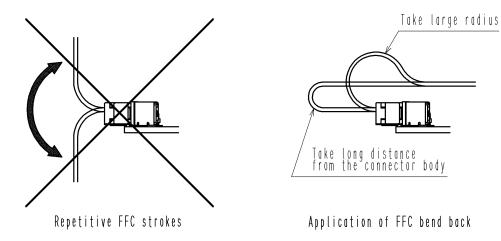
The connectors have a reverse-insertion prevention structure. However, the connectors may be damaged when inserted reversely with the force of 25N or more. Avoid a forceful insertion and make sure to confirm that the connectors are aligned with the marks before the mating operation.

# [2] 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.

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.



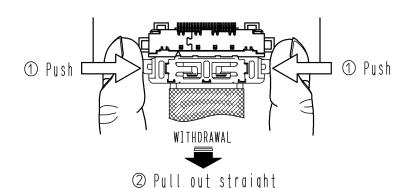
### [3] Withdrawal from on-board connector

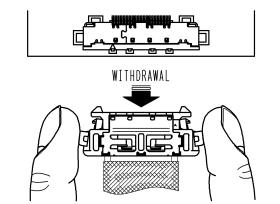
The connectors are locked while they are mated.

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.

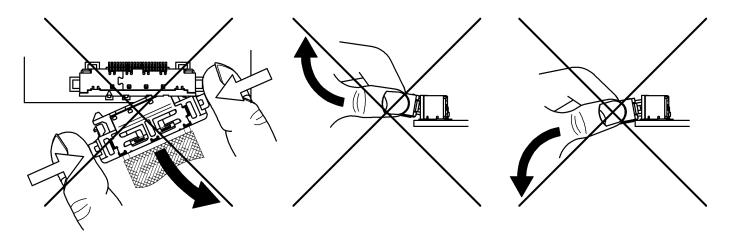
<Correct withdrawal>





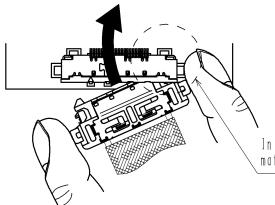
3 Pull out straight with the button pushed

<Incorrect withdrawal>



# $\llbracket 4 Vert$ 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.



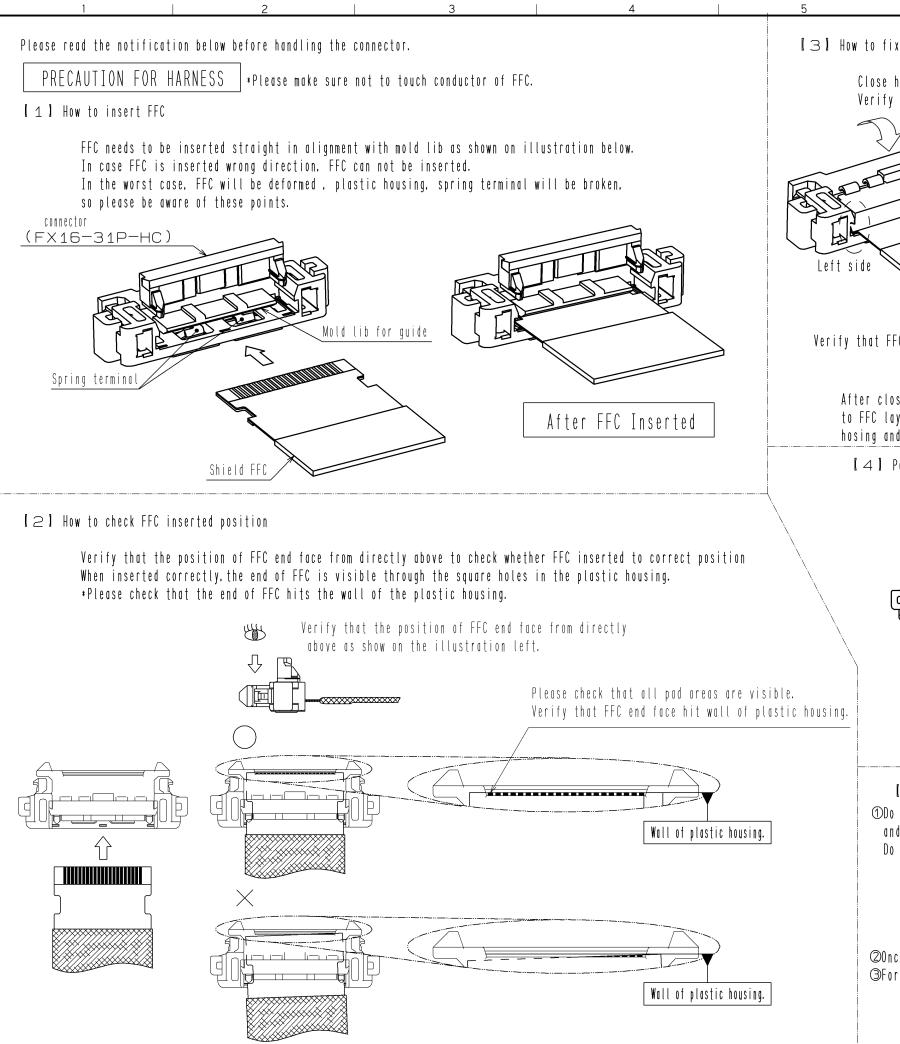
In case connector is withdrawn with lock that is locked on one side, mate the plug again and withdraw with <Correct withdrawal> method.

\*Note: The connectors shown in this 'HANDLING INSTRUCTIONS' are drawn for the instruction purpose. Therefore, the appearance differs from the actual connectors. Please confirm the connector configuration on the connector drawing (SHEET 1).

3		DRAWING NO.	EDC3-157566-01	
	<b>H</b> 25	PART NO.	FX16-31P-HC	
		CODE NO.	CL575-3242-0-00	<u>у</u> 5

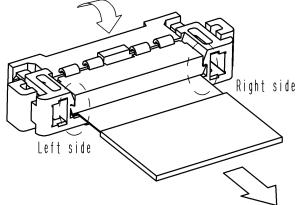
FORM HC0011-5-8

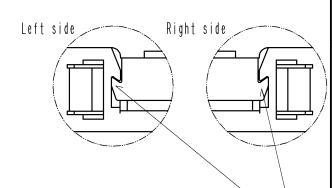
FORM HC0011-5-8



131 How to fix FFC

Close hinged actuator as show on the illustration below. Verify that the fittings at both side hook completely.



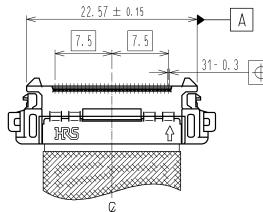


Verify that FFC does not come off when pulling by 3 to 5 N.

Verify that the fittings at both side hook completely.

After closing hinged actuator, holding both side of plastic housing and pulling FFC to FFC layout direction by 3 to 5N, then verify that no FFC coming off from plastic hosing and fittings at both side hook completely.

【4】 Position of contact point after assembly of FFC

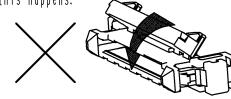


To prevent misalignment of contact pitch, verify that the position of FFC contact point after assembly is within dimension as shown on the illustration.

\*Note : The connectors shown in this 'PRECAUTION FOR HARNESS' are drawn for the instruction purpose. Therefore, the appearance differs from the actual connectors. Please confirm the connector configuration on the connector drawing (SHEET 1).

[5] Other precautions

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.



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

	•	,		
	DRAWING NO.	EDC3-157566-01		
<b>H</b> 25	PART NO.	FX16-31P-HC		
	CODE NO.	CL575-3242-0-00	$\triangle$	4/5
	7	Q		