

# Cautions for soldering

1. Recommended solder

Flux cored solder (Lead-free: Sn-3Ag-0.5Cu)

Micro coaxial cable · · · 0.15 mm dia. Length 15.5 mm

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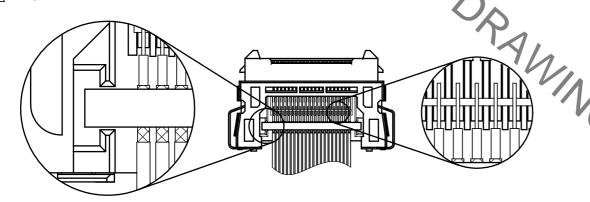
If you consider using additional flux, please pay enough attention not to have flux wicking to the contact area. Flux wicking to the contact area will cause contact failure.

2. Setting the cable

Set the conductors as each conductor is placed at the center of the cantact.

In case of micro coaxial cable, set it as the metal bar fits in the guide on the connector.

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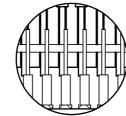
- 3. Place the cable to the connector and check the below points before soldering by pulse heat.
  - Transformation of conductor
  - · Misalignment of conductor to the terminals in pitch direction
  - Excessive floating of conductor

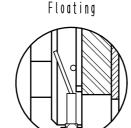
The above could cause soldering failure and/or solder bridge.

Transformation of conductor



Misalignment in pitch direction



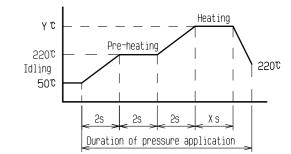


- 4. Follow the recommended temperature profile shown below for the soldering.
  - The optimum condition could vary depending on various factors including type of cable and its length, solder type. Therefore refer to the recommended temperature profile and optimize the condition if necessary.

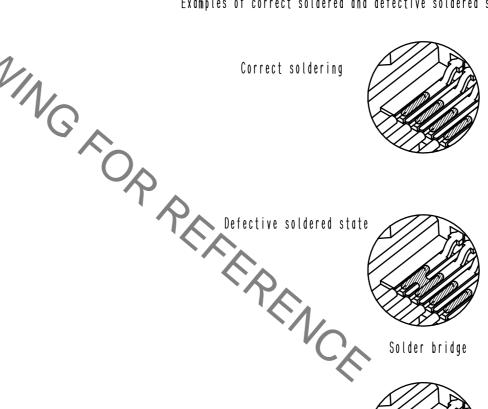
Solder tip pressurization	13 ~ 17 N
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heating	Micro coaxial cable
Temperature (Y)	275± 5 ℃
Duration (X)	2± 0.5 sec

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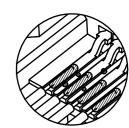
5. After soldering, check that no defect is found at soldered area. Examples of correct soldered and defective soldered state are shown below.



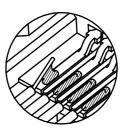
Conductors are placed at the center of the contact, and whole area is equally wetted.



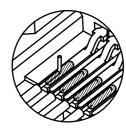




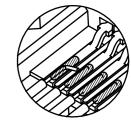
Solder ball dispersion



Floating



Conductor sticking out The conductor approaches



to the adjacent contact

\*Note: The figures shown in this page are solely for the instruction purpose. Therefore the appearance could differ from the actual connectors. Refer to the drawing for the actual design (sheet 1).

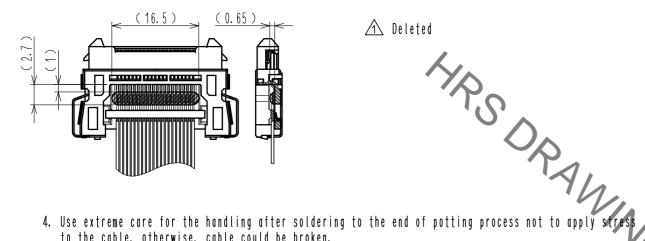
ĸs		DRAWING NO.	EDC3-157674-01		
	PART NO.	FX16-31P-0.5SD			
		CODE NO.	CL575-3302-0-00	$\triangle$	4/6

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## Cautions for potting process

- 1. Protect the soldered area by UV cured resin or any equivalent (referred to as 'potting' hereafter). In order to prevent insulating failure caused by metal adhering, cable breakage during cabling and other troubles.
- 2. Apply 3033 manufactured by THREEBOND CO., LTD. or any equivalent product for potting. Follow the instruction of potting manufacture's for the condition of UV exposure.
- 3. Refer to the following conditions for the potting area.



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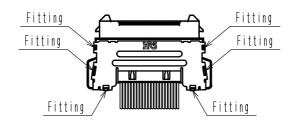
to the cable, otherwise, cable could be broken. Exercise extreme caution during the process so that no resin flows or adheres to the contact area.

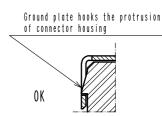
## Cautions for cover shell assembly

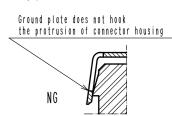
- 1. Attach a cover shell separately provided after the cable assembly process. For micro coaxial cabla : FX16-31P-GND 1 Deleted
- 2. Place the cover shell onto the connector horizontally and pinch two components from top and bottom with fingers.

3. Check the six fitting points after assembly and make sure that they are all correctly fitted together.

### How to check fitting points (Cut section of fitting points)

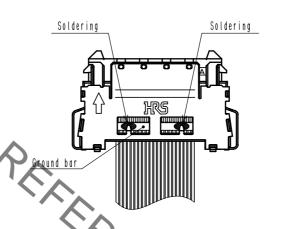






## Soldering to ground plate

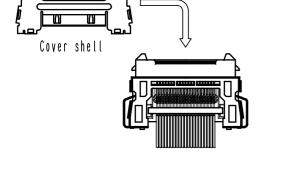
1. Solder down the metal bar of the cable and ground plate after the assembly of ground plate in order to enhance the grounding performance and robustness against cable stroke to up and down direction.



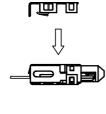
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2. Excess solder and/or excess heating could cause cable and connector deformation and/or melt.

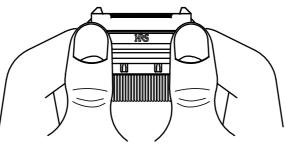
Cable assembly process is completed.



① Prepare the cover shell



② Horizontally from the top



3 Pinch with fingers

\*Note: The figures shown in this page are solely for the instruction purpose. Therefore, the appearance could differ from the actual connectors. Refer to the drawing for the actual design (sheet 1).

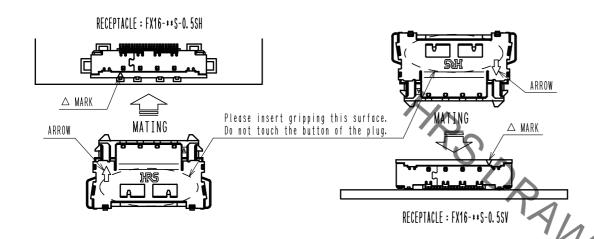
	DRAWING NO.	EDC3-157674-01			
l	HRS	PART NO.	FX16-31P-0.5SD		
<b>■</b>		CODE NO.	CL575-3302-0-00	$\triangle$	5/6
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## HANDLING INSTRUCTIONS

### [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.



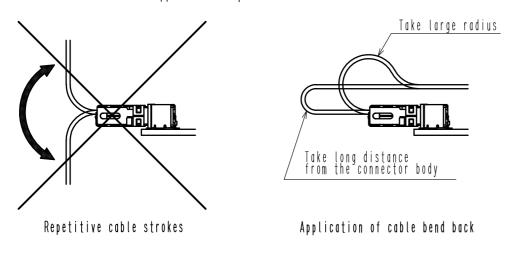
The connectors have a reverse-insertion prevention structure, however, the connectors may be damaged when inserted reversely with the force of 25 N or more. Avoid a forceful insertion, and make sure to confirm that the connectors are aligned with the marks before the mating operation.

### 121 After moting

Carefully wire cables, so that excessive force will not be applied to the mated connectors. Pulling the cable with the force of 20 N or more may damage the connectors. It may also cause cable breakage. Take a caution to avoid pulling the cables.

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

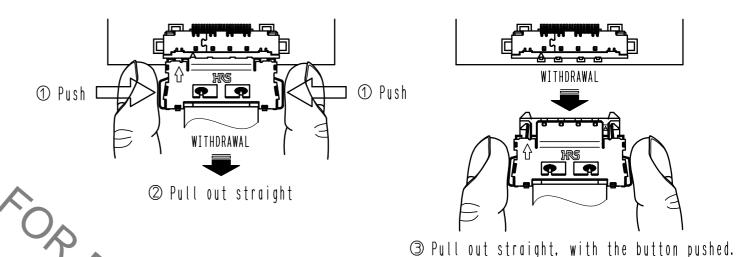
Take enough bend radius and/or distance from the connector for the cable not to apply stress to the connector base when the application requires cable bend back.



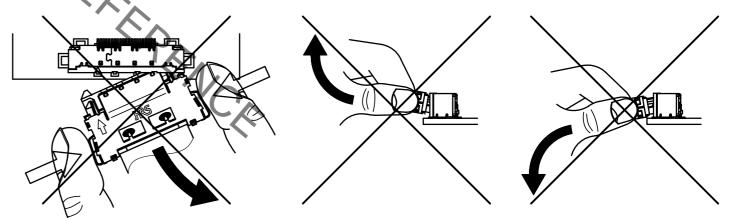
### 【3】 Withdrawal from on-board connector

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

### <Correct withdrawal>







\*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).

	DRAWING NO.	EDC3-157674-01			
	<b>H3</b> 5	PART NO.	FX16-31P-0.5SD		
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