

TRAWING EDC3-157674-01

PART FX16-31P-0.5SD

CODE CL575-3302-0-00 13/6

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FORM HC0011-5-8 1 2 3 4 5

MIS-SOLDERING TO DEFECTIVE PRODUCT.

MINIMIZE THE LENGTH OF OUTER CONDUCTOR BEYOND THE GROUND BAR.
PRE-SOLDER AND COAT THE INNER CONDUCTOR AT THE CABLE END.

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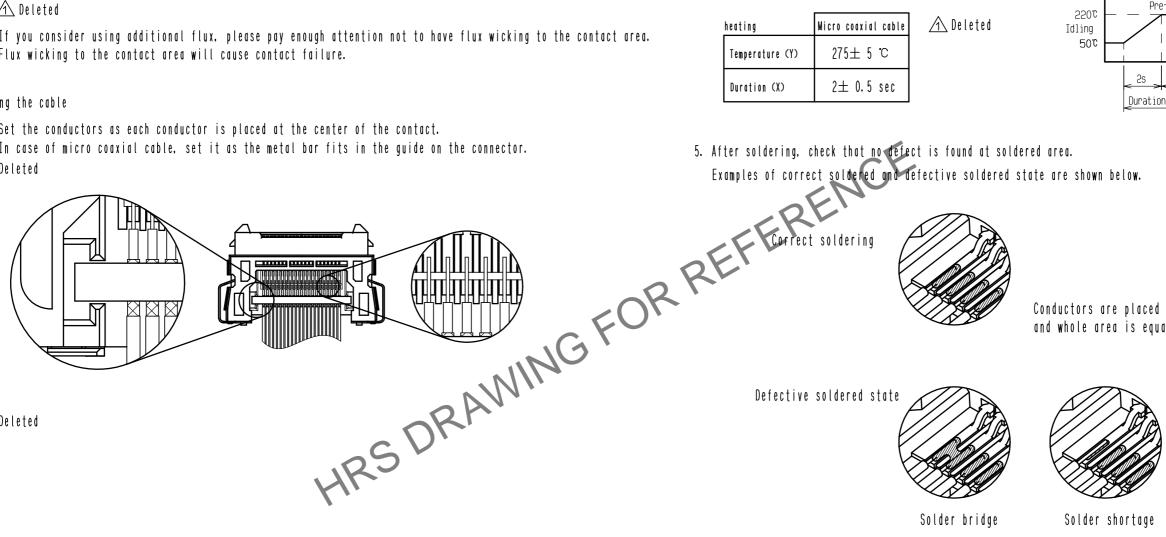
If you consider using additional flux, please pay enough attention not to have flux wicking to the contact area. Flux wicking to the contact area will cause contact failure.

2. Setting the cable

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

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

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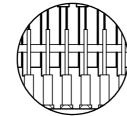
- 3. Place the cable to the connector and check the below points before soldering by pulse heat.
 - Transformation of conductor
 - · Misalignment of conductor to the terminals in pitch direction
 - Excessive floating of conductor

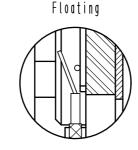
The above could cause soldering failure and/or solder bridge.

Transformation of conductor



Misalignment in pitch direction





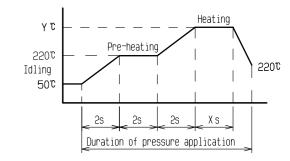
4. Follow the recommended temperature profile shown below for the soldering.

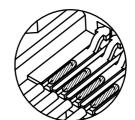
The optimum condition could vary depending on various factors including type of cable and its length, solder type. Therefore refer to the recommended temperature profile and optimize the condition if necessary.

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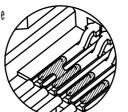
heating	Micro coaxial cable
Temperature (Y)	275± 5 ℃
Duration (X)	2± 0.5 sec

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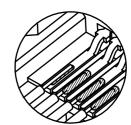




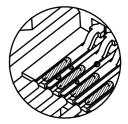
Conductors are placed at the center of the contact, and whole area is equally wetted.



Solder bridge



Solder shortage



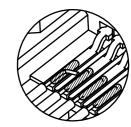
Solder ball dispersion



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).

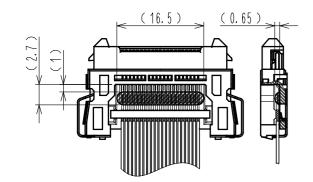
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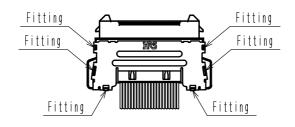
Cautions for potting process

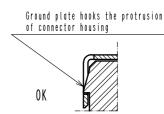
- 1. Protect the soldered area by UV cured resin or any equivalent (referred to as 'potting' hereafter). In order to prevent insulating failure caused by metal adhering, cable breakage during cabling and other troubles.
- 2. Apply 3033 manufactured by THREEBOND CO., LTD. or any equivalent product for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

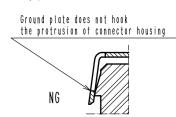


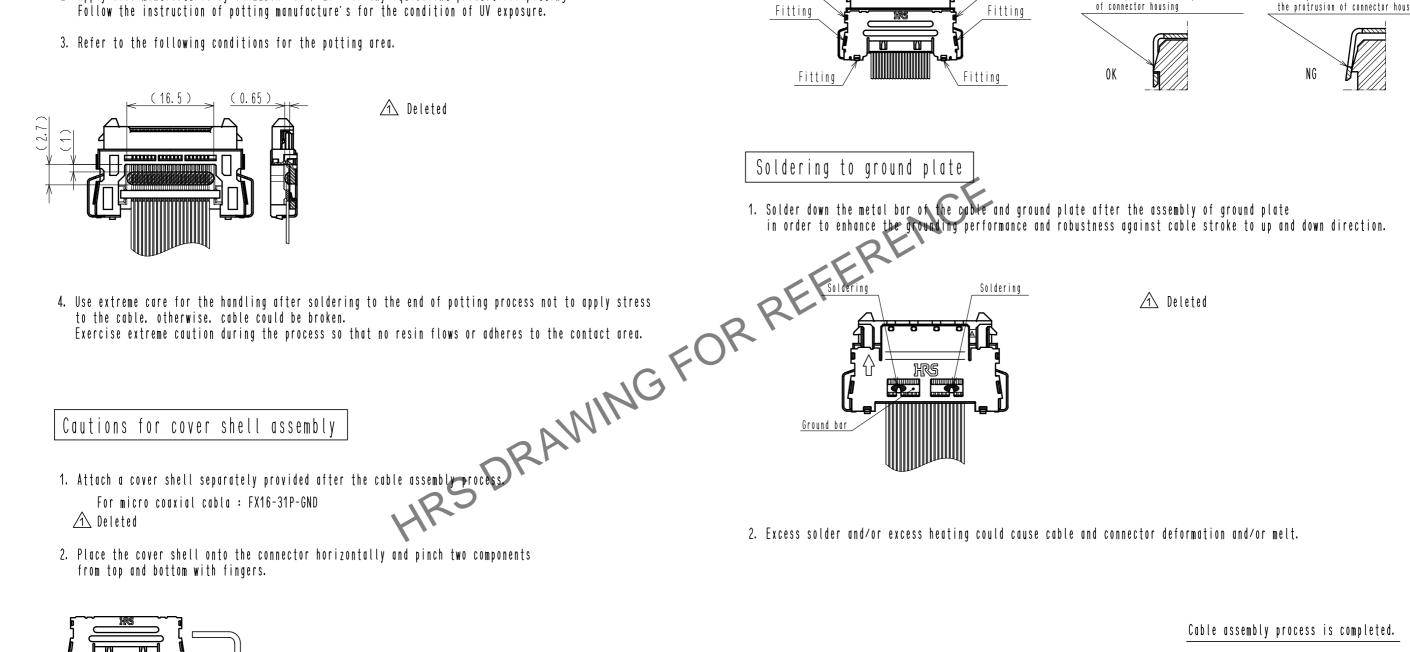
3. Check the six fitting points after assembly and make sure that they are all correctly fitted together.

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





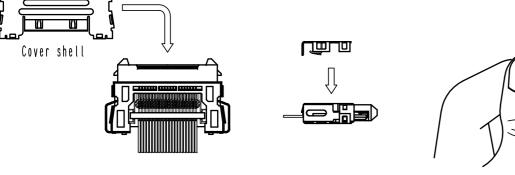




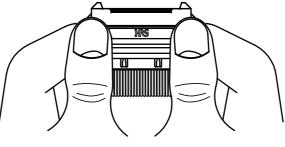
Cable assembly process is completed.

*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).

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① Prepare the cover shell 2 Horizontally from the top



3 Pinch with fingers

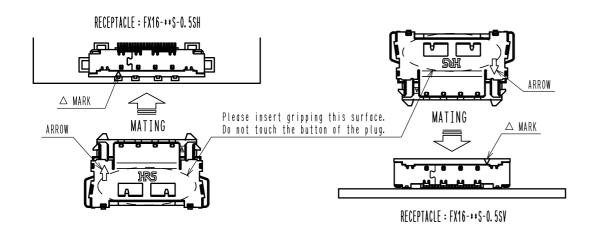
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HANDLING INSTRUCTIONS

[1] Insertion to on-board connector

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



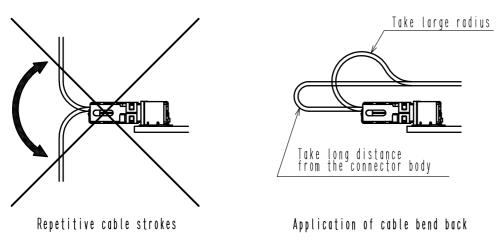
Carefully wire cables, so that excessive force will not be applied to the mated connectors.
Pulling the cable with the force of 20 N or more may damage the connectors. It may also eause cable breakage. Take a caution to avoid pulling the cables.

Repetitive cable strokes could also cause cable breakage as well. Do not une the cable strokes cable strokes.

Ake enough bend radius and/or districtive connector has a cause cable strokes.

[2] After mating

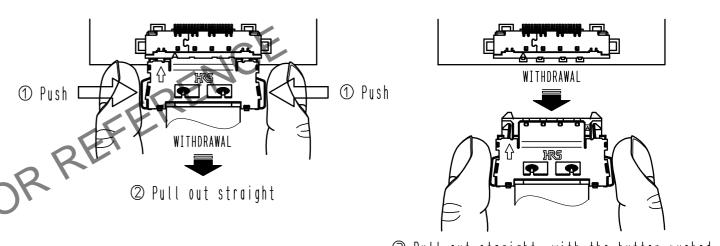
the connector base when the application requires cable bend back.



[3] Withdrawal from on-board connector

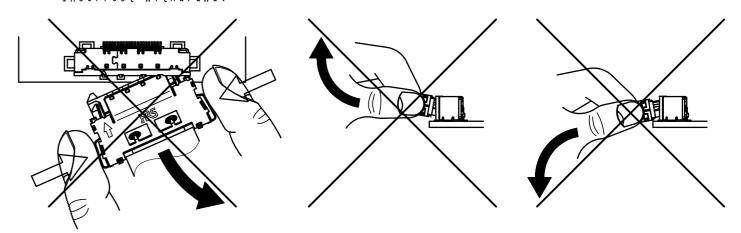
The connectors are locked while they are mated. In order to unmate the connectors, pull out straight, with the button pushed to release the lock. At this time, do not pull the cable. Also, avoid the withdrawal in angle, which may damage the connectors.

<Correct withdrawal>



3 Pull out straight, with the button pushed.

<Incorrect 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).

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