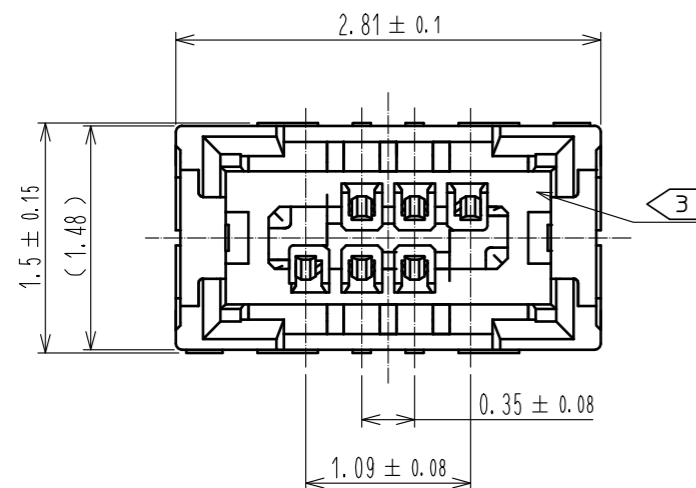
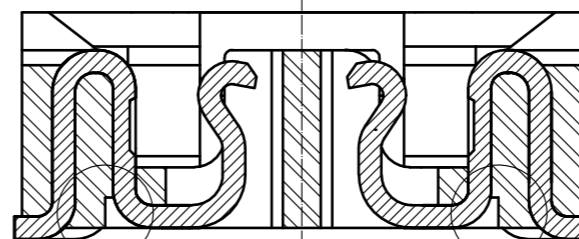


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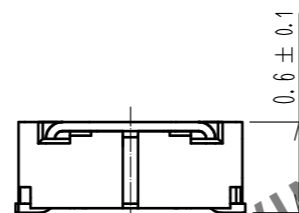
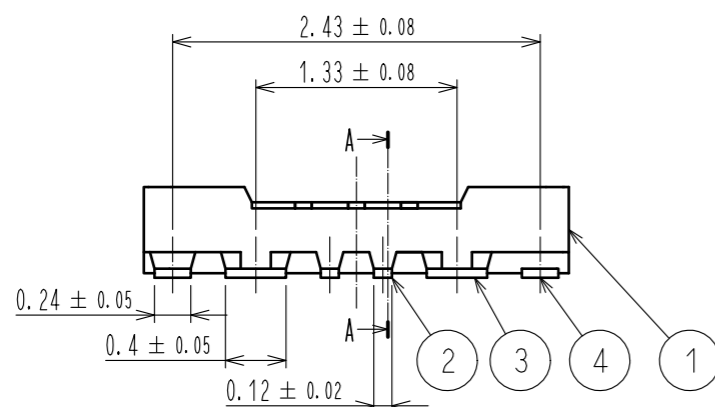
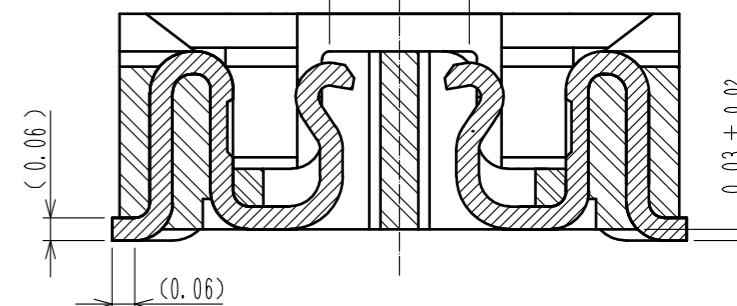
Solder wicking prevention



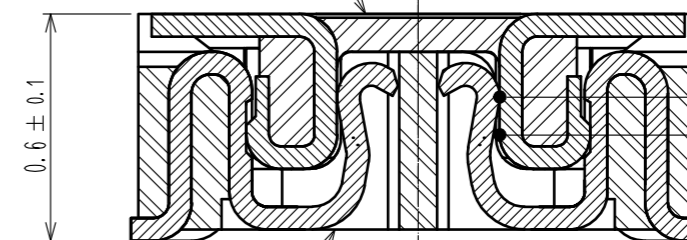
Gap-less insertion molding structure stops solder wicking.

A-A(50:1)

Pick and place area: 0.37



BM29B-4DP/2-0.35V



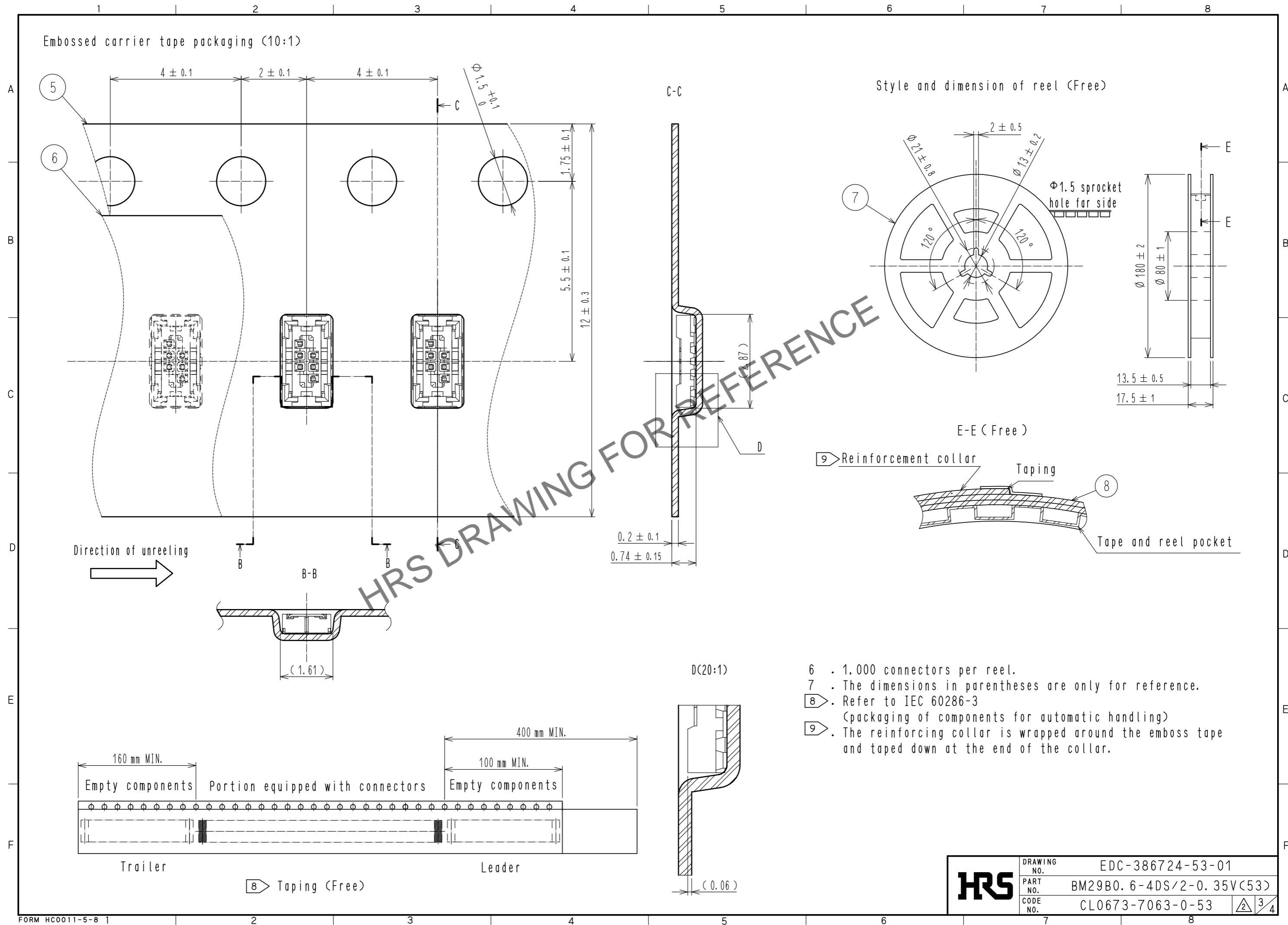
BM29B0.6-4DS/2-0.35V

Effective mating length  
(Power contact, Signal contact)

- NOTE 1 . All lead co-planarity will be 0.08mm MAX.  
2 . Contact plating specifications  
Contact area : Gold 0.05μm MIN  
SMT lead : Gold 0.05μm MIN  
Under plating : Nickel 1μm MIN  
(Surface : Sealing)  
3 . Cavity number is indicated at approximate location.

|                           |                 |                        |            |  |                                   |
|---------------------------|-----------------|------------------------|------------|--|-----------------------------------|
| 4                         | PHOSPHOR BRONZE | 2                      | 8          | PS   | CLEAR, REINFORCEMENT COLLAR       |
| 3                         | PHOSPHOR BRONZE | 2                      | 7          | PS   | BLACK, PLASTIC REEL               |
| 2                         | PHOSPHOR BRONZE | 2                      | 6          | POLYESTER                                  | CLEAR, COVER TAPE                 |
| 1                         | LCP             | UL94 V-0, BLACK        | 5          | PS   | SMOKE GRAY, EMBOSSED CARRIER TAPE |
| NO.                       | MATERIAL        | FINISH , REMARKS       | NO.        | MATERIAL                                   | FINISH , REMARKS                  |
| UNITS<br>mm               |                 | SCALE<br>20: 1         | COUNT<br>1 | DESCRIPTION OF REVISIONS<br>DIS-H-00019138 | DESIGNED<br>RT. OSAKI             |
| HIROSE ELECTRIC CO., LTD. |                 | APPROVED : WR. FUKUCHI | 20210423   | DRAWING NO.                                | EDC-386724-53-01                  |
|                           |                 | CHECKED : TS. MIYAZAKI | 20210423   | PART NO.                                   | BM29B0.6-4DS/2-0.35V(53)          |
|                           |                 | DESIGNED : RT. OSAKI   | 20210423   | CODE NO.                                   | CL0673-7063-0-53                  |
|                           |                 | DRAWN : RT. OSAKI      | 20210423   |  |                                   |
|                           |                 |                        |            |  | DATE<br>20230915                  |

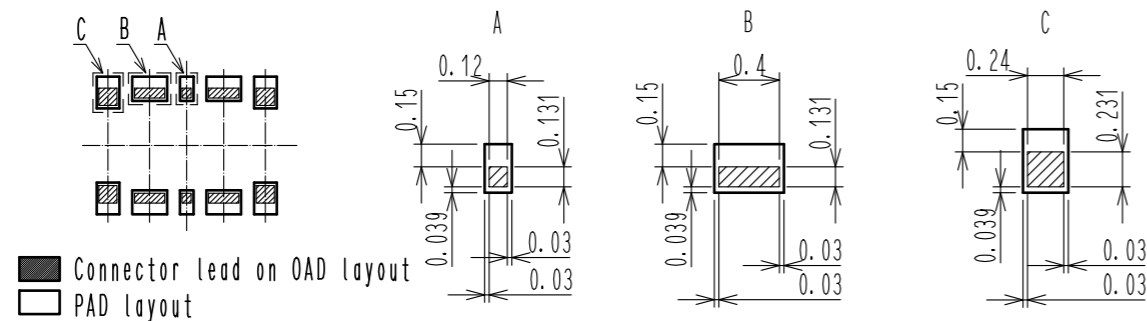




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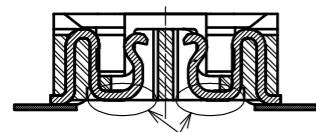
10. Please refer to the product guideline ETAD-H1016 for detail of connector handling.

### The position between the connector and PAD



### Caution for soldering

There is metal exposure area bottom of the connector.  
To avoid solder wicking from the bottom side, please design PCB PAD and stencil with recommended dimensions.

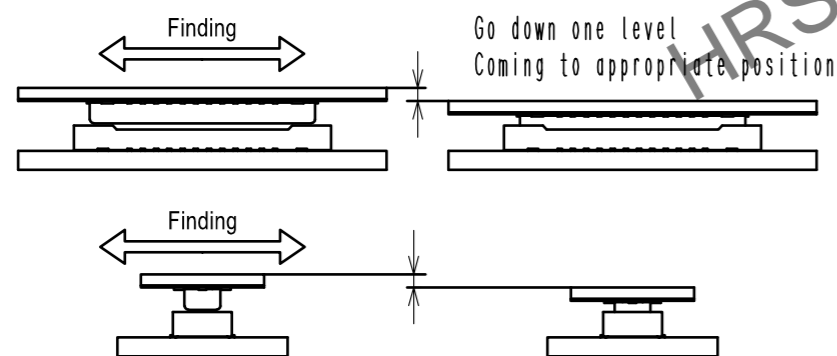


### Mating method

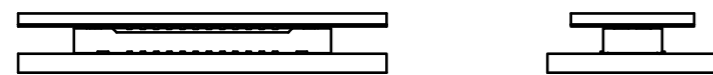
Please mate the connector by hand.

#### Mating procedure

- (1) Find the alignment area to the connector in the appropriate mating position.  
This connector has an alignment chamber (guidance ribs) on receptacle side and "T" on plug side, so that the connector will be self-aligned.  
When the connector comes to the appropriate position, the connector goes into the aligned position.  
When aligned, it can be felt by hand.



- (2) When guiding, the connectors are aligned parallel to each other, with longitudinal and lateral movements restricted. Mate them properly by applying force in this condition.

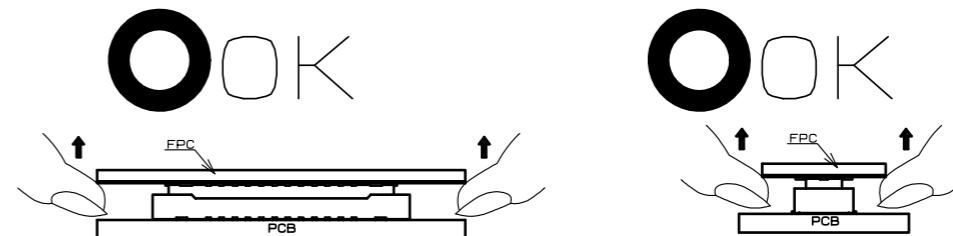


- (3) Make sure the connectors are mated correctly. If one side is floating or the connectors are mated in one direction, un-mate them once, and then mate them again, following the procedures above from the beginning.

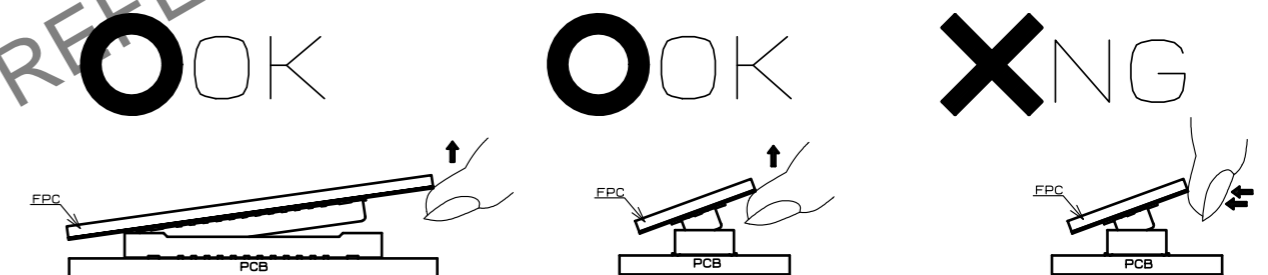
### Un-mating method

Please un-mate the connector by hand

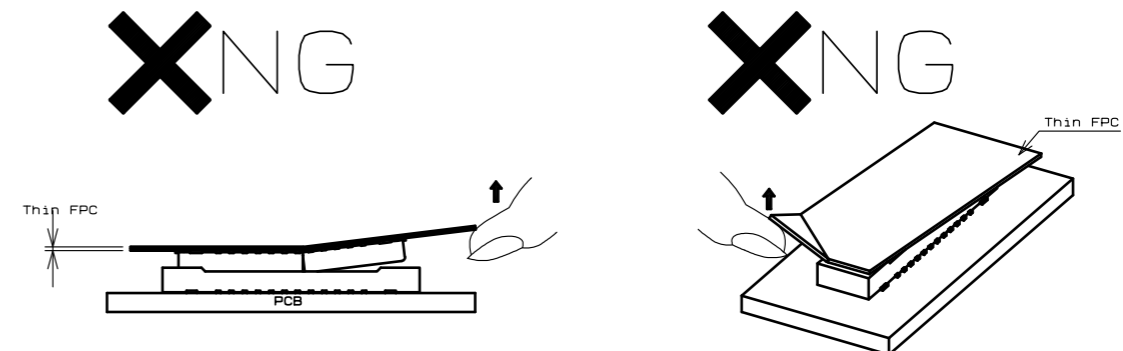
- (1) Un-mate the connectors parallel to each other. However, if the connectors have high pin counts or thinner FPC and stiffener, it becomes more difficult to do so.



- (2) If the connector cannot be un-mated parallel it can be removed diagonally from the pitch direction. Be careful to do so since this action applies stress on the contact.



- (3) If the FPC is not rigid, The connector can be broken. Please check the action of the FPC to be used repeatedly at the time of trial production. be careful to un-mate them from the pitch direction, pulling it from the corner can also risk to putting stress on contacts.



HR5

|             |                           |
|-------------|---------------------------|
| DRAWING NO. | EDC-386724-53-01          |
| PART NO.    | BM29B0. 6-4DS/2-0.35V(53) |
| CODE NO.    | CL0673-7063-0-53          |

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