

NUMBER BJM-HFWR101	TYPE General Application Specification	Amphenol ICC	
TITLE 1.0mm Pitch FPC / FFC Connector HFW__R-1/2ST_E__LF		PAGE 1 of 4	REVISION C
		AUTHORIZED BY S.Watanabe	DATE 26/Dec./2018
		CLASSIFICATION UNRESTRICTED	

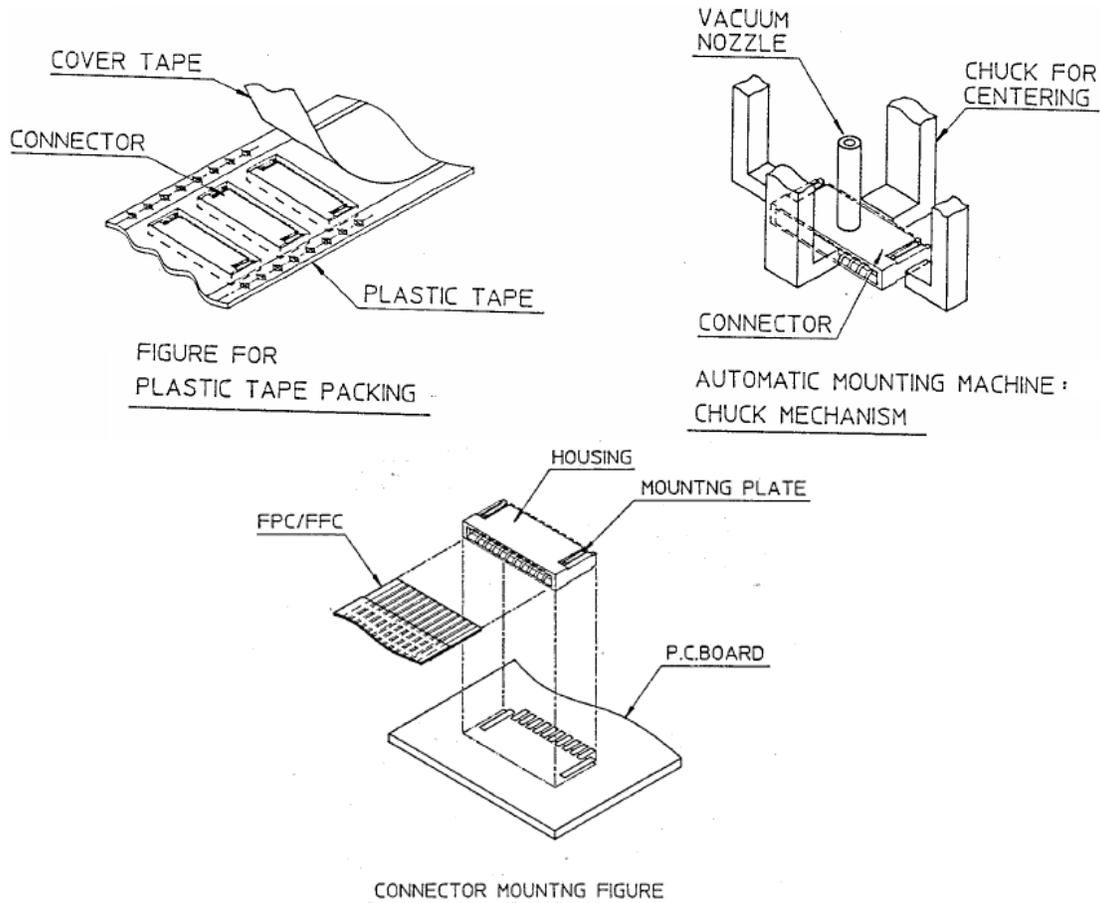
1. Scope

This specification summarizes the important items for using the 1.0mm pitch connector for FPC/FFC "HFW-R Series". Before this connector is used, please be sure to look through these specifications.

2. Application product

TITLE	Product No.
1.0mm pitch SMT type connector for FPC/FFC "HFW-R Series"	HFW__R - _ST_E__LF

3. Each part name



NOTE) Please refer to the drawings attached to the specification for details of dimensions etc.

4. Recommendation PCB pattern and Application conductor (FPC/FFC)

Refer to each drawing.

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5. Mounting method to PCB

This connector has adopted the form of automatic mounting and the surface mount match. Therefore, please mount the connector to PCB with the automatic mounting machine. Then, please perform reflow soldering by the following our company recommendation conditions.

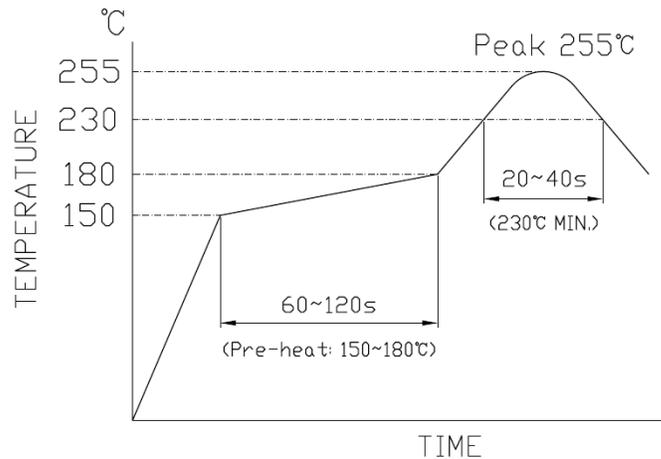


Fig.2 Recommendation reflow temperature profile

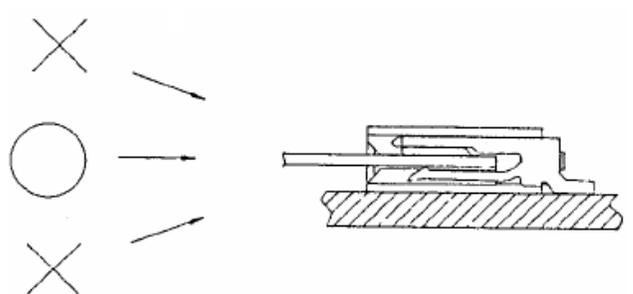
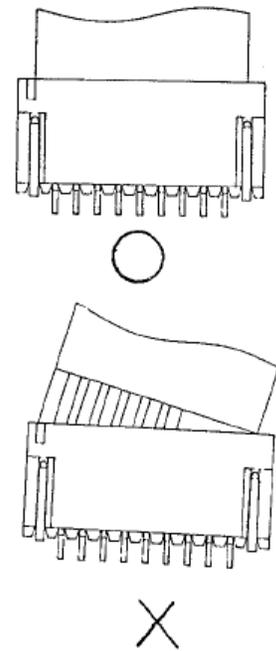
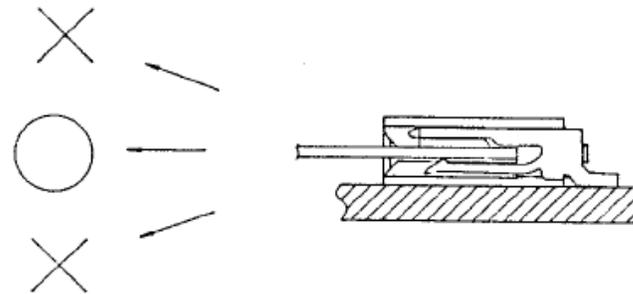
No.	Procedure	Remarks
5-1	<p>Solder Paste Printing Print solder paste with appropriate quantity on P.C. B pattern. <Recommended solder paste></p> <ul style="list-style-type: none"> • JIS Z 3282 Sn96.5 Ag3.0 Cu0.5 • Stencil thickness: 0.15 ~ 0.2mm. 	<ul style="list-style-type: none"> • Please refer to the drawing attached to the specification for recommended P.C.B pattern dimensions. • Please print solder paste with appropriate quantity by adjusting thickness of stencil.
5-2	<p>Mounting on P.C.Board By using automatic mounting machine (One by one system) which copes with plastic tape packing. Mount the connector on predetermined position on P.C.Board coated with solder paste.</p>	<ul style="list-style-type: none"> • Please confirm carefully mounting accuracy of automatic mounting machine and dimensional accuracy of P.C.B. • Use by selecting adequate one for vacuum nozzle diameter of automatic mounting machine.

Notes:

5.3 Appropriate quantity of solder paste should be applied so that neither the flux nor solder gets into the inside of the connector. If flux or solder gets into the connector, contact fault, performance degradation, etc may occur.

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6. Operation method

No.	Procedure	Remarks
6-1	<p>Connection of conductor (FPC/FFC)</p> <p>1) Match conductive side of conductor (Finger portion) to connecting side of connector.</p> <p>2) Insert conductor straight horizontally into P.C. Board from connector insertion window until it hits inner bottom of housing.</p> 	<p>At the condition of being connector inserted the conductor must be vertical to the connector by all means.</p> 
6-2	<p>Extracting conductor (FPC/FFC)</p> <p>Extracting conductor straight horizontally for P.C.Board.</p> 	<p>Please pay special attention in case of removing the conductor to slant direction</p>

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7. Other handling notes

- 7.1 When cable is pulled by excessive force or twists too much after cable insertion, connector deformation, contact fault, performance degradation, breakage, etc may occur.
Do not apply excessive force to the cable after cable insertion.
- 7.2 Ensure connector is properly mounted and secured onto PCB.
If force is continually being applied to the connector, cracks on soldering area, connector deformation, contact fault, performance degradation, breakage, etc may occur.
- 7.3 Please do not insert cable prior to soldering process.
- 7.4 Please do not insert any other items into the connector except the specified cable.
- 7.5 If force is applied to the connector prior to mounting, connector deformation, contact fault, performance degradation, breakage, etc may occur.
(include insertion of application cable before mounting, etc)
- 7.6 Any rework soldering by manual soldering process should not be applied directly to the connector insulator.
Maximum conditions should be 350degC at soldering tip and a heating time of not more than 2 seconds.
When using solder thread for rework process, take note of solder and flux should not leak into the connector.

8. Handling in storage of the connector

- 8.1 Please avoid contact terminals from contact with dust, oil, water, etc as it may affect the connector performance.
- 8.2 Please avoid direct sun-light as it may cause deformation of packing material, connector discoloration and poor contact and solder performance.
- 8.3 Recommendation conditions.
If stored for long periods under high temperature and humidity, it will impact to the connector performance.
Therefore please keep the connector at the following recommended conditions.
In addition, when kept out of the following condition, please confirm the performance of the connector before use. (In that case, please consult to our company as much as possible.)

<Recommendation storage conditions>

Temperature : 30 degrees C MAX.
Humidity : 60%RH MAX.
Period : Less than three months

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REVISION RECORD

<u>REV</u>	<u>PAGE</u>	<u>DESCRIPTION</u>	<u>EC#</u>	<u>DATE</u>
A	All	Released		11 Feb. 1998
B	All	Change to correct format to match with current status.	ECN-J-22450	10 Nov. 2015
C	All	Change to new format. Change product number	ECN-J-32265	26 Dec. 2018