

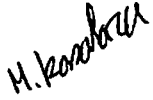
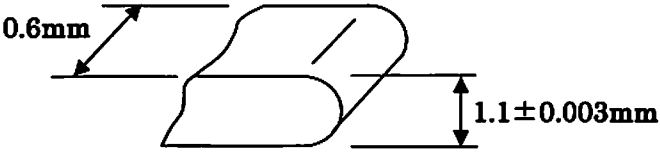
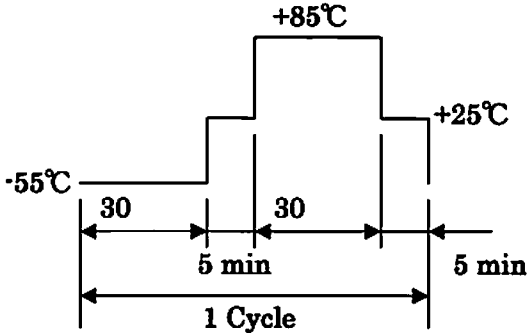


HONDA TSUSHIN KOGYO CO., LTD. TOKYO JAPAN		SHEET		1 OF 4			
		DATE		Oct.9,2012			
PRODUCT SPECIFICATION 0.8mm SPACING HIGH DENSITY CONNECTOR FOR BOARD TO CABLE. RoHS compliant		APPROVED BY		CHECKED BY	WRITTEN BY		
		 Y.KATO		 S.WATANABE	 M.KASAHARA		
<u>CONNECTOR PART NO.</u>							
TYPE		PART NO.		NOTE			
Board to Cable	Board side	Male	HDR-EC26LMDTG()-(+)	Right angle DIP connector with locking post and board lock pin			
	Cable side	Female	HDR-E26FAG1+	IDC type connector Wire accommodation size : #30 AWG (7/0.1) O.D 0.5~0.65			
	Cable cover		HDR-E26(LP) HDR-E26(LP)+	Shielded cover with shell, boot case and locking clip			
<u>CHARACTERISTICS</u>							
No.	ITEM		SPECIFICATION				
1	Current Rating		0.5 amp DC maximum, per contact				
2	Voltage Rating		125 volts AC (r.m.s.)				
3	Operating Temperature		-55°C~85°C(Board to Board type), -40°C~70°C(Board to Cable type)				
4	Storage Temperature		-55°C~85°C(Board to Board type), -40°C~70°C(Board to Cable type)				
5	Humidity		90%RH maximum				
6	Insulation Resistance		When tested in accordance with Method 302 of MIL-STD-202F, the insulation resistance shall be a minimum of 500 MΩ at 250 volts DC.				
7	Dielectric Withstanding Voltage		When tested in accordance with Method 301 of MIL-STD-202F, there shall be no breakdown of insulation or flashover at 350 volts AC (r.m.s.) for a minute.				
	Contact Resistance		When tested in accordance with Method 3004 of MIL-STD-1344, the contact resistance shall not exceed 70mΩ including the conductor resistance.				
Wistron			LTR.	DATE	BY	REV.DESCRPT	APPR.

No.	ITEM	SPECIFICATION												
9	Female Contact Insertion and Pulling Force (Individual)	<p>○Insertion Force The force required to insert the test gage into any contact shall not exceed 2.45 N per contact.</p> <p>○Pulling Force The force required to pull the test gage from any contact shall not be less than 0.294 N per contact.</p> 												
10	Connector Insertion and Withdrawal Force (Overall)	<p>○Insertion Force The force required to insert a connector into the mating one shall not exceed the values in the below table.</p> <p>○Withdrawal Force The force required to withdraw a connector from the mating one shall not be less than the values in the below table.</p> <p style="text-align: right;">UNIT : N</p> <table border="1" data-bbox="661 1102 1313 1332"> <thead> <tr> <th>No. of pos.</th> <th>Insertion Force</th> <th>Withdrawal Force</th> </tr> </thead> <tbody> <tr> <td>26</td> <td>39.2 max.</td> <td>3.5 min.</td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table>	No. of pos.	Insertion Force	Withdrawal Force	26	39.2 max.	3.5 min.						
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26	39.2 max.	3.5 min.												
11	Durability	When subjected to 5000 cycles of insertion and withdrawal forces with mating connector at the rate of 600 cycles per hours, there shall be no evidence damage to the connectors such as cracking. After test, the contact resistance shall not exceed 70m Ω .												
12	Vibration	When tested in accordance with Method 204D of MIL-STD-202F, Test Condition A, there shall be no physical or mechanical damage to the connector . During vibration, there shall be no discontinuity of the test circuit greater than 1 microsecond. (100 mA DC of current applied for the circuit.)												
13	Shock	When tested in accordance with Method 213B of MIL-STD-202F, Test Condition A, there shall be no physical or mechanical damage to the connector . During the test, there shall be no discontinuity of the test circuit greater than 1 microsecond. (100 mA DC of current applied for the circuit.)												
Wistron	14 Humidity Temperature Cycling (Except Cable Cover For Cable Connector)	When tested in accordance with Method 106E of MIL-STD-202F, after the test, the insulation resistance shall be no less than 500 M Ω , there shall be no breakdown of insulation or flashover at 350 volts AC (r.m.s.) for a minute and the contact resistance shall not exceed 70m Ω .												

No.	ITEM	SPECIFICATION
15	Thermal Shock	<p>When tested in accordance with MIL-STD-202F 107G, after the test, the insulation resistance shall be no less than 500 MΩ, there shall be no breakdown of insulation or flashover at 350 volts AC (r.m.s.) for a minute and "the contact to contact" resistance shall not exceed 70mΩ.</p> <p>Test Cycle:10</p>  <p>The diagram illustrates a thermal shock test cycle. It starts at -55°C, ramps up over 30 minutes to +85°C, where it dwells for 5 minutes. It then ramps down over 30 minutes to +25°C, where it dwells for 5 minutes. This sequence is labeled as '1 Cycle'.</p>
16	High Temperature Life (Except Cable Cover For Cable Connector)	<p>When tested in accordance with Method 1005 of MIL-STD-1344, there shall be no evidence of cracking or crazing of the body or other physical damage to the connector. After test, the contact resistance shall not exceed 70mΩ.</p> <p>Temperature : +85°C Test Time : 1000 hours</p>
17	Corrosion (Salt Spray)	<p>When tested in accordance with Method 101D of MIL-STD-202F, Test condition A, there shall be no any excessive corrosion on the every part of connector. After test, the contact resistance shall not exceed 70mΩ.</p>
Wistron	18	<p>Resistance to SO₂ Gas</p> <p>When tested in accordance with JEIDA-39(Issued by Japan Electronic Industry Development Association, as hydrogen sulphide environmental test method of connectors). Connectors are exposed in such environment with SO₂ gas of 10±2ppm .There shall be no any excessive corrosion on the every part of connector. After test, the contact resistance shall not exceed 70mΩ.</p> <p>Test Time : 100 hours</p>

No.	ITEM	SPECIFICATION
19	Solderability (Except Cable Cover For Cable Connector)	<p>When connectors are assembled to printed circuit boards the termination area of contact must fixed to p.c. board pad at a temperature of 250°C for 10 seconds.</p> <div data-bbox="572 430 1403 1031" style="border: 1px solid black; padding: 10px; margin: 10px 0;"> <p style="text-align: center;">Reflow Temperature Profile</p> </div> <p>When connectors are assembled to printed circuit boards with solder bath. Temperature :$260 \pm 3^{\circ}\text{C}$ for $5+1/-0$ seconds.</p> <p>When connectors are assembled to cable with soldering iron temperature: $380 \pm 10^{\circ}\text{C}$ for 4 seconds, there shall be no damage to the connectors</p>
20	Solder Heat (Except Cable Cover For Cable Connector)	<p>When connectors are assembled to printed circuit boards with solder bath. Temperature : $260 \pm 5^{\circ}\text{C}$ for 10 seconds. there shall be no damage to the connectors.</p>
Wistron 21	Connector Locking Force	<p>When mated with mating connector with the case, and they are locked in place, the minimum retention force shall be no less than 98 N.</p>