HONDA TSUSHIN KOGYO CO., LTD.	Sheet	1 of 4	
TOKYO JAPAN	Date	March 24, 2005	
PRODUCT SPECIFICATION	Approved by	Checked by	Written by
0.8mm SPACING HIGH DENSITY BOARD TO CABLE CONNECTOR	M. Obihara	C White prings	Minto
RoHS compliant	W. Dans	Chin	2. t.h
	H. Ebihara	C. Nunokawa	Y. Kato

Connector part number

Connector type		Part No.	Note	
Board to Cable	Female board Connector	HDRA-EA36LFDT()-()+	Right angle dip type board connector	
	Male cable Connector	HDRA-E36MA+	IDC type cable connector Wire size available: #30AWG Insulation O.D: 0.5 to 0.6mm	
	Applicable cable connector backshell	HDRA-E36LPT()	Shielded over molded backshell with lock spring.	

Characteristic

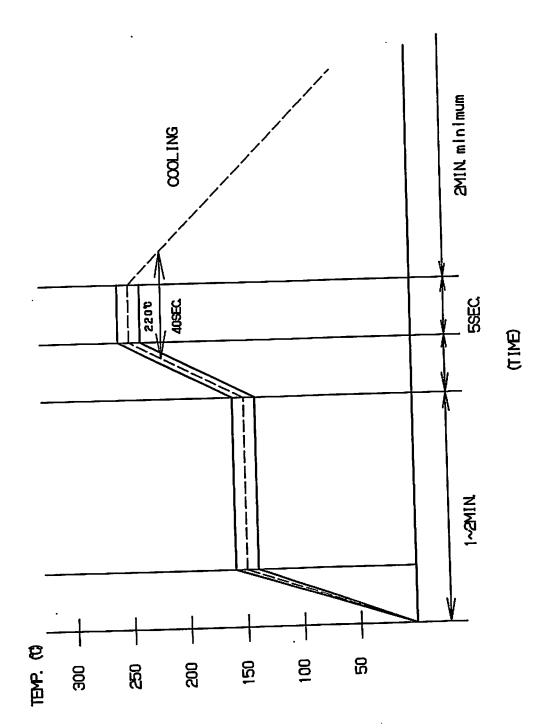
No.	Item	Specification
1	Current Rating	0.3 amp DC maximum per contact
2	Voltage Rating	30 volts AC (r.m.s.)
3	Operating Temperature	-40°C to 70°C
4	Storage Temperature	-40°C to 70°C
5	Humidity	95%RH maximum
6	Insulation Resistance	When tested in accordance with EIA 364-21, the insulation resistance shall be a minimum of 500 M Ω at 100volts DC.
7	Dielectric Withstanding Voltage	When tested in accordance with Method B of EIA364-20, there shall be no breakdown of insulation or flashover at 250 volts AC (r.m.s.) for a minute.
8	Contact Resistance	When tested in accordance with EIA364-23, contact resistance shall not exceed following values including the conductor resistance. Contact to contact: $70m\Omega$ Cable connector shield to grounding plate: $500m\Omega$

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No.	Item	Specification				
9	Female Con Item tact Insertion and Pulling Force (Individual)	Insertion The forexceed Pulling The forest	ng force shall so in Force: orce required of l 2.45 N per con Force:	satisfy followings. to insert the test gantact. to pull the test gang	3, female contact inseauge into any contact size from any contact size.	t shall not
10	Connector Insertion and Withdrawal Force (Overall)	exceed Withdra The fo	orce required (l the value sho wal Force: orce required to	wn in the table below	tor from the mating or	
11	Durability	When subjected to 2000 cycles of insertion and withdrawal with mating connector at the rate of 500 cycles per hour, there shall be no evident damage to the connector such as cracking. After the test, contact resistance shall satisfy values as stated in item #8.				
12	Vibration	When tested in accordance with EIA364-28, there shall be no physical damage to the connector. During vibration there shall be no discontinuity of the test circuit greater than 1 microsecond. (100 mA DC of current is applied to the circuit.) Frequency range: 10Hz to 500Hz at 4.44G Test direction: 3 axes (X,Y and Z) Test time: 20 minuets for each axis				
13	Physical Shock	When tested in accordance with EIA364-27, there shall be no physical 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 is applied to the circuit.) Acceleration: 30G peak Test direction: 3 axes (X,Y and Z) Test cycles: 6 cycles for each axis (Total 18cycles)				
14	Humidity Temperature Cycling (Except cable connector backshell)	Connectors are tested in accordance with EIA364-31. After the test, insulation resistance shall be no less than 500 M Ω and there shall be no breakdown of insulation or flashover at 250 volts AC (r.m.s.) for a minute. Contact resistance shall satisfy values as stated in item #8.				

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No.	Item	Specification	
15	Thermal Shock	When subjected to 25 cycles in the environment shown in below program, there shall be no evident physical damage to the connector. After the test, contact resistance shall satisfy values as stated in item #8.	
16	High Temperature Life (Except cable connector backshell)	When tested in accordance with EIA364-32, there shall be no evident physical damage to the connector. After the test, contact resistance shall satisfy values as stated in item #8. Temperature: +85 °C Test Time: 500 hours	
17	Salt Spray	When tested in accordance with test condition A of EIA364·26, there shall be no any excessive corrosion on the every part of the connector. After the test, contact resistance shall satisfy values as stated in item #8. Concentration: 5% Temperature: 35°C Test Time: 20 hours	
18	Resistance to Mix Flowing Gas	When tested in accordance with EIA364-65 environment class 3 of EIA364-65, there shall be no any excessive corrosion on the every part of the connector. After the test, contact resistance shall satisfy values as stated in item #8. Concentration: Cl ₂ gas: 20±5ppb NO ₂ gas: 200±50ppb H ₂ S gas: 100±20ppb Temperature: 30±2°C Test Time: 20 days	

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No.	Item	Specification
19	Solvent Resistance (Except cable connector backshell)	When tested in accordance with method 215E of MIL-STD-202F, the connector shall be capable of being cleaned by ethyl alcohol. After the test, there shall be no evidence of swelling, cracking, dissolving or any other defect.
20	Solderability	When board connector is assembled to printed circuit board, contact termination area must be soldered onto the pad at the temperature of 240±10°C for 15 seconds.
21	Solder Heat	When board connector is exposed in the environment at a maximum temperature of 265±5°C for 3 to 5 seconds, there shall be no damage to the connector.



PEAK TEMPERATURE 240±5% 220±50.40sec.