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HONDA TSUSHIN KOGYO CO., LTD. TOKYO JAPAN Date					Apr. 23, 2015			
	Dundanak	C:		App	roved by	Checked by	Written by	
Product Specification TAK series 6 Pos. connector				Bod	ugen	H. Ayawa	1 forman	
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			S. Furusawa		H. Aizawa	T. Kawano	
Con	nector part No.							
Type			Part No.		Note.			
	Cable plug connector	TAK-	TAK-A6SFCG()-()()-		+ Crimping type connector with backshell			
	Crimping contact		LPC-F103()		Cable crimping type contact (AWG #22 to #32)			
Во	ard receptacle connect	tor TAK	TAK-V6MDG()-()F+ Shielded		Shielded R	Right angle dip type connector		
Spec	cification							
No.	Item			Sp	ecification	n		
1	Current Rating	2.5 amp D.C. maximum per contact (AWG#22 to #24)						
2	Voltage Rating	30 volts A.C.	(r.m.s.)					
3	Operating Temperature	-40 to +105 de	egrees C					
4	Storage Temperature	-40 to +105 degrees C						
5	Humidity	85%Rh maximum						
6	Insulation Resistance	When tested in accordance with EIA 364-21, insulation resistance shall be a minimum of 1000 M at 500 volts D.C						
7	Dielectric Withstanding Voltage	When tested in accordance with Method B of EIA364-20, there shall be no breakdown of insulation or flashover at 500 volts A.C. (r.m.s.) for a minute.						
8	Contact Resistance	When tested in accordance with EIA364-23, contact resistance shall not exceed 50 m Ω without conductor resistance.						
9	Humidity (Steady temperature)	(Temperature damage to the less than 1000	40 degrees C , connectors. Aft $M\Omega$ and there C. (r.m.s.) for a	Durati er the shall b	ion: 168 ho test, the i be no breal	l-31A test condit ours), there shall nsulation resista kdown of insulat itact resistance s	l be no physical ance shall be no ion or flashover	

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No.	Item	Specification					
10	Thermal Shock	When tested in accordance with EIA364-32A test condition 1, (10 cycles in the environment shown in below program), there shall be no physical damage to the connectors. After the test, the contact resistance shall not exceed 50 m Ω .					
		+105 degrees C +25 degrees C					
		-55 degrees C 30 min 5 min 5 min					
		1 Cycle					
11	Vibration	When tested in accordance with EIA364-28B test condition 5 test letter A, (Acceleration: 52.43 m/s^2 1cycle: 15 minutes), there shall be no physical damage to the connectors. During the test, there shall be no electrical discontinuity of the test circuit greater than 1 microsecond. (100 mA DC of current is applied to the circuit.) After the test, the contact resistance shall not exceed $50 \text{ m}\Omega$.					
12	Physical Shock	When tested in accordance with EIA364-27B test condition H (Semi-sine wave, Acceleration: 294 m/s², Standard holding time: 11 msec.), there shall be no physical damage to the connectors. During the test, there shall be no electrical discontinuity of the test circuit greater than 1 microsecond. (100 mA DC of current is applied to the circuit.) After the test, the contact resistance shall not exceed 50 mΩ.					
13	Durability	When subjected to 30 cycles of insertion and withdrawal cycles with mating male connector at the rate of 600 cycles per hour, there shall be no evident physical damage to the connectors. After the test, the contact resistance shall not exceed $50~\text{m}\Omega$.					
14	High Temperature Life	When tested in accordance with EIA364-17 test condition 3 method A , there shall be no physical damage to the connectors. After the test, the contact resistance shall not exceed 50 m Ω .					
		Temperature: +105 degrees C Duration: 250 hours					
15	Cold Resistance	When tested in accordance with JIS C 5201 7.9, there shall be no physical damage to the connectors. After the test, the contact resistance shall not exceed 50 mΩ. Temperature: -55 degrees C Duration: 250 hours					
16	Latch Locking Force	When cable plug with a backshell is pulled from board receptacle connector, latch locking force shall be no less than 100N.					

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No.	Item	Specification			
17	Contact retention force	When contact is pulled from the connector, contact retention force shall be no less than 4.9 N.			
18	Capacitance	When tested in accordance with EIA364-30 (Measurement frequency: 1 kHz), Capacitance shall not exceed 2 pF between adjacent contacts.			