					She	et 1 of 5
HTK HONDA TSUSH			SHIN KOGYO CO., LTD		Dat	
Product Specification		Approved by	Check		Written by	
LPC Series Connector					 	
(Crimping Connector)		r)	K. Taskiro	M. Kasaha	70-	a. Tachiro
Conr	Connector part number					
Connector type			Part number		ote	Insulation dia. range
		LPC-F103S		AWO	3#32	0.6
	Contact		LPC-F103N		28~32	0.7~1.0
			LPC-F103L AWG#		22~26	0.9~1.1
Applicable female insulator L		LPC - ()	LPC - () FS01, F02			
Matting male connector		LPC-() MG, MLG, M2G, M2LG				
Char	acteristics					
No.	item			Specificatio	n	
1	Current Rating	1 A max	imum per contact			
2	Voltage Rating	125 V A	C (r.m.s.)		-	
3	Operating Temperature	-25 ℃	to 85 °C			
4	Humidity	90%RH	maximum			
		When tested in accordance with method B of MIL-STD-202F 302,				
5	Insulation Resistance	the insulation resistance shall be a minimum of 1000 $M\Omega$				
		at 500 V	at 500 V DC.			
6	Dielectric	When tested in accordance with MIL-STD-202F 301,				
	Withstanding Voltage	there shall be no breakdown of insulation or flashover				
		at 500 V AC (r.m.s.) for a minute.				
		When tested in accordance with JIS C 5402 5.4,				
	Contact Desisters	contact resistance shall not exceed following values including				
7	Contact Resistance	the cable conductor resistance. (30mm length)				
		 Initial : 4	Initial : 40 mΩ			

No.	Item	Specification	
8	Female Contact Insertion and Pulling Force (Individual)	When tested in accordance with JIS C5402 6.4, female contact insertion force and pulling force shall satisfy followings. Insertion Force The force required to insert the test gauge into any contact shall not exceed following values. 2.94 N per contact Pulling Force The force required to pull the test gauge from any contact shall not be less than following values. 0.294 N per contact ### The force required to pull the test gauge from any contact shall not be less than following values.	
9	Connector Insertion and Withdrawal Force (Overall)	When tested in accordance with JIS C5402 6.6, connector insertion force and withdrawal force shall satisfy followings. Insertion Force The force required to insert a connector into the mating one shall not exceed 2.94× (n) N. Withdrawal Force The force required to withdraw a connector from the mating one shall not be less than 0.294× (n) N. "" n" shows number of contact	
10	Vibration	When tested in accordance with method A of MIL-STD-202F 204D, there shall be no physical or mechanical damage to the connector. During vibration, there shall be no discontinuity of the test circuit greater than 10 µ s. (100 mA DC of current applied for the circuit.) Frequency range: 10 Hz to 500 Hz at 1.52mm or 98 m/s² Test direction: 3 axes(X, Y and Z) Test time: 2 hours for each axis	

No.	Item	Specification		
		When tested in accordance with method A of MIL-STD-202F 213B,		
		there shall be no physical or mechanical damage to the connector.		
	During the test, there shall be no discontinuity of the test circ			
		than 10 µ s. (100 mA DC of current applied for the circuit.)		
11	Physical Shock			
:		Acceleration: 490 m/s² peak		
		Test direction: 6 axes(±X, ±Y and ±Z)		
		Test cycles: 3 cycles for each axis (Total 18 cycles)		
		When tested in accordance with JIS C5402 6.3,		
		there shall be no physical or mechanical damage to the connector.		
40		After test, contact resistance shall not exceed ' $50m\Omega$ ' including		
12	Durability	the cable conductor resistance. (30mm length)		
		Test cycles: 50 cycles		
		When tested in accordance with JIS C5402 7.2,		
		there shall be no physical or mechanical damage to the connector.		
		Test cycles: 5 cycles +85°C		
		++25°C		
13	Thermal Shock	-25°C 30 min 30 min		
		 		
		5 min 1 Cycle		
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No.	Item	Specification
		When tested in accordance with method B of MIL-STD-202F 103B,
		there shall be no physical or mechanical damage to the connector.
		After the test, the insulation resistance shall be more than 1000 $M\Omega$,
		there shall be no breakdown of insulation or flashover at 500 VAC
14	Humidity	(r.m.s.) for a minute and contact resistance shall not exceed ' $50 \text{m}\Omega$ '
		including the cable conductor resistance. (30mm length)
		Humidity: 90∽95 %
		Temperature: + 40 ℃
		Test time: 96 hours
		When tested in accordance with method B of MIL-STD-202F 101D,
		there shall be no any excessive corrosion on the every part of
		connector.
		After test, contact resistance shall not exceed ' $50m\Omega$ ' including
15	Salt Spray	the cable conductor resistance. (30mm length)
		Salt spray concentration: 5%
		Test time: 48 hours
		When tooked in gooddener with US C 0000
		When tested in accordance with JIS C 0092,
		there shall be no any excessive corrosion on the every part of connector.
		After test, contact resistance shall not exceed ' 50mΩ' including
		the cable conductor resistance. (30mm length)
16	H₂S Gas	the cable conductor resistance. (Sommiengur)
'	1120 043	H₂S gas concentration: 3 ppm
		Temperature: +40°C
		Test time: 96 hours
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No.	Item	Specification
17	High Temperature	After tested in accordance with method A of MIL-STD-202F 108A, there shall be no physical or mechanical damage to the connector and contact resistance shall not exceed '50mΩ' including the cable conductor resistance. (30mm length) Temperature: +85 °C Test time: 96 hours
18	Temperature Rise	When 1A DC is passed through each contact of connector, the change in temperature of connectors before and after test shall not exceed 30°C.
19	Solderability	When tested in accordance with MIL-STD-202F 208E, a new uniform coating of solder shall cover a minimum of 95% of the surface being immersed. Solder Temperature: 245°C Immersion time: 5 seconds
20	Solder Heat	When tested in accordance with method A of MIL-STD-202F 210A, there shall be no physical or mechanical damage to the connector. Solder bath temperature: 260°C Immersion time:10 seconds
21	Solvent Resistance	When tested in accordance with MIL-STD-202F 215E, the connector shall be capable of being cleaned by isopropyl alcohol. After test, there shall be no evidence of swelling, cracking, dissolving or any other defect.
22	Contact Retention	When a force of 4.9 N is applied to any contact in direction along the axis of retention, there shall be no damage or loosing of the contact.