Honda Tsushin Kogyo Co., Lt	d.	Da	ate issued	August. 4, 2004	
		Appı	roved by	Checked by	Written by
Product Specification 0.4 mm pitch fine coaxial cable pluboard receptacle.	ug an	d 74.01	lnishe	K-Kasai	M. Mariishi
		К. С	Dhnishi	K. Kasai	M. Maruishi
	2	Jan. 05, 2005	M. Maruishi	Change item.	
	1	Aug. 24, 2004	H.Aizawa	Added 40 pos.	
	LTR.	Date	Ву	Des	scription

1. Connector part number 🛕

Connector part number	No. of pos.	Description
LVX-A30LMSG+	30 pos.	
LVX-A40LMSG+	40 pos.	0.4 mm pitch fine coaxial cable plug.
LVX-A30SFYG+	30 pos.	
LVX-A40SFYG+	40 pos.	0.4 mm pitch fine coaxial board receptacle.

2. Ratings

No.	Item	Specification
2-1	Current rating	0.2 A DC maximum per contact
2-2	Voltage rating	100 V AC (r.m.s.)
2.3	Operating temperature	·20 °C to +70 °C
$2^{.4}$	Relative humidity	95 % RH maximum

3. Characteristics

No.	Item	Specification
3.1	Insulation resistance	When tested in accordance with EIA 364·21, the initial insulation resistance shall be a minimum of 1000 M Ω at 250V DC. After test, the insulation resistance shall be a minimum of 100M Ω at 250V DC
3-2	Dielectric withstanding voltage	When tested in accordance with EIA 364·20, there shall be no breakdown of insulation or flashover at 250 V AC (r.m.s) for a minute.
3-3	Contact resistance (Low level)	When tested in accordance with EIA 364-23, the initial contact resistance shall not exceed 100 m Ω including the conductor resistance. After test, change in the contact resistance before and after test shall not exceed 40 m Ω .

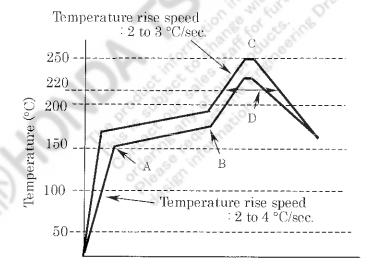
Connector insertion and withdrawal force (overall) Temperature life	·Withdrawal forc	nector shade te ired to wit the mating in the belo	ll not exceed th hdraw a cable direction (Not	g into the m ne value in t plug from tl pulling cabl	nating board the below table. he mated board le) shall not les Unit: N awal force	
(overall)	receptacle connot withdrawal force The force requireceptacle in the than the value No. of pos.	rector shade ired to with the mating in the believes Insert Initial	ll not exceed the hadraw a cable direction (Not ow table.	ne value in t plug from tl pulling cabl Withdra	the below table. he mated board le) shall not les Unit: N	
(overall)	receptacle connot withdrawal force The force requireceptacle in the than the value No. of pos.	rector shade ired to with the mating in the believes Insert Initial	ll not exceed the hadraw a cable direction (Not ow table.	ne value in t plug from tl pulling cabl Withdra	the below table. he mated board le) shall not les Unit: N	
	·Withdrawal force The force requireceptacle in the than the value No. of pos.	red to with the mating in the below Insert Initial	hdraw a cable direction (Not ow table. ion force	plug from tl pulling cabl Withdra	he mated board le) shall not les Unit: N	
Temperature life	The force requireceptacle in the than the value No. of pos.	red to wit ne mating in the belo Insert Initial	direction (Not ow table.	pulling cabl	le) shall not les Unit: N	
Temperature life	receptacle in the than the value No. of pos.	ne mating in the beli Insert Initial	direction (Not ow table.	pulling cabl	le) shall not les Unit: N	
Temperature life	No. of pos.	in the beline Insert	ow table.	Withdra	Unit: N	
Temperature life	No. of pos.	Insert Initial	ion force	-	***************************************	
Temperature life	pos. 30	Initial		-	***************************************	
Temperature life	pos. 30	Initial		-	wai iorce	
Temperature life	30		After test		1.0	
Temperature life	A	49		Initial	After test	
Temperature life	<u>/1\ </u>		49	5	3	
Temperature life		52	52	6.3	4.3	
	When tested in accordance with the following conditions, there shall					
and the same of th	be no remarkable physical damage to the connector.					
	After test, the insulation resistance shall meet the item No.3-1,					
	19. 70 D					
	A					
	4.00 6.00					
Cold resistance		W.W.	with the follow	ing conditio	ons there shall	
	. 0, .0 1			1100001 1115071	mon and	
0			0 1(CIII 110.9 4.			
Thermal shock			with the follow	ing conditio	ne there shall	
310011					ms, mere snan	
6,000						
41,10	1 - D2 A3					
J. Collott				·		
01,100		nector mser	uon and			
P \(e^2 \)					0=-0	
	=				85°C	
	iest cycle- 200	cycles	<u> </u>	<u> </u>	25°C	
					-40°C	
					4 '40''	
			30min.	30min.	5min.	
			5 m	ii√ ≻'- iin.		
				·	-	
	Cold resistance	resistance shall n withdrawal force Temperature Test time: 10 Cold resistance When tested in ac be no remarkable After test, the ins dielectric withsta resistance shall n withdrawal force Temperature Test time: 100 When tested in ac be no remarkable After test, the ins dielectric withsta resistance shall m withdrawal force Temperature: Test time: 100 Thermal shock	resistance shall meet item withdrawal force shall mee Temperature: 85 °C Test time: 1000 hours When tested in accordance be no remarkable physical of After test, the insulation re dielectric withstanding volt resistance shall meet item I withdrawal force shall meet Temperature: 40 °C Test time: 1000 hours When tested in accordance be no remarkable physical of After test, the insulation re dielectric withstanding volt resistance shall meet item I withdrawal force shall meet	resistance shall meet item No.3·3 and con withdrawal force shall meet item No.3·4. Temperature: 85 °C Test time: 1000 hours When tested in accordance with the follow be no remarkable physical damage to the After test, the insulation resistance shall dielectric withstanding voltage shall meet resistance shall meet item No.3·3 and con withdrawal force shall meet item No.3·4. Temperature: ·40 °C Test time: 1000 hours When tested in accordance with the follow be no remarkable physical damage to the After test, the insulation resistance shall dielectric withstanding voltage shall meet resistance shall meet item No.3·3 and con withdrawal force shall meet item No.3·4. Temperature: ·40 to 85 °C Test cycle: 200 cycles 30min.	Test time: 1000 hours When tested in accordance with the following condition be no remarkable physical damage to the connector. After test, the insulation resistance shall meet the item dielectric withstanding voltage shall meet the item No resistance shall meet item No.3·3 and connector inser withdrawal force shall meet item No.3·4. Temperature: ·40 °C Test time: 1000 hours When tested in accordance with the following condition be no remarkable physical damage to the connector. After test, the insulation resistance shall meet the item dielectric withstanding voltage shall meet the item No resistance shall meet item No.3·3 and connector inser withdrawal force shall meet item No.3·4. Temperature: ·40 to 85 °C Test cycle: 200 cycles	

No.	Item	Specification
3-8	Mixed flowing gas	When tested in accordance with EIA364·65, environment class 1, there shall be no remarkable physical damage to the connector. After test, contact resistance shall meet item No.3·3. Concentration: Cl2 gas: 10 ppb NO2 gas: 200 ppb
		H2S gas: 10 ppb Temperature: 30 °C Relation humidity: 70 % Test time: 7 days
3-9	Vibration	When tested in accordance with the following conditions, there shall be no remarkable physical damage to the connector. During test, there shall be no discontinuity of the test circuit greater than 1 microsecond (100 mA DC of current is applied to the circuit). After test, contact resistance shall meet item No.3·3. Sweep time (10 to 150 Hz): 20 minutes Amplitude: 1.5 mm (10 to 55 Hz) Acceleration: 49 m/s² (55 to 150 Hz) Test time: 2 hours in each of 3 mutually perpendicular directions.
-10	Physical shock	When tested in accordance with the following conditions, there shall be no remarkable physical damage to the connector. During test, there shall be no discontinuity of the test circuit greater than 1 microsecond (100 mA DC of current is applied to the circuit). After test, contact resistance shall meet item No.3-3. Half sine wave Acceleration: 980 m/s² Standard holding time: 6 msec. Number of test time: 3 times in each of 6 mutually perpendicular directions.

No.	Item	Specification
3.11	Durability	When tested in accordance with the following conditions, there shall be no remarkable physical damage to the connector. After test, the insulation resistance shall meet the item No.3·1, dielectric withstanding voltage shall meet the item No.3·2, contact resistance shall meet item No.3·3 and connector insertion and withdrawal force shall meet item No.3·4. Test cycles: 30 cycles Mating speed: 200 cycles per hour
3-12	Humidity	When tested in accordance with the following conditions, there shall be no remarkable physical damage to the connector. After test, the insulation resistance shall meet the item No.3·1, dielectric withstanding voltage shall meet the item No.3·2, contact resistance shall meet item No.3·3 and connector insertion and withdrawal force shall meet item No.3·4. Temperature: 60 °C Relation humidity: 95 % Test time: 24 hours
3-13	Temperature rise	When 0.2 A DC is passed through each contacts, the change in connector temperature before and after test shall not exceed 30 °C.

4. Recommended Re-flow soldering temperature profile

Solder paste: Sn96.5 / Ag3.0 / Cu0.5



- (1) A (Pre-Heating starting point) 150 to $170\ ^{\circ}\mathrm{C}$
- (2) B (Pre-Heating terminal point) 170 to 190 °C
- (3) Time between A and B 90+/- 30 seconds.
- (4) C (Peak temperature) 230 to 250 °C
- (5) D (Time more than 220 °C) 30 to 40 seconds.

Note: Adjust re-flow soldering condition with the re-flow machine using connector samples before production because the condition is affected by the circumstance with PC Board size and devices to be mounted.