ENGINEERING	PRODUCT SPECIFICATION	SPEC.NO.:	SPCD010B
DEPT.	For Flat Cable-IDC D-Sub Connector	PAGE:	1/3

1. SCOPE:

This specification contains the test requirement of subject connectors when tested under the condition and below standards base on CviLux test procedure

2. APPLICABLE STANDARDS:

Methods for test of connectors for electronic equipment

MIL - STD - 202 MIL - STD - 1344 Test methods for electrical connectors

3. APPLICABLE SERIES NO.: CD91 Series

4. SHAPE, CONSTRUCTION AND DIMENSIONS

See attached drawings

5. MATERIALS

See attached drawings



REVIEWED :	Alex	_ APPROVED :_	David	VERIFIED :_	Rita	



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6. ELECTRICAL PERFORMANCE:

	ITEM	TEST CONDITION	
6.1	Rated current and voltage		1A 250V AC (r.m.s.)
6.2	Contact resistance	Dry circuit of DC 20 mV max., 100 mA max.	Less than 25 m Ω
6.3	Dielectric strength	When applied AC 1000 V 1 minute between adjacent terminal	No change
6.4	Insulation resistance	When applied DC 500 V between adjacent terminal or ground	More than 5000 M Ω

7. MECHANICAL PERFORMANCE:

	ITEM	TEST CONDITION	REQUIREMENT
7.1	Applicable cable	Specified wire size	Solid: AWG#26~#30
			Stranded: AWG#28
7.2	Single contact insertion force	Measure force to insertion using Ø 1.04 mm test pin at speed 25± 3 mm per minute	340 gram max.
7.3	Single contact withdrawal force	Measure force to withdrawal using Ø 0.99 mm test pin at speed 25± 3 mm per minute	28 gram min.
7.4	Durability	Connector shall be subjected to 100 cycles of insertion and withdrawal	Contact resistance: Less than twice of initial

8. ENVIRONMENTAL PERFORMANCE:

	ITEM	TEST CONDITION	REQUIREMENT
8.1	Temperature rise	Then carried the rated current	30°C max.
8.2	Vibration	1.5 mm 10-55-10 HZ / minute each 2 hours for X, Y and Z directions	Appearance: No damage Discontinuity: 1 micro second max.
8.3	Heat aging	105 ± 2°C , 96 hours	No damage
8.4	Humidity	40 ± 2 °C , 90-95% RH , 96 hours measurement must be taken within 30 min. after tested	Appearance: No damage Contact resistance: Less than twice of initial Dielectric strength: To pass para 6-3



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	ITEM	TEST CONDITION	REQUIREMENT
8.5	Temperature cycling	One cycle consists of :	Appearance: No damage
		(1) -55^{+0}_{-3} °C, 30 min.	Contact resistance:
		(2)Room temp. 10-15 min.	Less than twice of initial
		(3) 85^{+3} °C, 30 min.	
		(4)Room temp. 10-15 min.	
8.6	Salt spray	Temperature: 35 ± 3°C	Appearance: No damage
		Solution: 5 ± 1%	Contact resistance:
		Spray time: 48 ± 4 hours	Less than twice of initial
		Measurement must be taken after water rinse	

9. AMBIENT TEMPERATURE RANGE: -40 to + 105°C

10. MATING FORCE AND UNMATING FORCE:

Unit: Kgf

No. of Circuits	Mating Force (Initial max.)	Unmating Force (Initial max.)
9	4.6	3.5
15	8.1	6.4
25	10.5	7.7
37	14.1	9.9