



**ENGINEERING**

**DEPT.**

**PRODUCT SPECIFICATION**

**For 2.00 mm (.079") Center Spacing Flat  
Cable - IDC Connectors**

**SPEC.NO.: SPCA004B**

**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:**

MIL - STD - 202

Methods for test of connectors for electronic equipment

MIL - STD - 1344

Test methods for electrical connectors

**3. APPLICABLE SERIES NO.: CA11 Series**

**4. SHAPE, CONSTRUCTION AND DIMENSIONS**

See attached drawings

**5. MATERIALS**

See attached drawings

**6. APPLICABLE CABLES**

1.00 mm (.039") center spacing Flat Cable

Insulator O.D.: 0.85 mm dia.

Construction: AWG #28 (7/0.127 mm)



**REVIEWED :** Alex **APPROVED :** David **VERIFIED :** Rita .



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PAGE: 2 / 3

7. ELECTRICAL PERFORMANCE:

	ITEM	TEST CONDITION	
7.1	Rated current and voltage		1 A 250V AC (r.m.s.)
7.2	Contact resistance	Dry circuit of DC 20 mV max. , 100 mA max.	Less than 30 mΩ
7.3	Dielectric strength	When applied AC 500 V 1 minute between adjacent terminal	No change
7.4	Insulation resistance	When applied DC 500 V between adjacent terminal or ground	More than 1000 MΩ

8. MECHANICAL PERFORMANCE:

	ITEM	TEST CONDITION	REQUIREMENT
8.1	Single contact insertion force	Measure force to insertion using 0.50 mm square pin at speed $25 \pm 3$ mm per minute	300 gram max.
8.2	Single contact withdrawal force	Measure force to withdrawal using 0.50 mm square pin at speed $25 \pm 3$ mm per minute	40 gram min.
8.3	Durability	Connector shall be subjected to 100 cycles of insertion and withdrawal	Contact resistance: Less than twice of initial

9. ENVIRONMENTAL PERFORMANCE:

	ITEM	TEST CONDITION	REQUIREMENT
9.1	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.
9.2	Heat aging	$105 \pm 2^{\circ}\text{C}$ , 96 hours	No damage
9.3	Humidity	$40 \pm 2^{\circ}\text{C}$ , 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 7-3
9.4	Temperature cycling	One cycle consists of : (1) $-55^{+0}_{-3}^{\circ}\text{C}$ , 30 min. (2) Room temp. 10-15 min. (3) $85^{+3}_{-0}^{\circ}\text{C}$ , 30 min. (4) Room temp. 10-15 min.	Appearance: No damage Contact resistance: Less than twice of initial



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		<b>PAGE: 3 / 3</b>

	ITEM	TEST CONDITION	REQUIREMENT
9.5	Salt spray	Temperature: $35 \pm 3^{\circ}\text{C}$ Solution: $5 \pm 1\%$ Spray time: $48 \pm 4$ hours Measurement must be taken after water rinse	Appearance: No damage Contact resistance: Less than twice of initial

10. AMBIENT TEMPERATURE RANGE:  $-40$  to  $+105^{\circ}\text{C}$