



ENGINEERING DEPT.	PRODUCT SPECIFICATION For 1.27 mm (.050") Center Spacing Flat Cable - IDC Connector of system CA01	SPEC.NO.: SPCA001C
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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.: **CA01 Series**

4. SHAPE, CONSTRUCTION AND DIMENSIONS

See attached drawings

5. MATERIALS

See attached drawings

6. APPLICABLE CABLES

0.635 mm (.025") center spacing Flat Cable

Insulator O.D.: 0.6 mm dia.

Construction: AWG #32 (7/0.075 mm)



REVIEWED : Alex APPROVED : David VERIFIED : Sun .



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7. ELECTRICAL PERFORMANCE:

	ITEM	TEST CONDITION	
7.1	Rated current and voltage		0.5 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 500 MΩ

8. MECHANICAL PERFORMANCE:

	ITEM	TEST CONDITION	REQUIREMENT
8.1	Single contact insertion force	Measure force to insertion using 0.46 mm square pin at speed 25 ± 3 mm per minute	300 gram max.
8.2	Single contact withdrawal force	Measure force to withdrawal using 0.46 mm square pin at speed 25 ± 3 mm per minute	20 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

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