

ENGINEERING DEPT.	PRODUCT SPECIFICATION	SPEC.NO.: SPCA005B
	For 2.54 mm (.100") Center Spacing Flat Cable - IDC Connectors	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 SERIER NO.:CA21 Series

4. SHAPE,CONSTRUCTION AND DIMENSIONS

See attached drawings

5. MATERIALS

See attached drawings

6. APPLICABLE CABLES

1.27 mm (.050") center spacing Flat Cable
Insulator O.D.: 0.85 mm dia.
Construction: AWG #28 (7/0.127 mm)



REVIEWED: Alex APPROVED: David VERIFIED: Rita

ENGINEERING DEPT.	PRODUCT SPECIFICATION For 2.54 mm (.100") Center Spacing Flat Cable - IDC Connectors	SPEC.NO.: SPCA005B
		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 1000 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 0.64 mm square pin at speed 25± 3 mm per minute	300 gram max.
8.2	Single contact withdrawal force	Measure force to withdrawal using 0.64 mm square pin at speed 25± 3 mm per minute	40 gram min.
8.3	Durability	Connector shall be subjected to 500 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 ± 2°C , 96 hours	No damage
9.3	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 7-3
9.4	Temperature cycling	One cycle consists of : (1) -55 ⁺⁰ / ₋₃ °C , 30 min. (2) Room temp. 10-15 min. (3) 85 ⁺³ / ₋₀ °C , 30 min. (4) Room temp. 10-15 min.	Appearance: No damage Contact resistance: Less than twice of initial

ENGINEERING DEPT.	PRODUCT SPECIFICATION For 2.54 mm (.100") Center Spacing Flat Cable - IDC Connectors	SPEC.NO.: SPCA005B
		PAGE: 3/3

	ITEM	TEST CONDITION	REQUIREMENT
9.5	Salt spray	Temperature: $35 \pm 3^{\circ}\text{C}$ Solution: $5 \pm 1\%$ Spray time: 48 ± 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 $+105^{\circ}\text{C}$