

ENGINEERING	PRODUCT SPECIFICATION	SPEC. NO.: SPCU004B
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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:

Digital Visual Interface Revision 1.0	DDWG Standard
ANSI/EIA-364	Test Procedures and Conditions are referenced.
UL 94	Test for flammability of plastic materials for parts in devices and appliance

3. APPLICABLE SERIES No. : CU07 Series

4. SHAPE, CONSTRUCTION AND DIMENSIONS

See attached drawings

5. MATERIALS

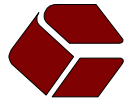
See attached drawings

6. ACCOMMODATED P.C.BOARD

1.6 mm (.063")



APPROVED: Alex REVIEWED : David VERIFIED : Sandy .



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7. ELECTRICAL PERFORMANCE:

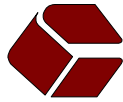
	ITEM	TEST CONDITION	REQUIREMENT
7.1	Rated current and voltage		3.0A 40V AC (r.m.s.)
7.2	Contact resistance	ANSI/EIA 364-23 Bulk resistance measured between plug solder tail and receptacle solder tails	20 mΩ max.
7.3	Dielectric strength	When applied AC 500 V 1 minute between adjacent terminal	No change
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	Receptacle Contact retention	Retention speed 25± 3 mm per minute from housing	More than 0.45 Kgf
8.2	Receptacle Key retention	Retention speed 25± 3 mm per minute from housing	More than 0.90 Kgf
8.3	Plug Contact retention	Retention speed 25± 3 mm per minute from housing	4.5 Kgf min.
8.4	Plug Key retention	Retention speed 25± 3 mm per minute from housing	4.5 Kgf min.
8.5	Mating Force	Speed 25± 3 mm per minute	4.5 Kgf max.
8.6	Unmating Force	Speed 25± 3 mm per minute	1.0 Kgf min.
8.7	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	Temperature rise	Then carried the rated current	30°C max.
9.2	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.
9.3	Solder ability	Soldering time: 5 ± 0.5 second Soldering pot: 230 ± 5°C	Minimum: 90% of immersed area



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9.4	Resistance to soldering heat	Soldering time: 5 ± 0.5 second Soldering pot: $240 \pm 5^{\circ}\text{C}$	No damage
9.5	Heat aging	$105 \pm 2^{\circ}\text{C}$, 250 hours	Contact resistance: Less than twice of initial
9.6	Humidity	ANSI/EIA 364-31,Condition A and B Method 3 , omit 7A and 7B	Contact resistance: Less than twice of initial

10. AMBIENT TEMPERATURE RANGE: -20 to $+85^{\circ}\text{C}$