



ENGINEERING DEPT.	PRODUCT SPECIFICATION For CS01 Series Connector System	SPEC.NO.: SPCS002B
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1. SCOPE:

This specification contains the test requirement of subject Shunts 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.: CS01 Series

4. SHAPE, CONSTRUCTION AND DIMENSIONS

See attached drawings

5. MATERIALS

See attached drawings



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6. ELECTRICAL PERFORMANCE:

	ITEM	TEST CONDITION	
6.1	Rated current and voltage		2.0 mm Pitch Shunts: 1A 250V AC (r.m.s.) 2.54 mm Pitch Shunts: 3A 250V AC (r.m.s.)
6.2	Contact resistance	Dry circuit of DC 20 mV max. , 100 mA max.	Less than 20 mΩ
6.3	Dielectric strength	When applied AC 1000 V (2.0 mm Pitch Shunts:AC 600 V) 1minute between adjacent terminal	No change
6.4	Insulation resistance	When applied DC 500 V between adjacent terminal or ground	More than 1000 MΩ

7. MECHANICAL PERFORMANCE:

	ITEM	TEST CONDITION	REQUIREMENT
7.1	Contact retaining force in insulator	Retention speed 25± 3 mm per minute from housing	2.54 mm Pitch Shunts: More than 600 gram 2.0 mm Pitch Shunts: More than 500 gram
7.2	Mating force	Mating speed 25 mm/minute	2.54 mm Pitch Shunts: 700 gram max. 2.0 mm Pitch Shunts: 600 gram max.
7.3	Unmating force	Unmating speed 25 mm/minute	2.54 mm Pitch Shunts: 100 gram min. 2.0 mm Pitch Shunts: 60 gram min.
7.4	Durability	Connector shall be subject 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.

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	ITEM	TEST CONDITION	REQUIREMENT
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
8.5	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
8.6	Salt spray	Temperature: 35±3°C Solution: 5±1% Spray time: 48±4 hours Measurement must be taken after water rinse	Appearance: No damage Contact resistance: Less than twice of initial

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