

ENGINEERING	PRODUCT SPECIFICATION	SPEC.NO.: SPCI022E
DEPT.	For CI93 Series Connector System	PAGE: 1 / 3

1. SCOPE:

This specification contains the test requirement of subject connectors when tested under the condition and inserted on specified size Tin coated jumper wire or single wire

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.: CI93 Series

4. SHAPE, CONSTRUCTION AND DIMENSIONS

See attached drawings

5. MATERIALS

See attached drawings

6. ACCOMMODATED P.C.BOARD

6.1 Thickness: 1.6 mm (.063")

6.2 P.C. Board Layout: See attached drawings



REVIEWED : Alex APPROVED : David VERIFIED : Sandy .



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7. ELECTRICAL PERFORMANCE:

	ITEM	TEST CONDITION	REQUIREMENT
7.1	Rated current and voltage		1A 100V AC (r.m.s.) 1A 150V DC
7.2	Contact resistance	Dry circuit of DC 20mV max. , 100mA max.	Less than 20 mΩ
7.3	Dielectric strength	When applied AC 800V 1minute between adjacent terminal	No change
7.4	Insulation resistance	When applied DC 500V between adjacent terminal or ground	More than 1000 MΩ

8. MECHANICAL PERFORMANCE:

	ITEM	TEST CONDITION	REQUIREMENT
8.1	Wire size	Specified wire size	Accepts AWG #24~#26 Tin coated jumper wire or AWG #24~#26 single wire, 5± 0.5 mm strip
8.2	Wire withdrawal force	Measure force to withdrawal using specified wire size at speed 25±3 mm per minute	600 gram min. per pin

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	Tin-Lead Process: Soldering time: 5 ± 0.5 second Soldering pot: 230 ± 5°C	Minimum: 90% of immersed area
9.4	Resistance to soldering heat	Tin-Lead Process: Soldering time: 5 ± 0.5 second Soldering pot: 240 ± 5°C	No damage
9.5	Heat aging	85± 2°C, 96 hours	No damage

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	ITEM	TEST CONDITION	REQUIREMENT
9.6	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
9.7	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
9.8	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

10. AMBIENT TEMPERATURE RANGE : -25 to + 85°C