



ENGINEERING	PRODUCT SPECIFICATION	SPEC.NO.: SPCD002C
DEPT.	For High Density Crimp Clip D-Sub Connector	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 SERIES NO.: CD02 Series

4. SHAPE, CONSTRUCTION AND DIMENSIONS

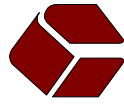
See attached drawings

5. MATERIALS

See attached drawings



REVIEWED : Alex APPROVED : David VERIFIED : Rita .



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6. ELECTRICAL PERFORMANCE:

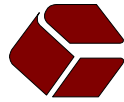
	ITEM	TEST CONDITION	REQUIREMENT
6.1	Rated current and voltage		1A 250V AC (r.m.s.)
6.2	Contact resistance	Dry circuit of DC 20 mV max. , 100 mA max.	Less than 20 mΩ
6.3	Dielectric strength	When applied AC 1000 V 1 minute between adjacent terminal	No change
6.4	Insulation resistance	When applied DC 500 V between adjacent terminal or ground	More than 5000 MΩ

7. MECHANICAL PERFORMANCE:

	ITEM	TEST CONDITION	REQUIREMENT
7.1	Wire size	Specified wire size	Accepts AWG#26~#30
7.2	Terminal crimp Tensile strength	When crimped AWG#26 size wire When crimped AWG#28 size wire When crimped AWG#30 size wire	More than 2.0 Kgf More than 1.3 Kgf More than 0.8 Kgf
7.3	Terminal insertion force	Insertion speed 25± 3 mm per minute into housing	Less than 600 gram
7.4	Contact retaining force in insulator	Retention speed 25± 3 mm per minute from housing	More than 3.2 Kgf
7.5	Single contact insertion force	Measure force to insertion using Ø 0.78 mm test pin at speed 25± 3 mm per minute	240 gram max.
7.6	Single contact withdrawal force	Measure force to withdrawal using Ø 0.74 mm test pin at speed 25± 3 mm per minute	15 gram min.
7.7	Durability	Connector shall be subjected 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.
8.3	Heat aging	105 ± 2°C , 96 hours	No damage



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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
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	ITEM	TEST CONDITION	REQUIREMENT
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

10. MATING FORCE AND UNMATING FORCE:

Unit: Kgf

No. of Circuits	Mating Force (Initial max.)	Unmating Force (Initial max.)
15	5.1	3.8
26	9.2	6.9
44	12.6	8.6
62	16.4	10.8