

ENGINEERING DEPT.		PRODUCT SPECIFICATION For CID2 Series Connector System	SPEC.NO.: SPCI128B
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1. SCOPE:

This specification contains the test requirement of subject connectors when tested under the condition and procedure with terminals crimped on the specified maximum size wire

2. APPLICABLE STANDARDS:

MIL - STD - 202 Methods for test of connectors for electronic equipment
EIA - 364 Test methods for electrical connectors

3. APPLICABLE SERIES NO: CID2 Series

4. SHAPE, CONSTRUCTION AND DIMENSIONS

See attached drawings

5. MATERIALS

See attached drawings

6. ACCOMMODATED P.C.BOARD

6.1 Thickness: 0.6 mm (.024") ~ 1.2 mm (.047"),1.6mm(.063")

6.2 P.C. Board Layout: See attached drawings



REVIEWED : Eisley APPROVED : Sun VERIFIED : Eric .

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7. ELECTRICAL PERFORMANCE:

	ITEM	TEST CONDITION	REQUIREMENT
7.1	Rated current and voltage		3A 250V AC (r.m.s.)/DC
7.2	Contact resistance	Dry circuit of DC 50 mV max. , 50 mA max.	10 mΩ Max.
7.3	Dielectric strength	When applied AC 1500 V 1 minute between adjacent terminal	No change

8. MECHANICAL PERFORMANCE:

	ITEM	TEST CONDITION	REQUIREMENT		
8.1	Insertion force	Mating speed : 25 ±3 mm / minute.	2.0 lbs Max.		
8.2	Extraction force	Disengaging speed : 25 ±3 mm / minute.	0.45 lbs Min.		
8.3	Durability	When mated up to 30 cycles by the rate of 10 cycles per minute.	Insertion / Extraction force: Refer 8.1 & 8.2 Contact resistance: Less than twice of initial		
8.4	Terminal/ Housing Retention force	Apply axial pull out force on the terminal assembled in the housing. Retention speed : 25 ±3 mm / minute.	1.0 kg Min.		
8.5	Wire size	Specified wire size	AWG #22~#28		
8.6	Terminal tensile strength	Disengaging speed : 25 ±3 mm / minute.	Unit : pounds (Min.)	parallel	perpendicular
			# 22(0.3-0.4 mm ²)	12	3
			# 24(0.2 mm ²)	8	1
			# 26(0.12-0.15 mm ²)	6	1
			# 28(0.08-0.09 mm ²)	4	1

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9. ENVIRONMENTAL PERFORMANCE:

	ITEM	TEST CONDITION	REQUIREMENT
9.1	Salt spray	Temperature: $35 \pm 3^{\circ}\text{C}$ Solution: $5 \pm 1\%$ Spray time: 48 ± 4 hours (Stamping before plated) Spray time: 24 ± 4 hours (Stamping after plated) Mate connectors and expose to the following salt mist conditions. Upon completion of the exposure period, salt deposits shall be removed by a gentle wash or dip in running water and dried naturally, after which the specified measurements shall be performed. The specimens shall be suspended from the top using waxed twine, string or nylon thread. The test only define the plating area, without plating area (as copper cross section) will not be defined. (EIA 364-26B / MIL-STD-202 Method 101)	Appearance: No damage Contact resistance: Less than twice of initial
9.2	SO ₂ gas	24 hrs. in sulfur dioxide gas(SO ₂) 50 ± 5 ppm at $40 \pm 2^{\circ}\text{C}$	Contact resistance: Less than twice of initial
9.3	NH ₄ gas	40 Min. in saturated. ammonia gas by 28% liquid ammonia at $25 \pm 2^{\circ}\text{C}$	Appearance: No damage Contact resistance: Less than twice of initial

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