

ENGINEERING DEPT.	PRODUCT SPECIFICATION	SPEC.NO.: SPCI1352
REVISIONS:	For CID7 Series Connector System	PAGE: 1/5

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
J-STD-020	Resistance to soldering Temperature for through hole Mounted Devices
SS-00254	Test methods for electronic components ,LEAD-FREE soldering Part design standards

3. APPLICABLE SERIES NO: CID7 Series

4. SHAPE, CONSTRUCTION AND DIMENSIONS

See attached drawings

5. MATERIALS

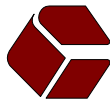
See attached drawings

6. ACCOMMODATED P.C.BOARD

6.1 Thickness: 0.8 mm (.031") ~ 1.6 mm (.063")

6.2 P.C. Board Layout: See attached drawings

REVIEWED : Eisley APPROVED : Eisley VERIFIED : Sun .



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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 20 mV max. , 10 mA .	Initial: Less than 20 mΩ After test: Less than 30 mΩ
7.3	Dielectric strength	When applied AC 800 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	Wire size	Specified wire size	Accepts AWG#22~#26
8.2	Terminal crimp Tensile strength	When crimped AWG#22 size wire When crimped AWG#24 size wire When crimped AWG#26 size wire	More than 4.0 Kgf More than 3.0 Kgf More than 2.0 Kgf
8.3	Terminal insertion force	Insertion speed 25± 3 mm per minute into housing	Less than 1.0 Kgf
8.4	Terminal retaining force in insulator	Retention speed 25± 3 mm per minute from housing	More than 2.0 Kgf
8.5	Durability	Connector shall be subjected to 50 cycles of insertion and withdrawal	Contact resistance: Less than 30 mΩ
8.6	Pin retention force	Push pin from insulator base at speed 25± 3 mm per minute	2P(Stopper inside) More than 2.0Kgf 3~22P(W/O Stopper) More than 1.5Kgf

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 Contact resistance: Less than 30 mΩ Discontinuity: 1 micro second max.

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	ITEM	TEST CONDITION	REQUIREMENT
9.3	Solder ability	Soldering time: 3 ± 0.5 second Soldering pot: $245 \pm 5^{\circ}\text{C}$	Minimum: 95% of immersed area
9.4	Resistance to soldering heat	Soldering time: 5 ± 0.5 second Soldering pot: $260 \pm 5^{\circ}\text{C}$	No damage
9.5	Physical shock	EIA 364 - 27 Condition B Subject mated connectors to 50 G's half - sine shock pulses of 11 ms duration Three shocks in each direction applied along three mutually perpendicular planes , 3 total hocks	Appearance: No damage Contact resistance: Less than $30\text{ m}\Omega$ No discontinuities of $1\ \mu\text{s}$
9.6	Heat aging	$85 \pm 2^{\circ}\text{C}$, 96 hours	Appearance: No damage Contact resistance: Less than $30\text{ m}\Omega$
9.7	Cold aging	$-25 \pm 5^{\circ}\text{C}$, 96 hours	Appearance: No damage Contact resistance: Less than $30\text{ m}\Omega$
9.8	Humidity	$40 \pm 2^{\circ}\text{C}$, 90-95% RH , 96 hours measurement must be taken within 30 min. after tested	Appearance: No damage Contact resistance: Less than $30\text{ m}\Omega$ Dielectric strength: To pass para 5-1-3 Insulation resistance: More than $500\text{ M}\Omega$
9.9	Temperature cycling	Five cycle consists of : (1)- 55°C , 30 min. (2)+ 85°C , 30 min.	Appearance: No damage Contact resistance: Less than $30\text{ m}\Omega$
9.10	Salt spray	Temperature: $35 \pm 2^{\circ}\text{C}$ Solution: $5 \pm 1\%$ Spray time: 24 ± 1 hours Measurement must be taken after water rinse	Appearance: No damage Contact resistance: Less than $30\text{ m}\Omega$

10. AMBIENT TEMPERATURE RANGE: -25 to $+85^{\circ}\text{C}$

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11. First Insertion and 30th Withdrawal Force:

PIN No.	First Insertion(kgf max.)	30 th Withdrawal(kgf min.)
1	1.0	0.1
2	1.5	0.5
3	2.5	0.7
4	3.0	0.9
5	3.5	1.1
6	4.0	1.3
7	4.5	1.5
8	5.0	1.7
9	5.5	1.9
10	6.0	2.1
11	6.5	2.3
12	7.0	2.5
13	7.5	2.7
14	8.0	2.9
15	8.5	3.1
16	9.0	3.3
17	9.5	3.5
18	10.0	3.7