

ENGINEERING DEPT.		PRODUCT SPECIFICATION or CI01 Series Dual Row Adapter Connector	SPEC.NO.: SPCI060B
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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
MIL - STD - 1344	Test methods for electrical connectors
SS-00254	Test methods for electronic components ,LEAD-FREE soldering Part design standards

3. APPLICABLE SERIES NO: CI01 Dual Row Adapter Series

4. SHAPE, CONSTRUCTION AND DIMENSIONS

See attached drawings

5. MATERIALS

See attached drawings



REVIEWED : David APPROVED : Eisley VERIFIED : Karen .

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6. ELECTRICAL PERFORMANCE:

	ITEM	TEST CONDITION	REQUIREMENT
6.1	Rated current and voltage		3A 250V AC/DC (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 500 V 1 minute 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	Wire size	Specified wire size	Accepts AWG#22~#28
7.2	Terminal crimp Tensile strength	When crimped AWG#22 size wire When crimped AWG#24 size wire When crimped AWG#26 size wire When crimped AWG#28 size wire	More than 5.0 Kgf More than 3.0 Kgf More than 2.0 Kgf More than 1.3 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 1.5 Kgf
7.5	Single contact insertion force	Measure force to insertion using 0.50 mm square pin at speed 25± 3 mm per minute	400 gram max.
7.6	Single contact withdrawal force	Measure force to withdrawal using 0.50 mm square pin at speed 25± 3 mm per minute	100 gram min.
7.7	Durability	Connector shall be subjected to 30 cycles of insertion and withdrawal	Contact resistance: Less than twice of initial
7.8	Pin retention force	Push pin from insulator base at speed 25± 3 mm per minute	More than 0.5 Kgf

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	85 ± 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 7-3
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: -25 to + 85°C

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10. Mating and Un-mating Force:

10.1 WITHOUT LATCH TYPE HOUSING

PIN No.	Mating(kgf max.)	Un-mating(kgf min.)
6	1.8	0.48
8	2.4	0.64
10	3.0	0.80
12	3.6	0.96
14	4.2	1.12
16	4.8	1.28
18	5.4	1.44
20	6.0	1.60
22	6.6	1.76
24	7.2	1.92
26	7.8	2.08
28	8.4	2.24
30	9.0	2.40
32	9.6	2.56

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10.2WITH LATCH TYPE HOUSING

PIN No.	Mating(kgf max.)	Un-mating(kgf min.)
6	1.8	2.50
8	2.4	2.70
10	3.0	2.90
12	3.6	3.10
14	4.2	3.30
16	4.8	3.50
18	5.4	3.70
20	6.0	3.90
22	6.6	4.10
24	7.2	4.30
26	7.8	4.50
28	8.4	4.70
30	9.0	4.90
32	9.6	5.10