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| ENGINEERING DEPT. | | PRODUCT SPECIFICATION For CI26 Connector System | SPEC.NO.: SPCI008G |
| REVISIONS | ECNT120150 | | PAGE: 1/3 |

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.: CI26 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 : Eisley APPROVED : Sun VERIFIED : Michelle .

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|--------------------------|-------------------|--|---------------------------|
| ENGINEERING DEPT. | | PRODUCT SPECIFICATION For CI26 Connector System | SPEC.NO.: SPCI008G |
| REVISIONS | ECNT120150 | | PAGE: 2/3 |

7. ELECTRICAL PERFORMANCE:

| | ITEM | TEST CONDITION | REQUIREMENT |
|-----|---------------------------|---|---------------------|
| 7.1 | Rated current and voltage | | 3A 250V AC (r.m.s.) |
| 7.2 | Contact resistance | Dry circuit of DC 20 mV max. , 100 mA max. | Less than 20 mΩ |
| 7.3 | Dielectric strength | When applied AC 1000 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~#28 |
| 8.2 | 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 |
| 8.3 | Terminal insertion force | Insertion speed 25± 3 mm per minute into housing | Less than 500 gram |
| 8.4 | Contact retaining force in insulator | Retention speed 25± 3 mm per minute from housing | More than 1.5 Kgf |

9. ENVIRONMENTAL PERFORMANCE:

| | ITEM | TEST CONDITION | REQUIREMENT |
|-----|------------------------------|--|---|
| 9.1 | Temperature rise | Then carried the rated current | 30° C max. |
| 9.2 | Solder ability | Soldering time: 5 ± 0.5 second Soldering pot: 230 ± 5° C | Minimum: 90% of immersed area |
| 9.3 | Resistance to soldering heat | Soldering time: 5 ± 0.5 second Soldering pot: 260 ± 5° C | No damage |
| 9.4 | Heat aging | 85 ± 2° C , 96 hours | No damage |
| 9.5 | Humidity | 40 ± 2° C , 90-95% RH , 96 hours measurement must be taken within 30 min. after tested | Appearance: No damage Dielectric strength: To pass para 7-3 |

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|--------------------------|-------------------|--|---------------------------|
| ENGINEERING DEPT. | | PRODUCT SPECIFICATION For CI26 Connector System | SPEC.NO.: SPCI008G |
| REVISIONS | ECNT120150 | | PAGE: 3/3 |

| | ITEM | TEST CONDITION | REQUIREMENT |
|-----|---------------------|---|--|
| 9.6 | Temperature cycling | One cycle consists of : (1) -55_{-3}^{+0} °C , 30 min. (2) Room temp. 10-15 min. (3) 85_{-0}^{+3} °C , 30 min. (4) Room temp. 10-15 min. | Appearance: No damage |
| 9.7 | Salt spray | Temperature: 35 ± 3 °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 |

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