

<b>ENGINEERING DEPT.</b>		<b>PRODUCT SPECIFICATION</b> <b>For CF65 Series Connector System</b>	<b>SPEC.NO.: SPCF079A</b>
<b>REVISIONS</b>	<b>ECNT115134</b>		<b>PAGE: 1/4</b>

1. SCOPE:

This product specification contains the test method the general performance and requirement for CF61 series connectors.

2. APPLICABLE DOCUMENTS:

Reference documents listed below shall be the latest revision unless otherwise specified. Should a conflict occur between this specification and any of the listed documents then this specification shall prevail.

2.1 Industry standards :

EIA-364-□□ electrical connector test procedures

3. SHAPE, CONSTRUCTION AND DIMENSIONS

See attached drawings

4. MATERIALS

See attached drawings

5. ACCOMMODATED P.C.BOARD

5.1 Thickness: 0.5 mm (.020") ~ 2.0 mm (.079")

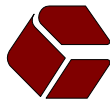
5.2 P.C. Board Layout: See attached drawings

6. FPC/FFC RECOMMENDED SPECIFICATION:

Thickness : 0.3±0.03 mm (.012±.002")



REVIEWED : Eisley APPROVED : Eisley VERIFIED : Clark .



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7. ELECTRICAL PERFORMANCE:

	ITEM	TEST CONDITION	REQUIREMENT
7.1	Rated current and voltage		0.5A DC 50V AC
7.2	Contact Resistance	Measured at 20 mV maximum open circuit at 100mA .Mated test contacts must be in a connector housing. ( EIA364-23 )	Initially :20 mΩ Max. Finally :40 mΩ Max.
7.3	Dielectric strength	Test between adjacent contacts with a voltage of 250 VAC for 1 minute at Sea level. ( EIA364-20 Method B )	No current leakage and flashover or damage detected.
7.4	Insulation Resistance	After 500 V DC for 1 minute , measure the insulation resistance between the adjacent contacts. ( EIA364-21 )	500 MΩ Min.

8. MECHANICAL PERFORMANCE:

	ITEM	TEST CONDITION	REQUIREMENT
8.1	Contact retaining force in insulator	The end of terminal shall be pulled in a perpendicular to base housing at a maximum rate of 25.4 ± 3 mm per minute. ( EIA 364-29 )	0.10 Kgf Min.
8.2	FFC/FPC Retention Force	Apply axial load to FFC/FPC by operating at the speed rate of 25.4 ± 3 mm per minute.	0.03 Kgf/Pin Min.
8.3	Durability	Connector shall be subjected to 20 cycles of insertion and withdrawal	Appearance: No damage Contact Resistance : Less than 40 mΩ FFC/FPC retention force: 0.03 Kgf/Pin min

9. ENVIRONMENTAL PERFORMANCE:

	ITEM	TEST CONDITION	REQUIREMENT
9.1	Temperature rise	Then carried the rated current	30°C max.
9.2	Vibration	Subject mated FFC/FPC, All contacts shall be connected in series and DC 100mA shall be applied. Frequency:10~55 Hz Full amplitude1.5mm in 3 directions for 2 hours respectively. ( EIA 364 – 28 Condition I )	Appearance: No damage Discontinuity: 1 micro second max.

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	ITEM	TEST CONDITION	REQUIREMENT
9.3	Solder ability	Soldering time: $3 \pm 0.5$ second Soldering pot: $245 \pm 5^{\circ}\text{C}$	Minimum: 95% of immersed area
9.4	Resistance to soldering heat	Lead-Free Process for SMT Type: Refer Reflow temperature profile(4.1)	No damage
9.5	Hand Soldering Method	Use a soldering iron that has a sufficient head capacity and high stability of temperature. The tip of the iron should be shaped so as not to touch the part body directly. Temperature : $380 \pm 10^{\circ}\text{C}$ 3s	No damage
9.6	Heat aging	Subject unmated connectors to temperature life at $85^{\circ}\text{C} \pm 2^{\circ}\text{C}$ for 96 hours. ( EIA 364 – 17 Test Condition III Method A )	Appearance : No damage Contact resistance shall meet requirement of 7.2
9.7	Humidity	Subject unmated connectors to 96 hours at $40^{\circ}\text{C}$ with 90% to 95% RH. ( EIA 364 – 31 Method II Test Condition A )	Appearance : No damage Contact resistance and insulation resistance shall meet requirement of 7.2, 7.4
9.8	Temperature cycling	Subject unmated connectors shall be tested in accordance with EIA364–32 Test Condition I . (1)- $55^{\circ}\text{C}$ ,30 minute (2)+ $25^{\circ}\text{C}$ ,5 minute (3)+ $85^{\circ}\text{C}$ ,30 minute (4)+ $25^{\circ}\text{C}$ ,5 minute consecutive 5 cycles.	Appearance: No damage Contact resistance shall meet requirement of 7.2
9.9	Salt spray	Temperature: $35 \pm 3^{\circ}\text{C}$ Solution: $5 \pm 1\%$ Spray time: $48 \pm 4$ hours Measurement must be taken after water rinse	Appearance: No damage Contact resistance: Less than twice of initial

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10. Operating temperature range : -40°C to +85°C ; Storage temperature range : -40°C to +85°C

11. Recommended Temperature Profile(Lead-Free):

