



Part No.	YY-4000	PRODUCT SPECIFICATION		Document No.		SP4000-02													
Title	6.35mm(.250") Centerline, Mate-and-Lock Connectors			Rev.	A0	Page	1 of 4												
 1. Applicable Standards MIL-STD-202 Methods for test of connectors for electronic equipment MIL-STD-1344 Test methods for electrical connectors 2. Product & Part Number <table border="1"><tr><td>Product Name</td><td>Product Number</td></tr><tr><td>Housing</td><td>YY-4000-HF(S)&HM(S)</td></tr><tr><td>Terminal</td><td>YY-4000-T</td></tr></table> 3. Material <table border="1"><tr><td>Product Name</td><td>Material</td></tr><tr><td>Housing</td><td>Nylon 66 UL94-V2 Nylon 66 UL94-V0</td></tr><tr><td>Terminal</td><td>Brass & Phosphor Bronze Tin-plated</td></tr></table> 4. Shape, Construction and Dimensions See attached drawings								Product Name	Product Number	Housing	YY-4000-HF(S)&HM(S)	Terminal	YY-4000-T	Product Name	Material	Housing	Nylon 66 UL94-V2 Nylon 66 UL94-V0	Terminal	Brass & Phosphor Bronze Tin-plated
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Created		Checked		Approved		Date													
Frank		Denise		Jessica		2010/10/28													



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5. Electrical Performance

	ITEM	TEST CONDITION	REQUIREMENT
5-1	Rated Voltage (Max.)		400V AC (r.m.s.)
	Rated Current and Applicable Wire	Circuits	Current
		2	13A
		3	13A
		4	13A
		5	11A
		6	11A
		9	11A
		12	11A
		15	11A
5-2	Contact Resistance	Dry circuit of DC 20mV Max., 100mA Max.	3.5mΩ Max.
5-3	Dielectric Strength	When applied AC 5000V 1minute between adjacent terminal	No Change
5-4	Insulation Resistance	When applied DC 500 V between adjacent terminal or ground	1000MΩ Min.

6. Mechanical Performance

	ITEM	TEST CONDITION	REQUIREMENT	
6-1	Wire size	Specified wire size	Accepts AWG#12~#22	
6-2	Crimping Pull Out Force	Fix the crimped terminal , apply axial pull out force on the wire at the speed rate of 25±3mm/minute	AWG#12	KgfMin.
			AWG#14	22.0KgfMin.
			AWG#16	20.0KgfMin.
			AWG#18	13.0KgfMin.
			AWG#20	6.0KgfMin.
			AWG#22	KgfMin.



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	ITEM	TEST CONDITION	REQUIREMENT
6-3	Terminal Insertion Force	Insertion speed 25 ± 3 mm/minute into housing	0.9Kgf Max.
6-4	Terminal/Housing Retention Force	Apply axial pull out force at the speed rate of 25 ± 3 mm/minute on the terminal assembled in the housing	6.8Kgf Min.
6-5	Single Contact Insertion Force	Measure force to insertion using mating square pin at speed 25 ± 3 mm/minute	0.7Kgf Max.
6-6	Single Contact Withdrawal Force	Measure force to withdrawal using mating square pin at speed 25 ± 3 mm/minute	0.2Kgf Min.
6-7	Durability	Connector shall be subjected to 50 cycles of insertion and withdrawal	Contact resistance: Less than twice of initial

7. Environmental Performance

	ITEM	TEST CONDITION	REQUIREMENT
7-1	Temperature rise	Then carried the rated current	30°C Max.
7-2	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.
7-3	Heat aging	$85 \pm 2^\circ\text{C}$, 96 hours	No Damage
7-4	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 twice of initial Dielectric strength: To pass para. 5-3
7-5	Temperature cycling	One cycle consists of: (1) $-55^{+0}_{-3}^\circ\text{C}$, 30 min. (2) Room temp. 10-15 min. (3) $85^{+3}_{-0}^\circ\text{C}$, 30 min. (4) Room temp. 10-15 min.	Appearance: No damage Contact resistance: Less than twice of initial



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	ITEM	TEST CONDITION	REQUIREMENT
7-6	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

8. Ambient Temperature Range : -55 to +105 °C