



Part No.	YY-4000-GT	<b>PRODUCT SPECIFICATION</b>	Document No.		SP4000-GT-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

Product Name	Product Number
Housing	YY-4000-HF(S)-GT&HM(S)-GT
Terminal	YY-4000-T
Wafer	YY-4000-WF(S)&WM(S)

### 3. Material

Product Name	Material	
Housing	GWT750°C No Flame Nylon 66 UL94-V0	
Terminal	Brass & Phosphor Bronze Tin-plated	
Wafer	Body	GWT750°C No Flame Nylon 66 UL94-V0
	Pin	Phosphor Bronze ; Tin-plated

### 4. Shape, Construction and Dimensions

See attached drawings

Created	Checked	Approved	Date
Frank	Denise	Jessica	2011/12/23



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## 5. Electrical Performance

	ITEM	TEST CONDITION	REQUIREMENT
5-1	Rated Voltage (Max.)		600V 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	31.0KgfMin.
			AWG#14	22.0KgfMin.
			AWG#16	20.0KgfMin.
			AWG#18	13.0KgfMin.
			AWG#20	6.0KgfMin.
			AWG#22	6.0KgfMin.



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	ITEM	TEST CONDITION	REQUIREMENT
6-3	Terminal Insertion Force	Insertion speed 25±3mm/minute into housing	2.3Kgf 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	Solid pins 2.3Kgf Max. Split pins 0.7Kgf Max.
6-6	Single Contact Withdrawal Force	Measure force to withdrawal using mating square pin at speed 25±3 mm/minute	Solid pins 0.3Kgf Min. Split pins 0.2Kgf Min.
6-7	Panel Retention	Insert cap housing into panel cut out per., push cap opposite the way it was assembled until the locking barbs break, record the maximum force	34.0Kgf Min.
6-8	Pin Retention Force	Apply axial pull out force on the pin assembled in the plastic	2.5Kgf Min.
6-9	Durability	Connector shall be subjected to 50 cycles of insertion and withdrawal	Contact resistance: Less then 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±2°C , 96 hours	No Damage
7-4	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. 5-3



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	ITEM	TEST CONDITION	REQUIREMENT
7-5	Temperature cycling	One cycle consists of: (1)-55 <sup>+0</sup> <sub>-3</sub> °C , 30 min.  (2)Room temp. 10-15 min. (3) 85 <sup>+3</sup> <sub>-0</sub> °C , 30 min.  (4)Room temp. 10-15 min.	Appearance: No damage Contact resistance: Less than twice of initial
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