The subject products should meet the following requirements when tested under the condition of involving all circuits with terminals crimped on the specified maximum size wire.

1. Electrical Performance

	Item	Test Condition		Requirement
1-1	Rated voltage and current		1~15 CKTS.	AC&DC 250V 5A
			24 CKTS.	AC&DC 250V 4A
1-2	Contact resistance	Mate connectors measure by Dry Circuit, 20mV max., 10mA.		10 mΩ max.
1-3	Dielectric strength	When applied AC 1500V 1 minute between adjacent terminals or ground		No breakdown
1-4	Insulation resistance	When applied DC 500V between adjacent terminals or ground		1000 MΩ min.

2. Mechanical Performance

	Item	Test Condition		Requirement
2-1	Insertion force	Mating speed : 25±3mm/minute		See para 7
2-2	Extraction force	Disengaging speed : 25±3mm/minute		See para 7
2-3	Durability	When mated up to 30 cycles by the rate of 10 cycles per minute	Contact resistance	20 mΩ max.
			Insertion extraction force	See para 7
2-4	Terminal retention force	Pull speed : 25±3mm/minute		7.0 kg min.
2-5	Terminal strength	When applied a load of 500gw, 1 minute		No damage

3. Environmental Performance

	Item	Test Condition		Requirement
3-1	Temperature rise	When carried the rated current		30 ℃ max.
3-2	Vibration	1.5mm,10-55-10Hz/min.,each 2 hrs. for X,Y&Z directions, appling 1mA-DC current	Contact resistance	20 mΩ max.
			Discontinuity	1μsec. max.
			Appearance	No damage
3-3	Shock	50G,each 3 times for X,Y,Z directions, appling 1mA-DC current	Discontinuity	1μsec. max.
			Appearance	No damage

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	Item	Test Condition		Requirement
3-4	Solderability	Soldering time : 3 ± 0.5 sec. Soldering pot : 230 ± 5 ℃		Min. 3/4 of immersed area
3-5	Resistance to soldering heat	Soldering time : 5 ± 0.5 sec. Soldering pot : 260 ± 5 ℃		No damage
3-6	Heat resistance	85 ± 2℃, 96 hours	Contact resistance	20 mΩ max.
			Appearance	No damage
3-7	Humidity	Temperature : 40±2℃ Relative Humidity: 90~95% Duration : 96 hours Measurement must be taken within 30 minute after tested	Contact resistance	20 mΩ max.
			Dielectric strength	To pass para 1-3
			Insulation resistance	100 MΩ min.
			Appearance	No damage
3-8	Temperature cycling (5 cycles)	One cycle consists of (1) -55±3℃, 30 minute (2) Room temp. 10~15 minute (3) 105±2℃, 30 minute (4) Room temp. 10~15 minute	Contact resistance	20 mΩ max.
			Appearance	No damage
3-9	Salt Spray	Temperature: 35±2℃ Solution : 5±1% Spray time : 48±4 hours Measurement must be taken after water rinse.	Contact resistance	20 mΩ max.
			Appearance	No significant corrosion
3-10	SO_2 Gas	24 hours in sulfur dioxide gas (SO_2) 50±5ppm at 40±2℃	Contact resistance	20 mΩ max.

4. Terminal To Be Used

	Customer P/No.	Molex P/No.	Wire Size	Insulation Dia.
1.		1560,1561	AWG #18 ~ #24	φ(1.5) ~ 3.1
2.		1854,1855	AWG #22 ~ #28	φ(1.1) ~ 1.5
3.		1778,1779	----------	----------
4.				

5. Ambient Temperature Range : -40℃ ~ 105℃

6. Construction,Dimension and Material : Specified by the attached drawing.

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7. Insertion and Extraction Force

No. of Ckt.	Insertion Force (kgf, max.)			Extraction Force (kgf, min.)		
	1st	6th	30th	1st	6th	30th
1	5.0	4.5	4.5	0.8	0.5	0.5
2	7.0	6.0	6.0	1.5	1.0	1.0
3	10.0	9.0	8.0	1.8	1.2	1.2
4	13.0	12.0	10.0	2.0	1.4	1.4
5	15.5	14.0	11.0	2.3	1.5	1.5
6	18.0	16.0	12.0	2.5	1.6	1.6
9	26.0	23.0	17.0	3.5	2.5	2.5
12	34.0	30.0	23.0	4.5	3.5	3.5
15	40.0	35.0	30.0	5.5	4.5	4.5
24	60.0	55.0	50.0	6.5	5.5	5.5