DR CHK DATE

REVISION RECORD

4. Quality Assurance Provisions:

4.1 Test Conditions:

Unless otherwise specified, all the tests shall be performed under any combination of the following test conditions.

Temperarture

: 15-35 °C

Relative Humidity

45-75 %

Atmospheric Pressure

650-800 mmHg

4.2 Test Specimens:

The test specimens to be employed for the testing shall be selected from the normal production, conforming to the applicable drawing (s), and prepared in accordance with AMP Application Specification, 114-5130, using the wires of the sizes specified in Para. 3.4. The samples shall be not reused, unless otherwise specified.

5. Performance Requirements and Test Methods:

Para.	Test Items	Re	quirements		Procedures			
5.1	Appearance	Product sha abnormaliti cracks, defor and burrs th to connector merchandis	es such as s rmation, bl at are detri functions a	cratch, ister, dirt imental	Visual inspection.			
5.2	Crimp Tensile Strength	Wire Size mm ² (AWG)	Tensile Strength kg (min)		-		Apply an axial pull-off load to contact crimped on applicable wire (about 100 mm in length), at a rate of 100 mm a	
		0.3 (#22)		<u> </u>	minute. Measure the force required to			
		0.5 (#20)	7	7	break wire or separates wire from			
		0.75 (#18)	1	2	crimp without insulation barrel			
	Contact insertion	Ins. Force	Sep. Force		Apply force to contact with the use of tensile tester at a rate of 100 mm a			
5.3	Contact Separating Forces	(kg) (max.)	Initial (kg)	10th Cycle (kg)	minute, with ignition plug fixed. Measure the forces required to insert			
		5.0	1.0 to 5.0	0.8 to 5.0	or separate contact.			

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P	ara.	Test Items	Requirements	Procedures
	5.4	Temperature Rise	30°C max.	Apply rated current to contact crimped on applicable range of wire, with it mated with plug. Take temperature reading on thermocouple attached to crimp, in stable condition reached. Temperature rise equals the above reading value minus room temperature.
עע	5.5	Termination Resistance (Low Level)	100 m Ω max.	Subject contacts mated with plug to 50 mV open circuit at 100 mA maximum Measure as indicated in Fig. 1. Calculate resistance values by subtracting resistance of wire (75 mm and plug (55 mm) from the measured value.
		Wire	Contact 75 mm Fig. 1	Ignition Plug 55 mm

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Para.	Test Items	Requirements	Procedures
Para. 5.6	Vibration Sinusoidal Low Frequency	Requirements Termination Resistance, (low level): 150 mΩ max. Securely fix provided in the secure of the secure	Subject contacts mated with plug to the following conditions as specified in MIL-STD-202, Method 201 with them fixed on vibration tester as indicated in Fig.2: Frequency: 10-55-10 Hz traversed in 1 minute. Total excursion: 1.5 mm Duration: 2 hours in each of 3 mutually perpendicular axes (X,Y,and Z) Subject samples to termination resistance (low level) test after vibration test.
5.7	Humidity Steady State	Termination Resistance (low level): 150 mΩ max.	Subject mated samples to the following conditions as specified in MIL-STD-202, Method 103: Temperature: 40°C Humidity: 90 to 95% Duration: 96 hours Subject low level termination resistance test after the above test.

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	Рага.	Test Items	Requirements	Procedures						
NUMBER: 100-5307	5.8	Thermal Shock	Termination Resistance (low level): 150 mΩ max.	Subject mated samples to 25 cycles of the following test conditions as specified in MIL-STD-202, Method 107: Step of Temp Shift Exposure Condition 1 150 \pm $\frac{3}{0}$ °C, 30 minutes 2 Room Temp. 5 minutes 3 $-20\pm\frac{3}{3}$ °C 30 minutes 4 Room Temp. 5 minutes						
SELUTION: Customer CLASSIFICATION: Release	5.9	Salt Spray	Termination Resistance (low level): 15 mΩ max.	Subject mated samples to the following conditions as specified in MIL-STD-202, Method 101, Condition B: Salt concentration: 5% Temperature: 35°C Duration: 48 hours Measure termination resistance after samples cleaned in tap water and dried in the room temperature for 1 hour.						
	5.10	Temperature Life	Termination Resistance (low level): 150 mΩ max.	Subject mated samples to the following conditions as specified in MIL-STD-202, Method 108: Temperature: 150 °C Daration: 96 hours Measure termination resistance (low level) on samples after the above exposure test.						

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6. Product tests and Sequences:

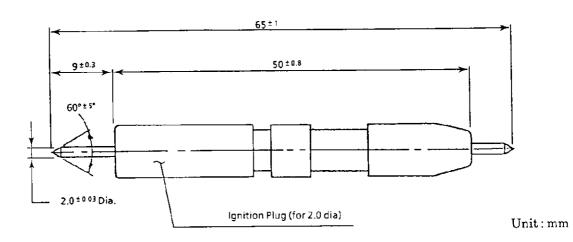
Products tests and sequences, shall be performed in accordance with the following table:

Classification					Test	Seque	ence			
Group Test Item	Para	I П Ш				IA				
Appearance	5.1	1	1	1						
Crimp Tensile Strength	5.2	2								
Contact Insertion Force	5.3		2						·	
Contact Separating Force	5.3		3							
Temperature Rise	5.4									1
Temperature Resistance Low level	5.5			2	4	6	8	10	12	
Vibration Low frequency	5.6			3						
Humidity	5.7				5					
Thermal Shock	5.8					7				
Salt Spray	5.9						9			
Temperature Life	5.10							11		

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NAME	D	ia I	anit	ion Plug Con	tant		

2.0 mm Dia. Ignition Plug Contact for Frame Sensor Device

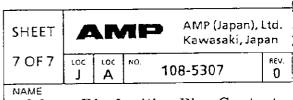
7. Mating Plug: Mating plug to be used for product performance test shall have dimensions as indicated in Fig. 3.



Note: 1. Material for plug shall be heat resistant alloy for high temperature. (YSS-YSTT)

Unplated Plug shall be used.

Fig. 3



2.0 mm Dia. Ignition Plug Contact for Frame Sensor Device