3.1 Design and Construction:

> Product shall be of the design, construction and physical dimensions specified in the applicable product drawing.

						DR. Tuasa CHK.	SHEET 1 OF			AND (Japan), Ltd. Kawasaki, Japan	
H							5	roc	LOC A	NO. 108-5108	REV.
PRINT DIST.	B LTR	Revised RFA-2050 REVISION RECORD	K?g	CHK	8/17 DATE	Jomate	NAME			g Short Contact & lug Receptacle	. · ·

- 3.2 Materials:
 - A. Contact: ASTM B36 Copper Alloy No. 260 Pre-tinned brass or Plain brass
- 3.3 Ratings:
 - A. Temperature Rating:

-30 °C to 105 °C

3.4 Performance and Test Descriptions:

The product shall be designed to meet the electrical, mechanical and environmental performance requirements specified in Fig. 2. All tests shall be performed in the room temperature, unless otherwise specified.

3.5 Test Requirements and Procedures Summary:

Para.	Test Items	Requirements	Procedures				
Electrical Requirements							
3.5.1	Termination Resistance (Specified Current)	Test (A) Resistance Current mV/A (Max. 4 Initial: 10 Final: 20	Measure initial millivolt drop of contact test circuit in mated connectors. Fig. 1 AMP Spec. 109-5311-2				
3.5.2	Temperature Rising	20 °C Max. under loaded specified current.	Measure temperature rising by energized current. AMP Spec. 109-5310 Method				
3.5.3	Contact Mating Force	58.8 N (6 kgf) Max.	Operation Speed: 100 mm/min. Measure the force required to mate connectors. AMP Spec. 109-5206 Condition				
3.5.4	Contact Unmating Force	14.7~68.6 N (1.5~7 kgf)	Operation Speed: 100 mm/min. Measure the force required to unmate connectors. AMP Spec. 109-5206 Condition				

Fig. 1 (to be continued)

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2 OF 5	LOC J	LOC A	NO.	108-5108	REV.	
NAME						
Shur-Plug Short Contact &						
Shur Plug Receptacle						

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NUMBER:	•
Customer Release	
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Para.	Test Items	<u> </u>	Requirements			Procedures
3.5.5	Crimp Tensile Strength	mm ²	e Size (AWG)	(m	Tensile in.) (kgf)	Apply an axial pull-off load to crimped wire of contact secured on the tester. Operation Speed: 100 mm/min. AMP Spec. 109-5205
		0.5 0.85 1.25	(#20) (#18) (#16)	88 127 147	(9) (13) (15)	Condition
3.5.6	Thermal Shock	20 mΩ	Max. (Fin	ıal)		-55°C/30 min., 85°C/30 min. Making this a cycle, repeat 1 cycles. AMP Spec. 109-5103 Condition
3.5.7	Salt Spray	20 mΩ	Max. (Fin	ıal)		Subject mated / unmated connectors to 5 % salt concentration for 24 hours; MIL-STD-202, Method 101 AMP Spec. 109-5101 Condition

Fig. 1 (end)

2 Product Qualification and Requalification Tests.

	Test Group (a)							
Test or Examination	1	2	3	4	5			
		Test Sequence (c)						
Confirmation of Product	1	1	1	1	1			
Termination Resistance (Specified Current)				2, 4	2, 4			
Temperature Rising			2					
Connector Mating Force	2			<u> </u>				
Connector Unmating Force	3							
Crimp Tesile Strength		2						
Thermal Shock				3				
Salt Spray					3			

- (a) See Para 4.1.A.
- (b) Number indicate sequence in which tests are performed.
- (c) Discontinuities shall not tale place in this test group, during tests.

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	Shue Plug Receptacle						

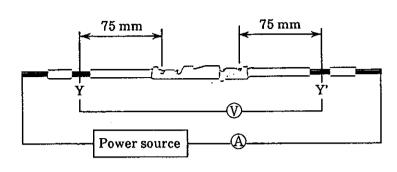


Fig. 2

Quality Assurance Provisions:

1. Sample Preparation

The test samples to be used for the tests shall be prepared by randomly selected from the current production, and terminated in accordance with 114-5025, Application Specification, Termination of Shur-Plug Short Contact.

No sample shall be reused, unless otherwise specified.

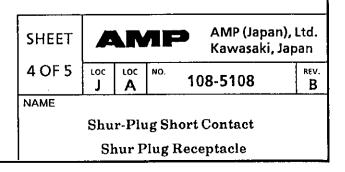
2. Test Conditions:

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

Temperature: 15~35°C

Relative Humidity: 45~75%

Atmospheric Pressure: 86.7~107 kPa (650~800 mmHg)



108-5108

NUMBER:

Custome Release

SECURITY CLASSIFICATION: The applicable product descriptions and part numbers are as shown in Appendix 1.

Appendix 1

Prod. P/N	Description
170229	Shur-Plug Short Contact
170012	Shur-Plug Receptacle

SHEET AMP (Japan), Ltd. Kawasaki, Japan

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NAME

Shur-Plug Short Contact
Shur Plug Receptacle