Revision "0"



### **Design Objective**

This product described in this document has not been fully tested to insure conformance to the requirements outlined below . Therefore , AMP do Brasil makes no representation or warranty , express or implied , that the product will comply with these requirements . Further , AMP do Brasil may change these requirements based on the results of additional testing and evaluation . Contact AMP Engineering for further details

### SCOPE 1.

#### 1.1 Content

This specification covers the performance, tests and quality requirements for the AMP Housing 8 position Junior Power Timer Receptacle for the mirror control.

### REFERENCE DRAWINGS/SPECIFICATIONS 2.

- Housing 8p Jr. Power Timer Rec. no. C-881647
- Jr. Power Timer Rec. (0,5-1,0mm<sup>2</sup>) no. C-927771 2.2
- Jr. Power Timer Rec. (1,5-2,5mm²) no. C-927768 2.3
- 2.4 Product Specification, Jr. Power Timer no. 108-18013

#### 3. **MATERIALS**

3.1-Contacts Pre-tinned bronze

Stainless steel for the spring

P.A. 6.6 3.2-Housing

# **RATINGS**

:-40°C to 80°C 4.1 Temperature

4.2 Maximum working current : 30A

4.3 Cable Range and Test Current :

Contact	Contact	Wire Range	Insulation	lation Test Current	
P/N	Description	(mm²)	Diameter (mm)	Wire Size (mm²)	Current (A)
927771	Jr. Power Timer Rec.	0,5 - 1,0	1,4 - 2,1	0,5	6
i				1,0	11
927768	Jr. Power Timer Rec.	1,5 - 2,5	2,2 - 3,0	1,5	14
1				2,5	20

Table 1

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### 5. PERFORMANCE AND TEST DESCRIPTION

The product is designed to meet the electrical, mechanical and environmental performance requirements specified below. All tests are performed at ambient environmental conditions, unless otherwise specified.

Test Items	Require	ments	Procedures	
Examination of	Meet requirements of		Visual, dimensional and functional per reference	
Product	reference drawings		drawings.	
Voltage Drop	3m V/A max.		Measure milivolt drop of contact test in mated	
	1		connectors, Figure 1. See table 1 for test current.	
Termination	3MΩ max.		Subject mated contacts assembled in housing to closed	
Resistance			circuit current of 100 mA max. at open circuit of 20mV	
	<u> </u>		max.	
Dielectric	No break-down or flash-		Test between adjacent contacts of unmated connectors.	
Withstanding over when 1KVAC is				
Voltage	applied for one	minute		
Insulation	200M $\Omega$ min.		Test between adjacent contacts of unmated connectors.	
Resistance	<b>!</b>		Test voltage 500V DC.	
Current Cycling	- Temperature Rise :		Subject contacts to 500 cycles at test current for 45	
	50°C max.	D:-	minutes "on" and 15 minutes "off".	
34-4	- Termination	Resistance		
Mating Force	160N max.		Measure force necessary to mate connector assembly at	
	10001	<u> </u>	rate of 25mm/min.	
Unmating Force	160N max.		Measure force necessary to unmated connector	
<u> </u>			assembly at rate of 25mm / min.	
	Contact 200N min.		Measure contact retention force, with secondary lock set	
Retention	Miss Cine	F	in effect, at rate of 25mm/min.  Determine crimp tensile at a rate of 25mm/min.	
Crimp Tensile	Wire Size mm <sup>2</sup>	Force	Determine crimp tensile at a rate of zonnimin.	
		N(min.) 60		
	0,5	100		
	1,0	150		
	1,5 2,5	200		
Thermal Shock	- No visual dar		Subject mated connectors to 5 cycles of :	
Thermal Shock	- Voltage drop		- 2h at + 125° C	
	Withstanding \		- 21 at + 123 C - 2h at +40° C 90-98% humidity	
	Insulation Res		- 2h at -40° C	
	according to requirements		- 211 at -40 0	
Salt Soray	- Voltage drop and		Subject mated connectors to 5% Na CI concentration for	
Salt Shay	Termination Resistance		96 hours , spec. 109-24 , test condition "A".	
	max. 200% of new contact		bo nodes , spec. 100-24 , test solidation 7.	
	value			
Vibration	- No discontinuities greater		Subject mated connectors to frequency range between	
	than 1 micro second.		10 to 500 Hz and back to 10 Hz with speed equal to one	
	- Voltage drop according		octave per minute. Subject to a simple harmonic motion	
	to requirements		to 25G, 2 hours in each of 3 mutually perpendicular	
	'		planes.	
			<u> </u>	

## 6. QUALITY ASSURANCE PROVISIONS

# 6.1 Qualification Testing

Connector housings and contacts shall be prepared in accordance with applicable Instruction Sheets. They shall be selected at random from current production. Each group of the sample contacts shall consist of more than 5 sets of connectors.

### 6.2 Requalification Testing

If changes significantly affecting form, fit or function are made to the product or to the manufacturing process, product assurance shall coordinate requalification testing consisting of all or part of the original testing sequence as determined by Product Engineering.

### 6.3 Acceptance

Acceptance is based on verification that the product meets the requirements of this specification. Failures attributed to equipment, test set-up or operator deficiencies shall not disqualify the product. When product failure occurs, corrective action shall be taken and samples resubmitted for qualification. Testing to confirm corrective action is required before resubmittal.

### **Quality Conformance Inspection** 6.4

The applicable AMP Quality Inspection Plans will specify the sampling acceptable quality level to be used. Dimensional and functional requirements shall be in accordance with the applicable product drawing and this specification.

### 7. **TEST CONDITIONS**

All tests shall be performed at the following environmental conditions, unless otherwise specified.

Temperature

: 15 - 35° C

Relative Humidity

: 45 - 75%

Atmospheric Pressure : 650 ~ 800mm HG

Revision Record						
Pavision Date	Description					

17-Aug-95

Release