# PRODUCT SPECIFICATION

## 1. SCOPE

### 1.1. Content

This specification covers the performance requirements for the PIDG\* and PLASTI-GRIP\* FASTON\* terminals. FASTON terminal is a receptacle of various sizes which offer a wide range of use in the appliance and automotive industries. Sizes are designated numerically to correspond to the width of the mating tab and include 250, 205, 187, and 110 series.

## 1.2. Qualification

When tests are performed on the subject product line, the procedures specified in AMP 109 series specifications shall be used. All inspections shall be performed using the applicable inspection plan and product drawing.

## 2. APPLICABLE DOCUMENTS

The following documents form a part of this specification to the extent specified herein. In the event of conflict between the requirements of this specification and the product drawing, the product drawing shall take precedence. In the event of conflict between the requirements of this specification and the referenced documents, this specification shall take precedence.

## 2.1. AMP Specifications

- A. 109-1: General Requirements
- B. 109 Series: Test Specifications as indicated in Figure 1. (Comply with MIL-STD-202, MIL-STD-1344 and EIA RS-364)
- C. 114-1002: Terminal, FASTON, PIDG, Application of
- D. 114-1003: Terminal, FASTON, PLASTI-GRIP, Application of

## 2.2. Commercial Standard

UL 486: Standard, Wire Connectors and Soldering Lugs

### 3. REQUIREMENTS

## 3.1. Design and Construction

Terminals shall be of the design, construction and physical dimensions specified on the applicable product drawing.

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#### 3.2. Materials

- Receptacle: Brass or phosphor bronze, pre tin Α.
- Sleeve, plastic: PVC or nylon
- Sleeve, metallic: Copper (PIDG FASTON only) C.

# Performance and Test Description

Terminals shall be designed to meet the electrical, mechanical and environmental performance requirements specified in Figure 1.

# Test Requirements and Procedures Summary

Test Description	Requirement	Procedure			
Examination of Product	Meets requirements of	Visual, dimensional and			
	product drawing and AMP	functional per applicable			
	Spec 114-1002 and	inspection plan.			
	114-1003,				
	ELECTRICAL				
Dielectric Withstanding	No breakdown or flash-	Test properly wired and			
Voltage	over when 2.2 kvac is	insulated terminal in			
	applied for 1 minute	number 12 lead shot;			
		UL 486, Para 9.6.			
MECHANICA L					
Crimp Tensile	Wire shall not become	Subject terminal to one			
	separated from terminal	minute, direct pull, at			
	when tested as specified	force specified; UL 486			
		Para 8.			
		Wire Size, Force,			
		AWG pounds			
		22 10			
		20 16			
		18 20			
		. 16 30			
·		14 60			
		12 70			
		10 80			

Figure 1

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# 3.5. Connector Tests and Sequences

	Test Group (a)		
Test or Examination	1	2	
	Test Sequence (b)		
Examination of Product	1		
Dielectric Withstanding Voltage		1	
Crimp Tensile		2	

- (a) See Para 4.1.A.
- (b) Numbers indicate sequence in which tests are performed.

Figure 2

## 4. QUALITY ASSURANCE PROVISIONS

# 4.1. Qualification Testing

# A. Sample Selection

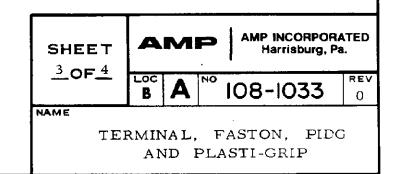
Terminals shall be prepared in accordance with applicable Instruction Sheets. They shall be selected at random from current production. Test group 1 shall consist of 1 terminal of each size, representative of the entire lot being tested. Test group 2 shall consist of 15 terminals for each wire size, terminal size and terminal type. All terminals shall be crimped to appropriate PN 103501 and 103502 tin plated test conductors in accordance with AMP Specification 114-1002 and 114-1003.

# B. Test Sequence

Qualification inspection shall be verified by testing samples as specified in Figure 2.

## C. Acceptance

- (1) Requirements put on test samples, as indicated in the requirements portion of Figure 1, exist as either the upper or lower statistical tolerance limit (95% confidence, 99% reliability). All samples tested in accordance with this specification shall meet the stated tolerance limit.
- (2) Failures attributed to equipment, test setup, or operator deficiencies shall not disqualify the product. When product failurε occurs, corrective action shall be taken and samples resubmitted for qualification



4.2. Quality Conformance Inspection

The applicable AMP inspection plan 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.

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AMP 2783-2 REV 7-78