
Access Floor Workstation Module

1. SCOPE

1.1. Content

This specification covers performance, tests and quality requirements for the AMP* access floor workstation module. This module is a 2 to 5 gang metallic outlet box designed to be flush mounted to an access floor panel and provide an interconnection point between access floor wiring systems and workstation equipment cables.

1.2. Qualification

When tests are performed on the subject product line, procedures specified in Figure 1 shall be used. All inspections shall be performed using the applicable inspection plan and product drawing.

1.3. Qualification Test Results

Successful qualification testing on the subject product line was completed on 01Mar99. The Qualification Test Report number for this testing is 501-463. This documentation is on file at and available from Global Engineering and Manufacturing Standards (GEMS).

2. APPLICABLE DOCUMENTS

The following documents form a part of this specification to the extent specified herein. Unless otherwise specified, the latest edition of the document applies. 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 Documents

- A. 109-1: General Requirements for Test Specifications
- B. 109 Series: Test Specifications as indicated in Figure 1
- C. Corporate Bulletin 401-76: Cross-reference between AMP Test Specifications and Government or Commercial Documents
- D. 114-49010: Application Specification
- E. 501-463: Qualification Test Report

2.2. Commercial Standards

- A. UL514A: Metallic Outlet Boxes
- B. UL514C: Nonmetallic Outlet Boxes, Flush-Device Boxes, and Covers
- C. CSA C22-2, No 18-M1987: Outlet Boxes, Conduit Boxes, and Fittings

3. REQUIREMENTS

3.1. Design and Construction

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

3.2. Materials

Materials used in the construction of this product shall be as specified on the applicable product drawing.

3.3. Ratings

- A. Voltage: 600 vac
- B. Temperature: -15 to 85°C

3.4. Performance and Test Description

Product is designed to meet the mechanical and environmental performance requirements specified in Figure 1. Unless otherwise specified, all tests shall be performed at ambient environmental conditions per AMP Specification 109-1.

3.5. Test Requirements and Procedures Summary

Test Description	Requirement	Procedure
Examination of product.	Meets requirements of product drawing and AMP Spec 114-49010.	Visual, dimensional and functional per applicable quality inspection plan.
MECHANICAL		
Durability.	See Note.	AMP Spec 109-27. Manually open and close the lid of the samples for 500 cycles at a maximum rate of 100 cycles per hour.
Mechanical strength and rigidity.	No more than 1/8 inch deflection or 1/32 inch permanent deformation at any point on the cover.	Mount an access floor workstation module into a holding fixture. Using a 3 inch diameter, 2 inch long steel cylinder, apply a preload of 50 pounds, then increase the load to 300 pounds and obtain maximum deflection.
ENVIRONMENTAL		
Corrosion resistance.	See Note.	AMP Spec 109-24. Subject samples to 5% salt solution for 96 hours.

NOTE

Shall meet visual requirements, show no physical damage, and meet requirements of additional tests as specified in the Product Qualification and Requalification Test Sequence shown in Figure 2.

Figure 1

3.6. Product Qualification and Requalification Test Sequence

Test or Examination	Test Group (a)
	1
	Test Sequence (b)
Examination of product	1,6
Durability	2
Mechanical strength and rigidity	3,5
Corrosion resistance	4

NOTE

- (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

Samples shall be prepared in accordance with applicable Instruction Sheets and shall be selected at random from current production. Test group shall each consist of 3 access floor workstation modules, assembled as received in the module kits. The AMPINNERGY* system, hardware, and data brackets provided in the kits need not be installed.

B. Test Sequence

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

4.2. Requalification Testing

If changes significantly affecting form, fit or function are made to the product or manufacturing process, product assurance shall coordinate requalification testing, consisting of all or part of the original testing sequence as determined by development/product, quality and reliability engineering.

4.3. Acceptance

Acceptance is based on verification that the product meets the requirements of Figure 1. Failures attributed to equipment, test setup or operator deficiencies shall not disqualify the product. If product failure occurs, corrective action shall be taken and samples resubmitted for qualification. Testing to confirm corrective action is required before resubmittal.

4.4. Quality Conformance Inspection

The applicable AMP quality inspection plan shall 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.