



Ring Terminals Product Specification

1. SCOPE

1.1. Content

This specification covers the electrical and mechanical performance requirements for Ring terminals

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 has been completed see UL certification report.

2. APPLICABLE DOCUMENTS AND FORMS

The following documents and forms constitute a part of this specification to the extent specified herein. Unless otherwise indicated, the latest edition of the document applies.

2.1. Industry Documents

- EIA-364: Electrical Connector/Socket Test Procedures Including Environmental Classifications
- UL486: UL Standard for wire connectors

3. REQUIREMENTS

3.1. Design and Construction

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

3.2. Test Requirements and Procedures Summary

Unless otherwise specified, all tests shall be performed at ambient environmental conditions.

TEST DESCRIPTION	REQUIREMENT		PROCEDURE
Examination of product	Meets requirements of product drawing.		EIA-364-18 Method B Visual, dimensional and functional as per applicable inspection plan and no physical damage.
MECHANICAL			
Crimp tensile strength	Wire section AWG (mm ²)	Minimum tensile force N(lbs)	UL486 Speed of tensile testing machine to be 25.4 mm/min. test until breakage or pull-out
	26 (0.13)	13.4 (3)	
	24(0.20)	22.3 (5)	
	22(0.32)	35.6 (8)	
	20(0.52)	57.9 (13)	
	18(0.82)	89.0 (20)	
	16(1.3)	134 (30)	
	14(2.1)	223 (50)	
	12(3.3)	312 (70)	

	10(5.3)	356 (80)	
	8(8.4)	401 (90)	
	6(13.3)	445 (100)	
	4(21.2)	623 (140)	
Static-heating test	Conductor size, AWG or kcmil (mm ²)	Assigned maximum ampere rating	Static-heating test current
	26 (0.13)	1	5.5
	24(0.20)	2	7
	22(0.32)	3	9
	20(0.52)	5	12
	18(0.82)	7	17
	16(1.31)	10	18
	14(2.08)	15	[20] 30
	12(3.31)	20	[25] 35
	10(5.26)	30	[40] 50
	8(8.37)	50	70
	6(13.3)	65	95
	4(21.2)	85	125

Figure 1



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.

3.3. Product Qualification and Requalification Test Sequence

TEST OR EXAMINATION	TEST GROUP	
	A	B
	TEST SEQUENCE	
Examination of product	1	1
Crimp tensile strength	2	
Static-heating test		2

Figure 2



NOTE

- (a) Samples shall be prepared in accordance with applicable instruction sheets. They shall be selected at random from current production.
- (b) Numbers indicate sequence in which tests are performed.