

The following commercial specification is originally adopted from the military document. Revision A includes all known accepted revisions, amendments, notices, and Department of Defense (DoD) engineering changes previously developed for this item. Revision B and forward include changes adopted by DoD and Industry to reflect technology and design evaluation.

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## **STRENGTH AND ELONGATION TESTING SPECTRA CORD; SPLICED SPECIMEN METHOD**

The Parachute Industry Association makes this document available for use by the Industry and Government organizations that wish to apply this specification to their products.

### **1. SCOPE**

1.1 Scope. This method is intended for determining the breaking strength and elongation of cordage that requires an eye splice to be tested.

### **2. TEST SPECIMEN**

2.1 The test specimen shall be a single length of cordage.

2.2 The specimen shall be eye spliced at both ends with a loop big enough to go over the holding apparatus. Eye splice shall be accomplished with either a tapered buried eye splice, as per FED-STD-191 TM 6015, or a blunt end cut at a 45 degree angle. The taper shall consist of cutting out every fifth pick in right and left strands for 16, 24 and 32 strand round braids and alternately fourth and fifth picks for 20 strand braid. For some types of cord a bartack may be used to secure the finger trap, but is not always necessary.

2.3 The specimen shall have a minimum of 6 inches of free cord (see FIGURE 2) between the ends of the finger traps.

### **3. NUMBER OF DETERMINATIONS**

3.1 Number of determinations. Unless otherwise specified in the procurement document, five specimens shall be tested for every sample unit required per sampling method identified in PIA-C-7515.

### **4. APPARATUS**

4.1 Apparatus. The apparatus for determining the breaking strength and elongation shall conform to requirements identified in Section 4 of FED-STD-191 TM 6015 with the following exception; the straining mechanism shall be such, that during the test, the movement of the pulling clamp shall be at a uniform rate of  $2-1/2 \pm 1/2$  inches per minute.

4.2 An ink marker with a very fine tip should be used to mark the specimen.