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Standard Specification for Jute Rove and Plied Yarn for Electrical and Packing Purposes¹

This standard is issued under the fixed designation D 681; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reapproval.

^{ε1} NOTE—Editorial changes were made throughout in December 1993.

1. Scope

1.1 This specification covers tolerances for jute single and plied rove and jute plied yarns, both treated and untreated products, designed for electrical and packing purposes.

1.2 Tolerances for the various properties and the test methods upon which the tolerances are based are included in the following sections:

Properties	Tolerances	Test Methods
Yarn or Rove Number	4	12
Breaking Load (Strength)—Single Strand	5	13
Twist	6, 7	14
Extractable Matter with Organic Solvents	8	15

NOTE 1—For tolerances and test methods for single-jute yarn, refer to Specification D 541, for methods for twine, refer to Specification D 1233.

1.3 The following hazards caveat pertains only to the test method portion, Sections 12, 13, 14, and 15, of this specification: *This standard does not purport to address all of the safety problems, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.* See 15.4.

2. Referenced Documents

2.1 ASTM Standards:

- D 76 Specification for Tensile Testing Machines for Textiles²
- D 123 Terminology Relating to Textiles²
- D 541 Specification for Single Jute Yarn²
- D 1233 Specification for Twine Made from Bast and Leaf Fibers²
- D 1423 Test Method for Twist in Yarns by the Direct-Counting Method²
- D 2256 Test Method for Tensile Properties of Yarns by the Single-Strand Method²
- D 2257 Test Method for Extractable Matter in Textiles²
- D 2258 Practice for Sampling Yarn for Testing²

2.2 Other Standard:

¹ This specification is under the jurisdiction of ASTM Committee D-13 on Textiles, and is the direct responsibility of Subcommittee D13.15 on Bast and Leaf Fibers and Their Products.

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² Annual Book of ASTM Standards, Vol 07.01.

U. S. Bureau of Alcohol, Tobacco and Firearms, Title 27,
Code of Federal Regulations, Part 212.19³

3. Terminology

3.1 Definitions:

3.1.1 *extractable matter, n*—nonfibrous material in or on a textile, not including water, which is removable by a specified solvent or solvents, as directed in a specified procedure.

3.1.1.1 *Discussion*—Nonfibrous material is usually oily, waxy, resinous, or polymeric in nature, but may also include other material such as protein, particularly if ethyl alcohol is used as, or in, the extracting solvent.

3.1.2 *jute*—soft fibers from the inner bark of the round pod jute (*Corchorus capsularis*), the long pod jute (*Corchorus olitorius*), and from the inner bark of other closely related plants, such as kenaf, sometimes referred to as Meshta (*Hibiscus cannabinus*).

3.1.3 *rove—in jute processing*, a continuous strand of spun-jute fiber having a spynole number of 50 or greater.

3.1.4 *spynole number—in jute*, a direct yarn-numbering system for jute rove and jute yarns in which the number of pounds per spynole, or 13 167-m (14 400-yd) length, is expressed as pounds per spynole.

3.1.4.1 *Discussion*—For example, a mass of 30 lb/14 400 yd (13 167 m) length is expressed as 30 lb/spynole.

3.1.5 *tolerances, n—in mathematics*, prescribed limits of variation for specified properties of a particular material based on observed values obtained by specified test methods and on samples that are representative of the material.

3.1.6 For definitions of other textile terms used in this standard, refer to Terminology D 123.

REQUIREMENTS

4. Yarn or Rove Number

4.1 The average yarn or rove number of the acceptance sampling lot shall be as agreed upon between the purchaser and the seller within the following permissible limitations, which are based on the number of test units and specimens specified in Sections 10 and 12.3:

Untreated yarn or rove	±5 %
Treated yarn or rove, including impregnant	±10 %

³ Available from Superintendent of Documents, Government Printing Office, Washington, DC 20234.