

[INCH-POUND]
A-A-1451A
July 28, 1995
SUPERSEDING
A-A-1451
May 11, 1981

COMMERCIAL ITEM DESCRIPTION

TWINE, FIBROUS

The General Services Administration has authorized the use of this commercial item description, for all federal agencies.

1. SCOPE

1.1 Scope. This commercial item description covers cotton wrapping twine intended for general purpose usage.

2. CLASSIFICATION

2.1 Classification. The twine shall be of the size specified (see Table I and 7.2).

3. SALIENT CHARACTERISTICS

3.1 Material and construction. The twine shall be fabricated from 100 percent natural color cotton yarn or cotton/polyester blended yarns of suitable staple and grade to meet the requirements of this commercial item description. When cotton/polyester blended yarns are used, the polyester content shall be not less than 50 percent and not more than 65 percent. The twine shall be "S" twist and shall have the physical properties in Table I.

3.2 Put-up. The twine shall be put-up in a minimum weight of 1, 2, or 5 pound (0.453kg, 0.906kg, or 2.265kg) ball or cone, as specified. Each ball or cone shall be continuous throughout with no loose ends. The twine shall be wound so that each turn and layer are free from entanglement, and balls shall unwind from the inside without collapsing. Each ball or cone shall contain not more than one knot per 1/2 pound (0.226kg) of twine. Each cone shall have a red colored trailer or marker approximately 20 feet (6.1m) long attached ahead of the inside end of the twine.

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| Beneficial comments, recommendations, additions, deletions, clarifications, etc. and any data which may improve this document should be sent to: General Services Administration, Engineering Group (7FXEE), 819 Taylor St., Fort Worth, TX 76102 |
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Table I

| Size No. (Plies) | Length Per Pound (Minimum Feet) | | Breaking Strength (Minimum Pounds) |
|---------------------|------------------------------------|----------------------------|---------------------------------------|
| 3 | 6000 | (1830m) | 5.5 (2.5kg) |
| 4 | 4500 | (1373m) | 8 (3.6kg) |
| 5 | 3600 | (1098m) | 10 (4.5kg) |
| 6 | 3000 | (915m) | 12 (5.4kg) |
| 8 | 2250 | (686m) | 16 (7.2kg) |
| 12 | 1500 | (458m) | 24 (10.9kg) |
| 16 | 1125 | (343m) | 32 (14.5kg) |
| 20 | 900 | (275m) | 40 (18.1kg) |
| 24 | 750 | (229m) | 48 (22.0kg) |
| A (2 Ply min.) | 1150 (Min.) | (351m) 1600 (Max.) (488m) | 40 (18.1kg) |
| B (2 Ply min.) | 2300 (Min.) | (702m) 3300 (Max.) (1007m) | 20.5 (9.3kg) |

3.3 Breaking strength. The twine breaking strength requirement shall be determined by FED-STD-191, Test Method 6016 (see Table 1).

3.4 Mildew-resistant. When mildew resistant twine is specified, the twine shall be treated with copper-8-quinolinolate. The color shall be that shade imparted by the treatment on natural-color twine. The inhibitor shall be applied from a solvent bath process so as to deposit within the twine a minimum of 0.13 to a maximum of 0.40 percent copper as metal from copper 8-quinolinolate. The contractor shall certify that any petroleum fractions, oils, or resins are of a non-oxidizing type and free of other copper compounds or naphthenic acids and its salts.

3.5 Workmanship. The twine shall have no defect that affects appearance or serviceability.

3.6 Measurement system. The values stated in inch-pound units are to be regarded as the standard. The metric values stated in parentheses are for information purposes only.

3.7 Metric products. Products manufactured to metric dimensions will be considered on an equal basis with those manufactured using inch-pound units, providing they fall within the tolerances specified and all other requirements of this document are met. If a product is manufactured to metric dimensions and those dimensions exceed the tolerances specified in the inch-pound units, a request should be made to the contracting officer to determine if the product is acceptable.

3.8 Commercial item. The use of the term "commercial item" in this document does not imply that any item or items offered are not required to conform with all requirements specified herein.

4. REGULATORY REQUIREMENTS.

4.1 Regulatory requirements. The offeror/contractor is encouraged to use recovered materials to the maximum extent practicable, in accordance with paragraph 23.403 of the Federal Acquisition Regulation (FAR).

5. QUALITY ASSURANCE PROVISIONS

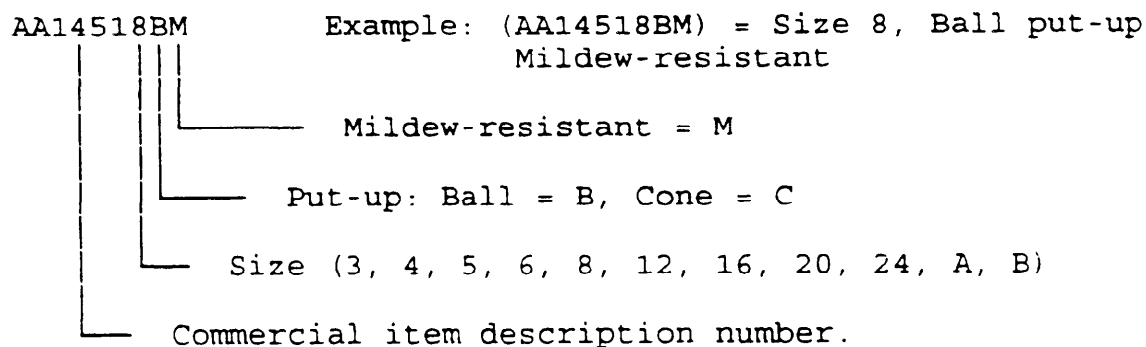
5.1 Contractor Certification. The contractor shall certify and maintain substantiating evidence that the product offered meets the salient characteristics of this Commercial Item Description, and that the product conforms to the producer's own drawings, specifications, standards, and quality assurance practices, and is the same product offered for sale in the commercial marketplace. The government reserves the right to require proof of such conformance prior to first delivery and thereafter as may be otherwise provided for under the provisions of the contract.

6. PACKAGING

6.1 Packaging. Preservation, packing, and marking shall be as specified in the contract or order.

7. NOTES

7.1 Part Identification Number (PIN). Twine conforming to this commercial item description shall be identified by a part number configuration consisting of identification of a portion of the CID number, size, put-up, and mildew resistant (if required). An example of the part number configuration is shown below. This part numbering system is intended for identification and cross-indexing of the item within the Federal cataloging system. The following part identification numbering procedure is for government purposes and does not constitute a requirement for the contractor.



7.2 Ordering data. Purchasers should select the preferred options permitted herein and include the following information in procurement documents (if applicable).

- a. Title, number and date of this commercial item description.
- b. Size.
- c. The preservation, packing, and marking desired.

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7.3 National Stock Numbers (NSNs): The following is a list of NSNs assigned which correspond to this CID. The list may not be indicative of all possible NSNs associated with the CID.

| NSN | Size | Put-up | Part Number |
|------------------|------|-----------------------------------|-------------|
| 4020-00-231-5849 | 3 | (2 pound cone) | AA1451-3C |
| 4020-00-257-5395 | 4 | (1 pound ball) | AA1451-4B |
| 4020-00-233-5980 | 5 | (1 pound ball) | AA1451-5B |
| 4020-00-233-5984 | 6 | (1 pound ball) | AA1451-6B |
| 4020-00-233-5987 | 8 | (1 pound ball) | AA1451-8B |
| 4020-00-231-5860 | 8 | (2 pound cone) | AA1451-8C |
| 4020-00-263-3482 | 8 | (1 pound ball) (Mildew-resistant) | AA1451-8BM |
| 4020-00-233-5990 | 12 | (1 pound ball) | AA1451-12B |
| 4020-00-291-5901 | 16 | (1 pound ball) | AA1451-16B |
| 4020-00-291-5902 | 20 | (1 pound ball) | AA1451-20B |
| 4020-00-257-5390 | 24 | (2 pound ball) | AA1451-24B |
| 4020-00-782-5573 | A | (5 pound cone) | AA1451-AC |
| 4020-00-782-5574 | B | (5 pound cone) | AA1451-BC |

MILITARY INTERESTS:

PREPARING ACTIVITY:
GSA-FSS

Custodian:

Air Force - 99

Review Activities:

Air Force - 82
Army - MD
DLA - IS
USMC - MC