

INCH-POUND

A-A-3048A
April 9, 2002
SUPERSEDING
A-A-3048
November 7, 1996

COMMERCIAL ITEM DESCRIPTION

TAPES, MEASURING (STEEL SURVEYORS')

The General Services Administration has authorized the use of this Commercial Item Description by all federal agencies.

1. SCOPE. This Commercial Item Description covers steel surveyors' tapes and reels used for general purpose distance measuring.

2. CLASSIFICATION. The tapes shall conform to the following types, classes, styles and sizes.

2.1 Type I, Complete assembly.

Class A - Black background with natural steel graduations.

Class B - Dull chromium plated background with black graduations.

Style 1 - Inch graduations.

Style 2 - Metric graduations.

Style 3 - Inch on one side, metric on the other.

Size 1 - 1/4-inch tape width.

Size 2 - 5/16 inch tape width.

Size 3 - 3/8-inch tape width.

2.2. Type II, Replacement tape.

Class A - Black background with natural steel graduations.

Class B - Dull chromium plated background with black graduations.

Style 1 - Inch graduations.

Style 2 - Metric graduations.

Style 3 - Inch graduations on one side, metric on the other.

Size 1 - 1/4-inch tape width.

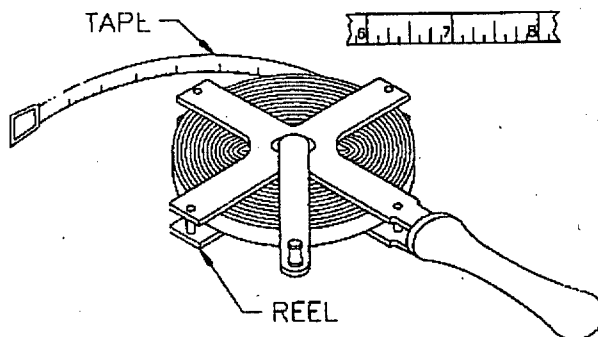
Size 2 - 5/16 inch tape width.

Size 3 - 3/8-inch tape width.

Beneficial comments, recommendations, additions, deletions, clarifications, etc. and any other data which may improve this document should be sent to: General Services Administration, Federal Supply Service, Hardware SuperStore, 6FEE, 1500 Bannister Rd., Bldg.# 6, Kansas City, Missouri 64131.

3. SALIENT CHARACTERISTICS.

3.1 Type-I. Design. Surveyor tape assemblies shall consist of a reel, with attached handle and a drum. The tape is held in place in the frame by a spindle to which, a winding arm is attached. It shall be possible to remove the tape from the drum without the use of special tools.



Tape measuring, steel surveyors'. (Straight handle.)

3.1.1 Reel. The reel frame shall be of a corrosion resistant metal built to withstand hard use. The reel shall consist of two sides held apart by spacers approximately 3/8 inch long, permanently secured in place.

3.1.2 Straight handle. When specified, the handle shall be of enameled or polished hardwood, or durable plastic and of ample size to insure a firm hold. The handle shall be fastened to the reel frame by an axial rod through the entire length of the handle.

3.1.3 D-Handle. When specified, the handle shall be of enameled or polished hardwood, or durable plastic and of ample size to insure a firm hold. The handle bracket shall be made of corrosion resistant metal and formed in the shape of a D. The handle assembly shall be riveted or welded to the frame.

The D-style handle shall be similar to the figure below.



3.1.4 Drum. The drum shall be constructed of corrosion resistant metal and have a minimum diameter of 1-3/8 inches.

3.1.5 Winding arm. The length of the winding arm shall be suitable to fit the length of the tape specified and shall have proper clearance when the tape is wound on the reel. The winding arm shall be capable of being folded over, and when folded over, shall engage the reel frame locking the tape. The winding arm shall be fitted with a large finger knob for speed and ease of winding.

3.1.6 Spindle. The spindle shall be constructed so that it will rotate freely in the reel frame when the winding arm is turned and shall cause the drum to rotate without coming in contact with the reel frame.

3.2 Tapes. The tape ribbon shall be of tempered spring steel. Unless otherwise specified, the tapes shall be graduated for reading left hand to right hand. Unless otherwise specified, the tape shall be furnished with two end loops and two leather thongs. Each leather thong shall be at least 20 inches in length. If specified, two removable finger rings shall be supplied in lieu of the end loops and leather thongs. The graduation accuracy shall be determined by direct comparison to a measured standard calibrated on a continuing basis and directly traceable to NIST standards.

3.2.1 Length. The overall length of the tape ribbon shall be specified in the ordering data.

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3.2.2 Graduations. Unless otherwise specified, graduation increments shall be one of the following and specified in the ordering data.

- a. Feet, tenths, and hundredths for the entire length.
- b. Feet, with first and last foot to tenths and hundredths.
- c. Feet, with first and last foot to tenths.
- d. Feet, with an extra foot before zero to tenths and hundredths, with the last foot to tenths and hundredths, and numbered from zero.
- e. Feet, with an extra foot before zero to tenths, and numbered from zero.
- f. Feet, with the foot preceding each 100-foot interval graduated in tenths and hundredths.
- g. Feet in eights for entire length.
- h. Metric graduations shall be in meters and decimeters, with the first and last decimeters to millimeters, and the balance of the first and last meter to centimeters.
- i. Metric graduations shall be in meters, decimeters, and centimeters, with an extra decimeter before zero to millimeters, and numbered from zero.

3.3 Type II. Replacement tapes. Replacement tapes shall conform to class, style and size as specified under Type I – Complete assembly.

3.4 Identification marking. The tool shall be marked with the manufacturer's name or identifying symbol and the state or country of manufacture, unless otherwise specified. All identification markings shall be engraved, etched, molded, or indented directly on the item's surface in such a manner that it remains clearly legible throughout extended use.

3.5 Workmanship. Details of workmanship shall be in accordance with the best commercial practice. Paint, coating, plating, and finish shall be smooth, adherent, continuous, and not stained or discolored. External surfaces shall be free of tool and gouge marks, nicks, or other surface imperfections. The item shall be free from manufacturing workmanship defects (e.g., sharp or rough external edges, corners, or surfaces) and material workmanship defects (e.g., pits, rips, fins, burrs, tears, nodules, cracks, blisters), which may adversely impact the item's serviceability, durability, safety, or appearance.

4. REGULATORY REQUIREMENTS.

4.1 Recovered materials. The supplier/manufacturer is encouraged to use recovered materials to the maximum extent practicable, in accordance with paragraph 23.403 of the Federal Acquisition Regulation (FAR).

4.2 Metric products. Products manufactured to metric dimensions will be considered on an equal basis with those manufactured using inch-pound units, provided they fall within the tolerances specified (using conversion tables contained in the latest revision of Federal Standard 376) 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.

5. PRODUCT CONFORMANCE.

5.1 Product conformance. The products provided shall meet the salient characteristics of this Commercial Item Description; conform to the supplier's own drawings, specifications, standards and quality assurance practices, the same product offered for sale in the commercial market. The government reserves the right to require proof of such conformance.

5.2 Responsibility for inspection. Unless otherwise specified, the supplier is responsible for the performance of all inspection requirements and may use any commercial facilities (including the supplier's own facilities) suitable for performance of the inspection requirements, unless disapproved by the Government. The Government reserves the right to perform any inspections deemed necessary to assure the item conforms to the specified requirements.

6. **PACKAGING.** Requirements of preservation, packing, packaging, and marking of packages shall be as specified in the contract or order.

7. **NOTES.** (This section contains information of a general or explanatory nature that is not mandatory.)

7.1 Addresses for obtaining copies of referenced documents:

Federal Acquisition Regulation (FAR): Government Printing Office, Superintendent of Documents, Washington, DC 20401-9371

GSA Specification Section (3FP-E), Suite 8100, 470 L'Enfant Plaza, SW, Washington, DC, 20407.

American Society for Testing and Materials (ASTM), 100 Barr Harbor Drive, West Conshohocken, PA, 19428-2959

National Institute of Standards and Technology (NIST), Public Inquiries Unit, 100 Bureau Drive, Washington DC 20899-2100

7.2 National Stock Numbers (NSNs). The following list of NSNs corresponds to the styles specified in this CID. This list may not be indicative of all possible NSNs associated with this CID.

<u>NSN</u>	<u>Type</u>	<u>Class</u>	<u>Style</u>	<u>Size</u>	<u>Smallest Graduation</u>	<u>Reads</u>	<u>Length</u>	<u>Handle type</u>
5210-00-221-1865	I	A	2	1/4	1 mm	Left to right	30M	Straight
5210-00-221-1862	I	A	2	1/4	1 mm	Left to right	50M	D-style
5210-00-221-1876	I	B	1	1/4	1/100, 1/10 FT.	Left to right	100 FT.	Straight
5210-00-243-2879	I	A	1	5/16	1/100, 1/10 FT.	Left to right	300 FT.	D-style
5210-00-554-7099	I	B	1	5/16	1/100, 1/10 FT.	Left to right	100 FT.	Straight
5210-00-832-9368	I	B	1	3/8	1/8 Inch	Left to right	200 FT.	Straight

7.3 Ordering data. Purchasers should select the preferred options permitted herein and should include the following information in procurement documents.

- (1) Title, number, and date of this Commercial Item Description.
- (2) The specific type, class, style, and size as specified in the Commercial Item Description.
- (3) Straight or D-style handle.
- (4) Blade length.
- (5) Graduation increments.
- (6) Preservation, packing, packaging, and marking of packages required.

7.4 Key words. Surveyors' measuring tape. (steel)

MILITARY INTERESTS:

NONE: DoD has no registered interest in revisions and amendments to this Commercial Description until further notice.

Preparing Activity:

GSA - FSS