| INCH-POUND |

A-A-1927D
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SUPERSEDING
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May 30, 1989
MIL-P-17802E
November 18, 1987

COMMERCIAL ITEM DESCRIPTION

PADLOCK

The General Services Administration has authorized the use of this commercial item description in preference to Military Specification MIL-P-17802.

1 ABSTRACT

1.1 Abstract This description covers key operated, dead bolt padlocks intended for low security use

2. CLASSIFICATION

2.1 Type and size The padlocks shall be classified as follows:

Type I - Hardened steel shackle with a case of CRS, carbon steel, or alloy steel in accordance with MS35647 and as specified herein (see notes).
Type II - Hardened steel shackle and brass or bronze case in accordance with MS35647 and as specified herein.
Type III - Brass or bronze shackle and case in accordance with MS21313 and as specified herein.

Size - Shall be according to case width as specified and in accordance with MS21313 or MS35647 as indicated below:

Size A - 1-1/2 inch (38.1 mm) ± 1/16 inch (1.588 mm).
Size B - 1-3/4 inch (44 45 mm) ± 1/16 inch (1.588 mm).
Size C - 2-3/4 inch (69.85 mm) ± 1/16 inch (1.588 mm).

|Beneficial comments (recommendations, additions, deletions) and any pertinent|
|data which may be of use in improving this document should be addressed to. |
|Commanding Officer (Code 156), Naval Construction Battalion Center, |
|621 Pleasant Valley Road, Port Hueneme, CA 93043-4300. |

FSC 5340

3 SALIENT CHARACTERISTICS

3.1 Description Padlocks supplied under this commercial item description shall conform with the requirements of this document and all specified requirements of ASTM F883 (Standard Performance Specification for Padlocks) Type PO 1 (grade and options as indicated herein) In the event that the requirements of this document should conflict with ASTM F883, this document shall take precedence Military Standards MS21313 and MS35647 are specified in which case, the requirements of this document and the cited Military Standard are applicable except that in the event that the requirements of this document should conflict with the cited Military Standard, the Military Standard shall take precedence Unless otherwise specified all padlocks shall be in accordance with ASTM F883 option A (captive key) This document shall be considered the procurement document for MS21313 and MS35647 in lieu of MIL-P-17802

3.2 Case. Shall be laminated or solid, at the supplier's option of materials indicated for the type padlock unless otherwise specified. If hardened steel case is specified, the case shall be uniformly case hardened steel with a hardness in the range of 40 to 50 on the Rockwell C scale (40-50 HRC) and shall meet the minimum desired grade requirements as specified for Forcing Tests, ASTM F883 (see 4 5)

3 3 Shackle The shackle shall be "U" shaped and may be either spring released or pull released The diameter of the shackle shall be as specified in MS21313 or MS35647 When case hardened steel shackles are specified, the shackle shall be uniformly case hardened and shall meet the minimum desired grade requirements as specified for Forcing Tests of ASTM F883 (see 4.5). The inside height shall be as specified and in accordance with Military Standards MS21313 or MS35647

3 4 Keying Each padlock shall be furnished with two keys Padlocks supplied in a group as a set shall be keyed alike, keyed individually, master keyed or grand master keyed, as specified. (Master keyed means that the master key shall open all padlocks in a group, but shall not open locks of another group within a set of groups Grand master keyed means that the grand master key shall open all padlocks within all groups making up the set) Three additional keys that will open each lock in the set shall be furnished with each set All keys shall be captive (unremovable) in the cylinder when unlocked unless otherwise specified When individually keyed padlocks are specified, no key shall operate more than 1 padlock per 50 padlocks (see 4 5). Unless otherwise specified, padlocks conforming with this commercial item description shall have a cylinder which will accept keys made from key blanks available on the national domestic retail market. The supplier shall identify domestic retail sources for such key blanks upon request.

3.5 Chain Padlocks shall be supplied with chains as specified in MS21313 or MS35647

3.6 Mechanism The padlock mechanism shall conform to the following requirements:

a Shall be of the key operated type The mechanism itself shall be brass in a brass shell inserted in the case, except when the case is of solid brass, the shell is not required

b Individually keyed padlocks shall have at least as many possible key changes as shown below

Size A - 4,000
Size B and C - 10,000

c The locking mechanism shall be as specified in MS21313 or MS35647 The dead bolt shall be one or two piece construction and shall not depend on spring action to hold the bolt in the locked position The locking mechanism shall not permit removal of the key in the unlocked position (see 4.5).

d. The cylinder plug of the padlock shall be securely fastened within the case to preclude forcible separation or opening of the padlock without mutilation (see 4.5 and Forcing Tests of ASTM F883)

3 7 Lubrication. Unless otherwise specified, working parts shall be lubricated as needed with a lubricant normally used for the intended purpose.

3 8 Corrosion and deterioration control The padlocks and chains when specified, shall be fabricated from compatible materials, inherently corrosion and deterioration resistant or treated to provide protection against the various forms of corrosion and deterioration that may be encountered in any of the applicable storage and use environments to which the padlocks may be exposed Dissimilar metals which react to produce galvanic corrosion shall be electrically insulated from one another with corrosion inhibiting sealant, chromate tape, varnish or other suitable means (see Option E of Corrosion Tests of ASTM F883)

3.9 Finish. Finish shall be in accordance with MS21313 or MS35647 unless otherwise specified. Prior to application of any coating, all exterior surfaces shall have a smooth finish Sharp exterior edges and burrs shall be removed. The case surface shall have a smooth or tumbled finish for laminated construction.

3.10 Part numbering. Padlocks shall be identified by the part number identified in MS21313 or MS35647 as applicable. This part numbering system is intended for identification and cross-indexing of the item within the Federal cataloging system Part numbers are not required to be placed on the product or container

EXAMPLE: MS35647-4 (This part number identifies a padlock conforming with MS35647 and with PIN number 4 of table I.)

3.11 Workmanship. The mechanisms of the padlocks shall function smoothly without the application of excessive force. No defects that affect appearance or serviceability shall be permitted.

4. QUALITY ASSURANCE

4.1 Quality assurance provisions. Unless otherwise specified in the contract or purchase order, the contractor is responsible for the performance of all inspection requirements as specified herein Except as otherwise specified in the contract or order, the contractor may use his own or any other facilities

suitable for the performance of the inspection requirements specified herein, unless disapproved by the Government The Government reserves the right to perform any of the inspections set forth in the specification where such inspections are deemed necessary to assure that supplies and services conform to prescribed requirements

4 2 Lot All padlocks of the same type, size, shackle, keying, and case offered for delivery at one time shall be considered a lot for purposes of inspection

4 3 Sampling for quality conformance examination A random sample of padlocks shall be selected from each lot in accordance with MIL-STD-105 (Sampling Procedures and Tables For Inspection By Attributes) inspection level S-2, AQL 6 5 expressed in terms of percent defective The sample unit shall be one padlock

4 4 Visual and dimensional examination. The sample padlocks shall be visually and dimensionally examined to verify compliance with this description Tolerance limits specified are absolute limits as defined in ASTM E29 (Standard Practice for Using Significant Digits in Test Data to Determine Conformance with Specifications)

4 5 Testing Testing of the sample padlocks shall be performed in accordance with all tests of ASTM F883 for Type PO 1 Option A (key operated padlocks) (captive key when unlocked) grade 2 (except for tensile strength) except that master, grand master, and keyed alike surreptitious entry testing shall be performed at grade 1 (except for tensile strength) requirements (individually keyed padlocks shall be tested at grade 2 (except for tensile strength) requirements). Padlocks shall resist a tensile force of 800 pound-force (lbf) (3559 Newton (N)) for size A, 2,000 lbf (8896 N) for sizes B and C. The hardened materials for type I case shall be checked for hardness in accordance with ASTM E18. The hardness test shall be conducted on a surface at a point 1/2 inch (12.7 mm) minimum from an end or edge. The key shall not be removable from the unlocked padlock Each lot of individually keyed padlocks shall be checked to verify that no key will operate more than 1 padlock per 50 padlocks A minimum of three keys shall be randomly selected from each lot and checked for this requirement Each master keyed group or grand master keyed set shall be checked to verify that only the master or grand master key will operate more than one padlock within the group or set as applicable

4 6 Certification of test requirements When specified in the contract or purchase order, a certificate of conformance may be furnished in lieu of actual testing on a lot by lot basis providing that:

a. Objective evidence dated not more than 2 years prior to the date of the start of the contract or date of the purchase order is available for review, that those tests specified in the industry standards referenced herein have been performed by a test facility acceptable to the Government and that the product tested conformed with stated requirements

b The product being offered has been manufactured by the same manufacturer, using the same material, processes and manufacturing techniques as the product tested

c The Government shall have the right to require additional testing (at the supplier's expense) if there is reason to believe that the product or products do not conform with stated requirements

4 7 Examination for preparation for delivery A random sample of unit, intermediate and shipping containers (as applicable) shall be selected from each lot and examined for conformance with the preservation, packaging, packing, labeling and marking required in the contract or order and in Section 5

5. PRESERVATION, PACKAGING, PACKING, LABELING, AND MARKING

5 1 Preservation, packaging, packing, labeling, and marking. The preservation, packaging, packing, labeling, and marking shall be as specified in the contract or order

6 NOTES

6 1 Applicable documents.

a The Commercial Item Certification Clause is not required when this commercial item description is used for procurement

b The issues or revisions of ASTM F883, ASTM E18, ASTM E29, and MIL-STD-105 in effect on the date of solicitation shall be used to determine compliance with stated requirements.

c ASTM standards are available from the American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103.

d Military Standards are available from the Standardization Documents Order Desk, Building 4D, 700 Robbins Avenue, Philadelphia, PA 19111-5094.

6.2 Ordering data. The purchaser should specify the following as applicable

a. Type, and MS21313 or MS35647 dash or PIN number.
b Keying (keyed individually, keyed alike, master keyed, or grand master keyed)
c. Finish if other than suppliers standard finish
d. Case if laminated or solid, case material, and if tempered.
e. Shackle material and if tempered.
f. Exceptions or changes in testing.
g. If certification is acceptable in lieu of lot-by-lot testing.
h If certification is not specified in the procurement document, complete lot-by-lot testing is required
i Preservation, packaging, packing, labeling, and marking required.

6 3 Regulatory requirements In accordance with section 23.403 of the Federal Acquisition Regulations, the Government's policy is to acquire items composed of the highest percentage of recovered materials practicable, consistent with maintaining a satisfactory level of competition without adversely affecting performance requirements or exposing suppliers' employees to undue hazards from the recovered materials The term "recovered materials"

means materials which have been collected or recovered from solid waste and reprocessed to become a source of raw materials as opposed to virgin raw materials None of the above shall be interpreted to mean that the use of used or rebuilt products are allowed under this commercial item description unless otherwise specified

MILITARY INTERESTS

Custodians

Army - ME
Navy - YD
Air Force - 99

Review Activities

Army - AR, AV
Navy - SH
DLA - IS

User Activities

Army - AT, CE
Navy - MC, SA

CIVIL AGENCY COORDINATING ACTIVITY

GSA - FSS (7FXEE)

PREPARING ACTIVITY

Navy - YD

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