

METRIC

A-A-59846A

July 12, 2012

SUPERSEDING

A-A-59846

November 18, 2009

COMMERCIAL ITEM DESCRIPTION

ANCHOR, ROCK, SPRING LOADED CAMMING DEVICE

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

1. SCOPE. This commercial item description (CID) covers the requirements for spring loaded camming devices (SLCDs), which are used for protecting climbers on steep rock routes by placing the SLCDs into cracks in the rock.

2. CLASSIFICATION. The SLCDs will be furnished in the following types.

2.1 Types

Type I - Single stem, single axle, small

Type II - Double stem, single axle, medium

Type III - Double stem, single axle, large

2.2 Sizing

Type I: Sizes: 00, .0, 1, 2, 3, 4, 5, 6

Type II: Sizes: 00, .0, 1, 2, 3, 4, 5, 6, 7

Type III: Sizes: 1, 2, 3

Comments, suggestions, or questions on this document should be addressed to: Attn: DLA Troop Support, 700 Robbins Avenue, Philadelphia, PA 19111-5096. Since contact information can change, you may want to verify the currency of this address information using Acquisition Streamlining and Standardization Information System (ASSIST) online database at https://assist.dla.mil/ .
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3. SALIENT CHARACTERISTICS. The camming device shall be as light-weight as possible while meeting the standards in this description. The camming device shall be an active, spring-loaded device. The camming device shall be capable of being placed as a passive protection device. The wire stem shall provide a stable platform for the thumb to assist in the pulling of the trigger. The trigger shall be easily operated and provide an even pull throughout the entire range. The Type I SLCD single-stem head shall attach to one axle which the four grooved cams will rotate around independently. The Type II SLCD dual-stem head shall attach to one axle which the four grooved cams will rotate around independently. TYPE III SLCD dual-stem head shall attach to one axle which the four grooved cams will rotate around independently. The size shall be printed on the cam and easily read. The camming device design shall provide ease of use with typical combat gloves and be as lightweight as possible, while meeting the standards in this description and shall conform to the size and physical characteristics of Table I, Table II and Table III.

TABLE I. Physical characteristics, Type I

Size	Expansion Range (+/- 2)mm		Min. breaking Strength, Kn	Weight, (+/-) 10 grams
	min, mm	max, mm		
00	8.5	12	5	65
.0	10	15	5	65
1	12.5	18	8	70
2	15.5	22.5	10	70
3	18.5	26.5	10	80
4	23.5	33.5	10	90
5	28.0	39.5	10	100
6	32.5	48.0	10	110

TABLE II. Physical characteristics, Type II

Size	Expansion Range (+/- 2)mm		Min. breaking Strength, kN	Weight, (+/-) 10 grams
	min, mm	max, mm		
00	8.5	12	5	65
.0	10	15	5	65
1	12.5	18	8	70
2	15.5	22.5	10	70
3	18.5	26.5	10	80
4	23.5	33.5	10	90
5	28.0	39.5	10	100
6	32.5	48.0	10	110
7	40.0	57.5	10	130

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TABLE III. Physical characteristics, Type III

Size	Expansion Range (+/- 2)mm		Min. breaking	Weight,
	min, mm	max, mm	Strength, kN	(+/-) 10 grams
1	41.9	63.5	12	184
2	52.5	91.4	12	255
3	66.5	118.6	12	311

3.1 Webbing runner (all Types). The webbing runner shall be 101 (\pm 13) millimeters long and affixed to the coated stem, forming a loop sized to fit all types of typical carabiners in accordance with A-A-59836.

3.2 Color. Each size of each type may have a sling of a different color that matches the webbing runner loop. The rest of the camming device shall be provided in a low reflectance, matte finish and provide low contrast with typical use terrain unless otherwise specified in the solicitation or contract order (see 7.2).

3.3 Materials.

3.3.1 Basic material The cam shaped portion of the SLCD shall be 6061-T6 or 7075 aluminum.

3.3.2 Wired stem material. The wired stem portion shall be either a galvanized steel or stainless steel.

3.3.3 Trigger cable material. The trigger cables shall be made of steel.

3.3.4 Trigger material. The trigger shall be made of plastic.

3.3.5 Stem protector material. The stem protector shall be made of plastic.

3.3.6 Sling material. The sling shall be made of nylon.

3.4 Tests The SLCDs shall meet Union Internationale des Associations d'Alpinisme (UIAA) Standard 125.

3.5 Workmanship. The finished SLCDs shall conform to the quality of product established by this document. The occurrence of defects shall not exceed the contractors own quality assurance standards and the quality assurance standards defined in the technical data in the solicitation and/or contract.

3.6 Service life. The SLCDs shall have no unexpected material or component failures during a continuous one-year cycle, and shall have no unexpected material or component failures during periodic use over a five-year period.

3.7 Labels, barcoding and instruction slip. If applicable, all labeling, barcoding and instruction slip requirements shall be as specified in the solicitation or contract (see 7.2).

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4. **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).

4.1 Recycled, recovered, or environmentally preferable materials. Recycled, recovered, or environmentally preferable materials should be used to the maximum extent possible, provided that the material meets or exceeds the operational and maintenance requirements and promotes economically advantageous life cycle costs.

5. **PRODUCT CONFORMANCE PROVISIONS.**

5.1 Product conformance. The products provided shall meet the salient characteristics of this commercial item description, conform to the producer's own drawings, specifications, standards, and quality assurance practices, and be the same product offered for sale in the commercial marketplace. The Government reserves the right to require proof of such conformance.

5.2 Visual examination. Each SLCD shall be examined for the following defects as listed in Table IV.

TABLE IV. End item examination

Examine	Defect Description
Finish	Not smooth and adherent
	Not low reflectance, matte finish
	Does not provide low contrast with typical use terrain
Construction	Not free of burrs, rough spots, slivers, flat areas or projections
	Any component missing or not specified type
	Any component fractured, slit, punctured, dented, bowed, malformed or damaged
	Marking etched or indented, contains rough or sharp edges
	Any component loose
	Incorrect, illegible, omitted or misplaced.
	Omitted, missing information or illegible
Trigger Cable	Not attached at trigger or lobe
Label, barcoding and instruction slip (if applicable)	Incorrect, illegible, omitted or misplaced.

5.3 Acceptance criteria. Acceptance criteria shall be as specified in the contract or purchase order (see 7.2).

6. **PACKAGING.**

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6.1 Preservation, packing and marking. The preservation, packing and marking are as specified in the contract or order (see 7.2).

7. NOTES.

7.1 Sources of documents.

7.1.1 Government documents. Copies of Government documents are available online at <https://assist.dla.mil/quicksearch/> or from the Standardization Documents Order Desk, Building 4D, 700 Robbins Avenue, Philadelphia, PA 19111-5094.

DRAWINGS

U.S. ARMY NATICK SOLDIER CENTER

3-3-0118 Anchor, Rock, Camming Device, Type I
3-3-0119 Anchor, Rock, Camming Device, Type II

(Copies of drawings are available from the Department of the Army, Natick Soldier Research Development and Engineering Center, Kansas Street, Natick, MA 01760 ATTN: RDNS-WPW-C)

7.1.2 Federal Acquisition Regulations are available online at <http://acquisition.gov/far/index.html> or by contacting the Superintendent of Documents at 202-512-1800.

7.1.3 Non-Government documents. Non-Government standards and other publications are normally available from the organizations that prepare or distribute the documents. These documents may be available in or through libraries or other informational services.

INTERNATIONAL MOUNTAINEERING AND CLIMBING FEDERATION UNION INTERNATIONALE DES ASSOCIATIONS D'ALPINISME (UIAA)

UIAA Safety Standard 125 Mountaineering and Climbing Equipment, Frictional Anchors

(Copies are available online at <http://www.theuiaa.org> or from the Union Internationale Des Associations D'Alpinisme (UIAA) Monbijoustrasse 61 Postfach CH-3000 Bern 23 Switzerland

7.2 Ordering data. The contract or order should specify the following:

- a. Title, number, and date of this Commercial Item Description
- b. Type and size required (see 2.1).
- c. When required, labeling, barcoding and instruction slip (see 3.7).
- d. Acceptance criteria (see 5.3).
- e. Packaging (see 6.1).

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7.3 Key words.

Climbing
Protection

MILITARY INTERESTS:

CIVIL AGENCY COORDINATING ACTIVITY:
GSA-FSS

Custodian:

Army - GL
Navy - MC

PREPARING ACTIVITY:

DLA-CT

Project Number: 8465-2012-024

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