

INCH-POUND**A-A-50041D****February 24, 2000****SUPERSEDING****A-A-50041C****February 21, 1990**

COMMERCIAL ITEM DESCRIPTION

SNAP LINK, MOUNTAIN PITON, LOCKING AND NONLOCKING

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

1. **SCOPE.** This commercial item description covers the requirement for locking and nonlocking snap links used in rappelling and erecting fixed rope installation for movement of troops and materials.

2. **CLASSIFICATION.** The snap links shall be of the following types:

- Type I - Steel, zinc plated, locking (1460 kg)
- Type II - Steel, zinc plated, locking (3600 kg)
- Type III - Aluminum nonlocking (1800 kg)

3. **SALIENT CHARACTERISTICS.**

3.1 **Type I snap link.** The type I snap link shall be zinc plated steel. The snap link shall be oval shaped. The snap link gate shall be threaded and fitted with a nut. The nut may be screwed into place over the opening between the gate and the snap link body to prevent inadvertent opening of the gate during use. The gate and the locking nut shall operate easily without jamming in either the open or closed positions. The hinge pin attaching the gate to the body shall be tightly peened or pressed into the body of the snap link. The color of the snap link shall be that of natural zinc plated steel and its maximum weight shall be 150 grams (see figure I).

3.2 **Type II snap link.** The type II snap link shall be zinc plated steel. The snap link shall be "D" shaped. The snap link gate shall be threaded and fitted with a nut. The nut may be screwed into place over the opening between the gate and the snap link body to

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prevent inadvertent opening of the gate during use. The gate and the locking nut shall operate easily without jamming in either the open or closed positions. The hinge pin attaching the gate to the body shall be tightly peened or pressed into the body of the snap link. The color of the snap link shall be that of natural zinc plated steel and its maximum weight shall be 224 grams (see figure I).

3.3 Type III snap link. The type III snap link shall be aluminum construction. The snap link shall be “D” shaped. The hinge pin attaching the gate to the body shall be tightly peened or pressed into the body of the snap link. The gate shall operate easily without jamming in either direction. The color of the snap link shall be that of natural aluminum, and its maximum weight shall be 98 grams (see figure I).

3.4 Proof loading.

3.4.1 Type I. The type I snap link shall be capable of withstanding a 910 kg proof test load in the longitudinal direction with the gate in the closed position and the locking nut in the open position without any deformation. The snap link shall also be capable of withstanding a 1460 kg proof test load in the longitudinal direction with the nut in the locked position without the snap link breaking or cracking.

3.4.1.1 Proof load test, Type I. Any desired operating speed may be used until a load of 590 kg is reached. After reaching that point the speed shall be maintained at not more than 4 inches per minute or less than 1 inch per minute until a load of 910 kg is reached. This load shall be maintained for not less than 10 nor more than 15 seconds. Any deformation of the snap link shall constitute failure of this test. Deformation shall be determined by operating the gate, if the gate functions properly there is no deformation of the snap link. Snap links with the gate closed and the locking nut in the closed position shall be tested in accordance with the same procedure except that the final load shall be 1460 kg. The snap links shall withstand the 1460 kg load without breaking or cracking. Snap links subjected to this test shall be discarded. Snap links shall be tested for operation of the locking nut and gate by screwing the nut from the open position to the locked position and then back to the open position. The gate shall then be moved from the closed position to the completely open position and then released. Any jamming of the nut or gate shall be considered a failure. Any test failure shall be cause for rejection of the lot.

3.4.2 Type II. The type II snap link shall be capable of withstanding a 2300 kg proof test load in the longitudinal direction with the gate in the closed position and the locking nut in the open position without any deformation. The snap link shall also be capable of withstanding a 3600 kg proof test load in the longitudinal direction with the nut in the locked position without the snap link breaking or cracking.

3.4.2.1 Proof load test, Type II. Any desired operating speed may be used until a load of 1600 kg is reached. After reaching that point the speed shall be maintained at not more than 4 inches per minute or less than 1 inch per minute until a load of 2300 kg is reached. This load shall be maintained for not less than 10 nor more than 15 seconds. Any

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deformation of the snap link shall constitute failure of this test. Deformation shall be determined by operating the gate, if the gate functions properly there is no deformation of the snap link. Snap links with the gate closed and the locking nut in the closed position shall be tested in accordance with the same procedure except that the final load shall be 3600 kg. The snap links shall withstand the 3600 kg load without breaking or cracking. Snap links subjected to this test shall be discarded. Snap links shall be tested for operation of the locking nut and gate by screwing the nut from the open position to the locked position and then back to the open position. The gate shall then be moved from the closed position to the completely open position and then released. Any jamming of the nut or gate shall be considered a failure. Any test failure shall be cause for rejection of the lot.

3.4.3 Type III. The type III nonlocking snap link shall be capable of withstanding an 1800 kg proof test load in the longitudinal direction and the gate in the closed position without the snap link breaking or cracking.

3.4.3.1 Proof load test, Type III. Any desired operating speed may be used until a load of 1170 kg is reached. After reaching that point the speed shall be maintained at not more than 4 inches per minute or less than 1 inch per minute until a load of 1800 kg is reached. This load shall be maintained for not less than 10 nor more than 15 seconds. The snap links shall withstand the 1800 kg load without breaking or cracking. Snap links subjected to this test shall be discarded. Snap links shall be tested for operation of the gate by moving the gate from the closed position to the completely open position and then released. Any jamming of the nut or gate shall be considered a failure. Any test failure shall be cause for rejection of the lot.

3.5 Identification marking. All snap links shall be stamped with the manufacturer's identification symbol, and its maximum rated test strength.

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).

5. **QUALITY ASSURANCE 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 to be the same product offered for sale in the commercial market. The government reserves the right to require proof of such conformance.

5.2 Visual examination. Each item shall be examined for the defects listed below.

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Defects. Finish not smooth and adherent; not free of burrs, rough spots, sharp edges, slivers, flat areas or projections; any component missing or not specified type; any component type not functioning as specified; any component fractured, split, dented, bowed, malformed, damaged or loose; markings not as specified.

5.3 Acceptance criteria. Acceptance criteria shall be as specified in the contract or purchase order.

6. PACKAGING.

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

7. NOTES

7.1 Source of Government documents. Copies of military and Federal documents are available from:

Standardization Documents Order Desk
Bldg. 4D
700 Robbins Avenue
Philadelphia, PA 19111-5094

7.2 Products known to meet this CID. Below is only a sampling of known suppliers and not an all-inclusive list.

1. Adventure Tech, Inc
4124 N. Burns Road
Spokane, WA 99216
2. Climb High
1861 Shelburne Road
Shelburne, Vermont 05482
3. Omega Pacific
11919 W. Sprague Ave. Bldg. H-1
Airway Heights, WA 99001

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MILITARY INTERESTS:

Custodians

Army – GL

Navy – NU

CIVIL AGENCY COORDINATING ACTIVITY:

GSA-FSS

PREPARING ACTIVITY:

DLA-CT

Project Number

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Type I; Snap Link, Locking



Type II; Snap Link, Locking



Type III; Snap Link, Aluminum, Nonlocking

Figure I.