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INCH-POUND
A-A-59884
6 June 2011

# COMMERCIAL ITEM DESCRIPTION

E-Track Ratchet Strap, Cargo, Tie Down Assembly

The General Services Administration has authorized the use of this Commercial Item Description (CID) for all federal agencies.

1. SCOPE.

The purpose of this CID is the procurement of E-track fitting, ratchet straps (straps) for use on Basic Expeditionary Airfield Resources (BEAR) Bicon and Tricon equipment.

2. SALIENT CHARACTERISTICS.

2.1 Strap description. The strap is 16' long and between 1" and 2" wide. The strap has E-track fittings on both ends and a ratcheting mechanism for tensioning the strap. The strap has a minimum static breaking strength of 3000 lbs and a working strength of at least 1000 pounds.

2.2 Design and construction. The strap shall be designed and constructed so that no parts will work loose in service. They shall be built to withstand the strains, jars, vibrations, and other conditions incident to shipping, storage, installation, and service. They shall be weatherproof and designed to prevent the intrusion of water and sand into critical operating components.

2.2.1 Materials, protective coatings, and finish.

2.2.1.1 Protective coatings. Materials that deteriorate when exposed to sunlight, weather, or operational conditions normally encountered during the service life of the item shall not be used or shall have means of protection against such deterioration that does not prevent compliance with the performance requirements specified herein. Protective coatings that chip, crack, or scale with age or extremes of climatic conditions or when exposed to heat shall not be used. The strap

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shall have corrosion protection on the E-track fittings and ratchet components that are equivalent to or greater than ASTM B633-07 Type ii SC 2 and Type iii SC 2, respectively.

2.2.2 Identification marking. An identification marking in accordance with MIL-STD-130 shall be securely attached to the strap in a readily accessible location. The identification marking shall contain the following information: nomenclature, part number, serial number, date of manufacture, manufacturer's name, Commercial and Government Entity (CAGE) code, date of warranty expiration, and National Stock Number (NSN).

2.2.3 Safety.

2.2.3.1 Component protection. All space in which work is performed during operation, service, and maintenance shall be free of hazardous protrusions, sharp edges, or other features which may cause injury to personnel.

2.2.4 Human engineering. The strap shall be designed in accordance with MIL-STD-1472 for ease of operation, inspection, and maintenance, including the use of arctic mittens and Mission-Oriented Protective Posture (MOPP) Level 4 Chemical Warfare Gear.

2.2.5 Fastening devices. All screws, bolts, nuts, pins, and other fastening devices shall be properly designed, manufactured, and installed with adequate means of preventing loss of torque or adjustment. Cotter pins, lock washers, or nylon patches shall not be used for this purpose, except for the attachment of trim items or as provided in commercial components. Tapped threads shall have a minimum thread engagement in accordance with Table I.

TABLE I. Minimum thread engagement.

| Material | Minimum Thread Engagement |
|---|---|
| Steel | 1.0 times the nominal fastener diameter |
| Cast iron, brass, or bronze | 1.5 times the nominal fastener diameter |
| Aluminum, zinc, or plastic | 2.0 times the nominal fastener diameter |

2.2.6 Welders and welding. Welding procedures shall be in accordance with a nationally recognized welding code. The surface parts to be welded shall be free from rust, scale, paint, grease, and other foreign matter. Welds shall be of sufficient size and shape to develop the full strength of the welded parts. Welds shall transmit stress without cracking or permanent distortion when the parts connected by the welds are subjected to test, proof, and service loadings.

2.3 Environmental conditions.

2.3.1 Operating temperature range. The strap shall be capable of operating in ambient temperatures ranging from -20° F to 140° F.

2.3.2 Storage temperature range. The strap shall be capable of being stored in ambient temperatures ranging from -40° F to 160° F.

2.4 Strap. The strap shall incorporate a "stop" to prevent it from threading loose from the E-track fittings. The width of the strap shall fall between 1" and 2".

2.4.1 Length. The overall un-laden length of the strap assembly shall be 16' ± .5"

2.4.2 Strap static load strength. The strap shall maintain a minimum static breaking strength of 3000 lbs for at least 4 years. The maximum extension of the strap shall not exceed 10" at 3000 lbs of static load.

2.4.2 Strap working load strength. The strap shall maintain a minimum working load of 1000 lbs for at least 4 years.

2.5 E-track fittings. The strap shall have spring-actuated E-track fittings secured to both ends. The maximum width of the E-track fittings shall be 2.85 ± .02".

2.6 Ratchet. The strap shall have a locking ratchet handle to tension the strap.

2.7 Workmanship. The strap, including all parts and accessories, shall be constructed and finished in a thoroughly workmanlike manner. Workmanship objectives shall include freedom from blemishes, defects, burrs and sharp corners and edges; accuracy of dimensions, surface finish, and radii of fillets; thoroughness of welding, painting, and riveting; marking of parts and assemblies; and proper alignment of parts and tightness of assembly fasteners.

2.7.1 Bolted connections. Bolt holes shall be accurately punched or drilled and shall be deburred. Threaded fasteners shall be tight and shall not work loose during testing or service usage.

2.7.2 Riveted connections. Rivet holes shall be accurately punched or drilled and shall be deburred. Rivets shall be driven with pressure tools and shall completely fill the holes. Rivet heads shall be full, neatly made, concentric with the rivet holes, and in full contact with the surface of the component.

2.7.3 Gear and lever assemblies. Gear and lever assemblies shall be properly aligned and meshed and shall be operable without interference, tight spots, loose spots, or other irregularities. Where required for accurate adjustment, gear assemblies shall be free of excessive backlash.

2.7.4 Cleaning. The strap shall be thoroughly cleaned. Loose, spattered, or excess solder; welding slag; stray bolts, nuts, and washers; rust; metal particles; pipe compound; and other foreign matter shall be removed during and after final assembly.

3. REGULATORY REQUIREMENTS.

3.1 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. 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).

3.2 Green Procurement Program. Green Procurement Program (GPP) is a mandatory federal acquisition program that focuses on the purchase and use of environmentally preferable products and services. GPP requirements apply to all acquisitions using appropriated funds, including services and new requirements. FAR 23.404(b) applies and states the GPP requires 100% of EPA designated product purchase that are included in the Comprehensive Procurement Guidelines list that contains recovered materials, unless the item cannot be acquired: a) competitively within a reasonable timeframe; b) meet appropriate performance standards, or c) at a reasonable price. The prime contractor is responsible for ensuring that all subcontractors comply with this requirement.

4. PRODUCT CONFORMANCE PROVISIONS

4.1 The products provided shall meet the salient characteristics of this CID, 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. PACKAGING.

5.1 Preservation, Packing, and Marking. Preservation, packing, and marking shall be as specified in the contract or order.

6. NOTES

6.1 Source of documents.

6.1.1 Department of Defense and Federal documents. Department of Defense and Federal documents may be obtained at https://assist.daps.dla.mil or from the Document Automation and Production Service, Bldg 4D (DPM-DODSSP), 700 Robbins Avenue, Philadelphia PA 19111-5094.

6.1.2 FAR. FAR may be obtained from the Superintendent of Documents, P.O. Box 371954, Pittsburgh PA 15250-7954. Electronic copies of the FAR may be obtained from https://www.acquisition.gov/far/.

6.1.3 ASTM documents. Application for copies should be addressed to ASTM International, 100 Barr Harbor Drive, PO Box C700, West Conshohocken PA 19428-2959. Electronic copies of ASTM standards may be obtained from http://www.astm.org

6.2 Ordering data. Acquisition documents should specify the following:

a. Title, number, and date of this CID.

b. Product Conformance provisions.

c. Packaging requirements

6.3 Key words.

Bicon equipment
Tricon equipment
Weatherproof

MILITARY INTEREST

Custodian:
Air Force - 84
Navy - AS

Preparing Activity:
Air Force - 84

Agent:
Air Force - 99

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