

INCH-POUNDS

A-A-59143
2 December 1997
SUPERCEDING
MIL-T-43238C
7 August 1984

COMMERCIAL ITEM DESCRIPTION

TABLE, SHADOW, PARACHUTE CANOPY INSPECTION

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

1. SCOPE

1.1 Scope. This commercial item description covers a table for inspection of parachute canopies.

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: U.S. Army Natick Research, Development, and Engineering Center, Natick, MA 01760-5014 by using the Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

AMSC N/A

FSC 1670

A-A-59143

2. SALIENT CHARACTERISTICS.

2.1 Physical description. The table shall be rectangular and measure 8 feet \pm 1/8 inch in length and 3 feet \pm 1/16 inch in width. The top surface of the tabletop shall be smooth with no burrs or sharp edges that will cause parachute material to snag. The table shall have a leg structure that shall lock in a secure perpendicular (open) position when in use, and a secure horizontal (closed) position for storage. Each leg structure shall have a rigid anchor point centered on the structure to secure parachute inspection hardware. The height of the table shall be capable of being adjusted and leveled from a minimum of 33 3/4 inches to a maximum of 35 inches. The table, with the legs in a closed position, shall measure not more than 13 inches from the top surface to the bottom most surface. The tabletop shall provide sufficient strength to resist cracking and deformation when a 275 pound load (G-11 parachute) is applied. The total weight of the table shall not exceed 220 pounds.

2.2 Wiring. All wiring shall be compatible with 115/120 volt, 60 Hz, AC power source and the current rating shall be 15 amperes (A). Wiring shall not be visible in the light area and shall be contained to prevent injury or be a source of ignition. A grounded on/off switch and a 7 inch \pm 1/2 inch flexible cable with grounded male plug shall be at one end of the table and a single receptacle located at the opposite end of the table (same side). The table shall be physically and electrically safe to operate.

2.3 Lighting. The table shall have an easily accessible light source, that will provide sufficient lumens to produce an average of 488 \pm 10% lumens per square foot when uniformly diffused. The tabletop shall be translucent to provide a diffused luminous transmittance of 60% \pm 6%.

2.4 Joining tables. Tables shall be capable of being joined together lengthwise electrically and in a locked position (maximum of four tables) to form a continuous flat, smooth, level surface and meet the lighting requirements by engaging the male plug of one table into the receptacle of an adjacent table. Method of locking shall be compatible with existing tables.

A-A-59143

2.5 Marking. A proportionately sized information plate showing the circuit wiring diagram and legend, "USE 115/120 VOLTS - 60 Hz AC ONLY - CURRENT RATING 3.7 AMPS - USE NO MORE THAN 4 TABLES IN SERIES" shall be permanently attached and located on the same surface as, and adjacent to, the switch. An additional proportionately sized identification plate depicting the manufacturer's name, CAGE code, and year of manufacture, shall be located adjacent to the first plate. The information and identification plates may be combined into one plate.

2.6 Environmental requirements. The tables shall be functional in ambient temperatures from 60°F to 125°F.

3. REGULATORY REQUIREMENTS.

3.1 Contractor recovered materials. 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. QUALITY ASSURANCE PROVISIONS

4.1 Product conformance. The product provided shall meet the salient characteristics of this commercial item description, conform to the producers own drawings, specifications, standards, and quality assurance practices, and it may be a modified product that may be offered to the commercial market. The government reserves the right to require proof of such conformance.

4.1.1 First article inspection. When a first article inspection is required it shall be examined for all verifications listed.

4.1.2 Verification methods. Verification methods can include visual examination, measurements, testing, certification and similarity to previously-approved or previously-qualified designs. The manufacturer may also propose test methods, techniques, or equipment, including the application of statistical process control, or cost-effective sampling procedures to verify performance. The contract may specify alternatives that replace verifications required by this commercial item description.

A-A-59143

4.2 Physical verification and tests. Verify, by measuring, that the dimensions of the table are 8 feet $\pm 1/8$ inch in length and 3 feet $\pm 1/16$ inch in width. Visually and by feel, verify that the top surface is smooth with no burrs or sharp edges. Ensure that the legs lock in a perpendicular position when in use and a locked horizontal position for storage. Inspect for a rigid anchor point centered on each leg structure. With the legs in a closed locked position, verify by measuring that the depth of the table is not greater than 13 inches. Verify that the height of the table is capable of being adjusted and leveled from a minimum of 33 3/4 inches to a maximum of 35 inches. Verify the durability of the tabletop to resist cracking and deformation by suspending a packed G-11 cargo parachute 6 inches above the center of the table. Release and free-fall the parachute, impacting the table. Repeat the procedure 10 times. At the completion of this verification, set the G-11 parachute in the center of the table for 2 hours. Verify that there is no permanent deformation of the tabletop when the parachute is removed. Verify by weighing, that the table does not exceed 220 pounds.

4.3 Wiring. Verify that each table contains a 15 ampere on/off switch and a 7 inch $\pm 1/2$ inch flexible cable with grounded male plug at one end of the table, and a single grounded 15 ampere female receptacle located on the opposite end of the table (same side). Energize the table. Verify that the wiring of the table is 115/120 volts, 60 Hz AC and the current rating is 15 amperes. Visually inspect that the wiring is not visible in the light source area and is contained to prevent injury or act as a source of ignition.

4.4 Lighting. With light source on, operate the table for 200 hours. At the end of this period, verify that the light source will produce an average of $488 \pm 10\%$ lumens per square foot. With the light source on, verify that the tabletop provides a diffused luminous transmittance of $60\% \pm 6\%$.

4.5 Joining tables. With four tables joined electrically and with locking mechanism engaged, verify there is a continuous flat smooth surface. Verify the tables cannot be separated without disengaging the locking mechanism. Table height adjustment may be necessary to achieve a flat smooth surface.

A-A-59143

4.6 Marking. Visually inspect to verify that the required information and identification marking is complete, accurate, and located where specified.(see 2.5)

4.7 Environmental requirements certification. The contractor shall certify that the inspection table is functional at ambient temperatures of 60°F to 125°F.

5. PACKAGING

5.1 Packaging. For acquisition purposes, the packaging requirements shall be as specified in the contract or order.

6. NOTES

6.1 Ordering data. Purchasers should include the following information in the procurement document (if applicable):

- a. Title, number and date of this CID.
- b. Preservation, packing, and marking required (see 2.5 and 5.1).

6.2 Technical data. This item has been produced satisfactorily using specification MIL-T-43238C and the associated drawings.

MILITARY INTERESTS:

Custodians:

Army - GL
Navy - AS
Air Force - 99

Review activities:

Army - AV
Navy - MC
Air Force - 82

CIVIL AGENCY COORDINATING ACTIVITY:

GSA

PREPARING ACTIVITY:

Army - GL

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