

[INCH-POUND]
A-A-59284
17 March 1999
SUPERSEDING
W-S-570B
19 October 1990

COMMERCIAL ITEM DESCRIPTION

SOLDERING IRON, ELECTRIC

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 electrically powered hand soldering irons which are intended to be used for manual soldering operations.
2. CLASSIFICATION. The soldering iron shall be of the following types, styles, and sizes. The type and size to be furnished shall be as specified (see 7.2(b)).

Type I - Wattage controlled

Style A - Fixed wattage output

Style B - Variable wattage output

Size 25 - 25 watts

Size 30 - 30 watts

Size 35 - 35 watts

Size 40 - 40 watts

Size 50 - 50 watts

Size 60 - 60 watts

Size 80 - 80 watts

Size 100 - 100 watts

Size 200 - 200 watts

Size 300 - 300 watts

Size 400 - 400 watts

Size 500 - 500 watts

Size 600 - 600 watts

Size 700 - 700 watts

Type II - Temperature controlled

Style C - Fixed temperature output

Style D - Variable temperature output

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| Beneficial comments, recommendations, additions, deletions, clarifications, etc. and any other data which may improve this document should be sent to: Defense Supply Center Richmond, ATTN: DSCR-VCA, 8000 Jefferson Davis Highway, Richmond, VA 23297-5610. |
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AMSC N/A

FSC 3439

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

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3. SALIENT CHARACTERISTICS

3.1 General requirements. Unless otherwise specified (see 7.2(c)), the soldering iron shall operate from a 120-volt, single-phase, 60-hertz circuit. The leakage voltage measured from the soldering iron tip to the ground shall not exceed 0.002 volts RMS. Resistance between the tip of a hot soldering iron and the ground shall not exceed 5 ohms. Unless otherwise specified (see 7.2(d)), a stand assembly and tip wiping sponge shall be provided. The soldering iron shall be equipped with a 4 1/2 to 8-foot flexible 3-conductor power cord. The power cord ground plug shall meet the requirements of figure 5-15 of National Electrical Manufacturers Association (NEMA) WD-6.

3.2 Type I, wattage controlled output. The type I soldering iron shall supply a controlled wattage to the tip. The wattage shall correspond to the required size. The style A soldering iron shall supply a fixed wattage to the tip. The style B soldering iron shall have a dial or slide switch for adjusting wattage output. Unless otherwise specified (see 7.2(e)), the wattage supplied to the tip shall be variable from at least 30 to 100 percent of soldering iron wattage capacity.

3.3 Type II, temperature controlled output. The type II soldering iron shall regulate the tip at a constant temperature to within ± 10 degrees Fahrenheit of the setpoint. Unless otherwise specified (see 7.2(f)), the type II style C soldering iron shall have a setpoint of not less than 600 degrees Fahrenheit. The type II style D soldering iron shall allow the tip temperature to be controlled over a continuous range. Unless otherwise specified (see 7.2(g)), the soldering iron shall allow the tip temperature setpoint to be controlled over a temperature range from at least 350 to 850 degrees Fahrenheit.

3.4 Soldering tip. Unless otherwise specified (see 7.2(h)), the tip shall be iron plated. If required, the tip shall additionally be nickel or chrome plated as specified (see 7.2(i)). The shank diameter shall be 1/8, 3/16, 1/4, 5/16, 3/8, 1/2, 5/8, 7/8, or 1 inch as specified (see 7.2(j)). The tip shape shall be a pencil, pyramid, chisel, screwdriver, conical or conical bevel as specified (see 7.2(k)).

3.5 Performance. The soldering iron shall meet the performance requirements of Underwriter's Laboratories (UL) 499.

4. REGULATORY REQUIREMENTS

4.1 Recovered materials. The offeror/contractor is encouraged to use recovered materials to the maximum extent practicable, in accordance with paragraph 23.403 or 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 be the same product offered for sale in the commercial market. The Government reserves the right to require proof of such conformance.

5.1.1 Verification of conformance. Suitable verification of conformance to the performance requirements of UL499 shall be either the UL label or certification of such conformance by an accredited testing laboratory satisfactory to the Government.

5.2 Warranty. Unless otherwise specified (see 7.2(l)), the manufacturer's standard commercial warranty, terms, and conditions shall apply.

6. PACKAGING. Preservation, packing, and marking shall be as specified (7.2(m)) in the contract or purchase order.

7. NOTES

7.1 Sources of documents.

7.1.1 Government documents. Copies of paragraph 24.403 of the FAR may be obtained from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.

7.1.2 Nongovernment documents. Copies of industry standards referenced in this CID may be obtained from the following addresses:

National Electrical Manufacturers Association (NEMA)

NEMA WD-6 Wiring Devices - Dimensional Requirements

Applications for copies should be sent to the National Electrical Manufacturers Association, 1300 North 17th Street, Suite 1847, Rosslyn, VA 22209.

Underwriters Laboratories (UL)

UL 499 Standard for Safety for Electric Heating Appliances

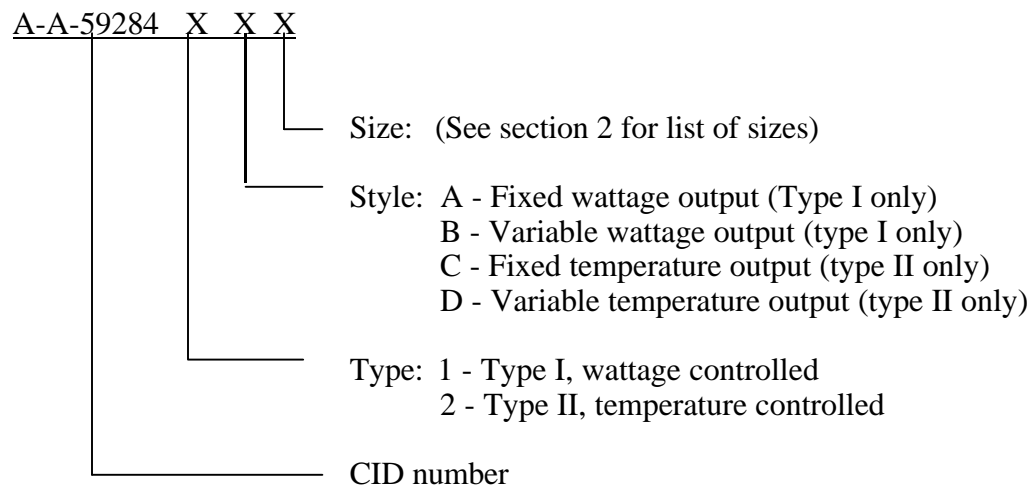
Applications for copies should be sent to the Underwriters Laboratories, Inc., 333 Pfingsten Rd., Northbrook, Illinois 60062-2096.

7.2 Ordering data. Acquisition documents must specify the following:

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- a. Title, number, and date of this document.
- b. Type, style, and size of soldering iron required (see 2).
- c. Electric power requirements, if different (see 3.1).
- d. Stand assembly and sponge, if different (see 3.1).
- e. Soldering iron wattage, if different (see 3.2).
- f. Soldering iron setpoint, if different (see 3.3).
- g. Soldering iron tip temperature setpoint range, if different (see 3.3).
- h. Iron plating, if different (see 3.4).
- i. Additional plating, as specified (see 3.4).
- j. Tip shank size, as specified (see 3.4).
- k. Tip shape, as specified (see 3.4).
- l. Warranty, if different (see 5.2)
- m. Packaging requirements, as specified (see 6).

7.3 Part identification number (PIN). The following part identification numbering procedure is for Government purposes and does not constitute a requirement for the contractor.



MILITARY INTERESTS:

Custodians

Army - AR

Air Force - 99

Navy - SH

Reviewers

Air Force - 84

Navy - MC, YD

PREPARING ACTIVITY:

DLA - GS

(Project 3439-0884)