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[INCH-POUND]
A-A-60006
January 5, 1998
SUPERSEDING
W-L-661E
March 31, 1994

COMMERCIAL ITEM DESCRIPTION

LIGHT, EXTENSION, ELECTRICAL

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 portable electric incandescent lamp extension lights, complete with connector plug, cord, lampholder, guard-reflector assemblies, and handle, for light duty and general use. These lights are not for use in hazardous areas. Lamps are not included with the lights.

2. CLASSIFICATION. Extension lights covered by this CID shall be of the following types, classes, and lengths, as specified (see 7.2):

Type I - General use with No. 16 American Wire Gage (AWG) (1.5 millimetre (mm)) type SO, SEO, or STO cord and with switch.
Type II - General use weatherproof with No. 16 AWG (1.5 mm) type SO, SEO, or STO cord, without switch and without receptacle outlet.
Type III - Light duty use, with No. 18 AWG (1.2 mm) type SJO, SJEO, or SJTO cord and with switch.
Type IV - General use with No. 16 AWG (1.5 mm) type SO, SEO, or STO cord and with switch and receptacle outlet.

Class 1 - With metallic guard-reflector assembly.
Class 2 - With insulated guard-reflector assembly.

Length - 25 feet (7 620 mm).
Length - 50 feet (15 240 mm).
Length - 100 feet (30 480 mm).

Beneficial comments, recommendations, additions, deletions, clarifications, etc. and any data which may improve this document should be sent to: Commanding Officer (Code 15E2), Naval Construction Battalion Center, 1000 23rd Avenue, Port Hueneme, CA 93043-4301, by using the Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

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3. SALIENT CHARACTERISTICS.

3.1 Standard commercial product. The electrical extension light shall, as a minimum, be in accordance with the requirements of this commercial item description and shall be the manufacturer's standard commercial product. Additional or better features which are not specifically prohibited by this commercial item description but which are a part of the manufacturer's standard commercial product, shall be included in the electrical extension light being furnished. A standard commercial product is a product which has been sold or is being currently offered for sale on the commercial market through advertisements or manufacturer's catalogs, or brochures, and represents the latest production model.

3.2 Design. Each extension light shall consist of a connector plug, cord, and handle equipped with lampholder and guard-reflector. In addition, the handles for type I, III, and IV extension lights shall be equipped with a snap switch, protected by a channel guard for switch protection. Type IV extension lights shall be equipped with a receptacle outlet. The extension lights shall be designed for 115-volt (V) operation but shall be capable of functioning at a maximum of 250V. Each extension light shall be capable of withstanding a 5-foot (15 240 mm) drop impact and shall be capable of resisting entrance of any moisture.

3.3 Construction. Construction shall be in accordance with UL 298 and as specified herein. The construction shall be free from any characteristics or defects that may render the extension lights unsuitable or inefficient for the intended use. All injection molded components (e.g. male plug end) shall be free from flash, blisters, deformities, cracks, sharp fins, sharp edges, lumps, and imbedded foreign matter. The extension lights shall be capable of withstanding the strains, jars, vibration, and other conditions incident to shipping, storage, and service. All parts subject to wear shall be readily accessible for adjustment or repair.

3.3.1 Fastening device. All screws, pins, bolts, and similar parts shall be installed with adequate means for preventing loss of tightness and adjustment. Parts subject to removal shall not be swaged, peened, or staked.

3.3.2 Electrical connections. Electrical connections shall conform to standard industry practice.

3.3.3 Interchangeability. All units of the same classification furnished with similar options under a specific contract shall be identical to the extent necessary to ensure interchangeability of component parts, assemblies, accessories, and spare parts.

3.3.4 Warning label. When specified (see 7.2), a warning label shall be permanently affixed in a conspicuous location on the extension light. The legend on the warning label, in upper case letters shall be not less than 0.125-inch (3.2 mm) in height, and shall be as follows:

"NOT AUTHORIZED FOR SHIPBOARD USE"

3.4 Fire and casualty hazards. The bidder shall submit to the purchasing agency proof that the material proposed for supply under this CID conforms to the standards of UL 20, 62, 298, 496,

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and 498, as applicable. The label or listing of UL will be accepted as evidence that the material conforms to this requirement. In lieu of the label or listing, the bidder may submit independent proof satisfactory to the purchasing agency that the material complies with the above requirements, including method of test.

3.5 Connector plugs. Unless otherwise specified (see 7.2), the connector plug shall be general purpose 15 amperes, 125 V, two-pole, three-wire, grounding type conforming to the requirements of UL 498. Type II lights shall have plug molded to the cord. Other lights covered by this CID shall be furnished with either plug molded to cord or plug clamped to cord.

3.6 Cord. The cord shall conform to UL 62. The lengths of the exposed cord between the plug and the handle assembly shall be not less than the length specified in 2. The cord for types I, II, and IV lights shall be types SO, SEO, SJO, or STO, No. 16 AWG (1.5 mm), 3 conductor. The cord for type III light shall be types SJO, SJEO, or SJTO, No. 18 AWG (1.2 mm), 3 conductor. Insulating compounds and jacketing compounds shall be in conformance with manufacturer's standard practice.

3.7 Handle assembly. The handle assembly shall house a lampholder. The switch shall be protected by a channel guard, providing switch protection when specified (see 7.2), and a receptacle outlet, when specified (see 7.2). The guard reflector assembly shall be provided with a suitable groove or other means of support. The receptacle provided for in type IV extension light shall be a two-pole three-wire grounding type conforming to UL 498. Handles shall be constructed to allow for without damage, or the use of special tools, the removal and replacement of switch and receptacle, and when provided sockets and all other parts. The handle shall be made of suitable material that is resistant to impact, abrasion, heat, and oil. The handle shall be of a size and shape to permit full one-hand grasping. All ferrous metal nuts, bolts, washers, and clamps used in assembly of handle shall be equal to chromium or zinc-plated. Cord, fittings, and lampholder openings in type II light handle shall be weatherproof with cord and lamp in place.

3.8 Lampholder. The switch, when provided, and the lampholder shall conform to UL 20 and UL 496, as applicable. The lampholder shall be equal to rolled brass or aluminum and shall accommodate a medium screw-base lamp. The type II lampholder shall be weatherproof and the splice for the socket shall be taped in such a manner as to provide equivalent to that on each conductor.

3.9 Lamp guard-reflector assembly. The extension light guard shall accommodate a 100-watt lamp.

3.9.1 Metallic guard-reflector assembly, class 1. The class 1 guard-reflector assembly shall consist of a metallic guard, with hook, and a metallic reflector. All metal parts of the guard-reflector assembly shall be plated in accordance with manufacturer's standard practice. Enclosed within the guard-reflector assembly, there shall be a simple and continuous ground circuit between the guard-reflector assembly and the grounding contact of the plug using a green lead.

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3.9.1.1 Guard with hook. The guard shall be of the closed-end type. There shall be not less than six guard wires spaced circumferentially around the axis of the handle assembly. There shall be not less than two guard wires around the circumference of the cage. The cage shall have a clamping band and secured using bolts and nuts. The guard shall provide ease for lamp replacement without the use of special tools.

3.9.1.2 Reflector, class 1. The reflector shall conform to the inside shape of the guard, and shall cover between 145 and 180 degrees of arc of the inside circumference of the guard.

3.9.2 Insulated guard-reflector assembly, class 2. The class 2 reflector assembly shall consist of an insulated guard and hook of suitable insulating material and an insulation-backed metallic reflector.

3.9.2.1 Guard and hook. The guard shall conform to 3.9.1.1. In addition, all metal parts of the guard and hook shall be covered with a permanent coating of an insulating material. If the hook rotates, provisions shall be made to prevent chafing of the hook coating in turning. The guard and hook may be constructed completely of a suitable insulating material.

3.9.2.2 Reflector, class 2. The reflector shall conform to 3.9.1.2 except all metal surfaces shall be covered with a permanent coating of an insulating material. The reflecting surface shall be either uncoated by the insulating material, or insulating material shall be coated to provide a reflectance factor of not less than 50 percent.

3.10 Grounding. The extension light grounding shall conform to UL 298 section 15.

3.11 Identification data. The extension light shall show the manufacturer's name or trademark permanently inscribed on or attached thereto.

4. REGULATORY REQUIREMENTS.

4.1 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). Unless otherwise specified herein, all equipment, material, and articles incorporated in the work covered by this commercial item description are to be new and fabricated using materials produced from recovered materials to the maximum extent possible without jeopardizing the intended use. The term "recovered materials" means materials which have been collected or recovered from solid waste and reprocessed to become a source of raw materials, as opposed to virgin raw materials. Unless otherwise specified, none of the above shall be interpreted to mean that the use of used or rebuilt products are allowed under this commercial item description.

4.2 Metric products. Products manufactured to metric dimensions will be considered on an equal basis with those manufactured using inch-pound units, provided they fall within specified tolerances using conversion tables contained in the latest version of ASTM SI-10 (IEEE/ASTM SI-10), and all other requirements of this commercial item description including form, fit and function are met. If a product is manufactured to metric dimensions and these

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dimensions exceed the tolerances specified in the inch-pound units, a request should be made to the contracting officer to determine if the product is acceptable. The contracting officer has the option of accepting or rejecting the product.

5. REGULATORY REQUIREMENTS.

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.

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

7. NOTES.

7.1 Source of documents.

7.1.1 The Federal Acquisition Regulation (FAR) is available from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.

7.1.2 ASTM Standard is available from the Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959.

7.1.3 IEEE Standard is available from the Institute of Electrical and Electronics Engineers (IEEE), IEEE Service Center, 445 Hoes Lane, P.O. Box 1331, Piscataway, NJ 08855-1331.

7.1.4 Underwriters Laboratories, Inc. (UL) standards are available from Underwriters Laboratories, Inc., 333 Pfingsten Road, Northbrook, IL 60062-2096.

7.2 Ordering data. Acquisition documents should specify the following:

a. Title, number, and date of this CID.
b. Type, class, and length required (see 1.2).
c. When warning label is required (see 3.3.4).
d. When connector plugs shall be other than as specified (see 3.5).
e. When channel guard is required (see 3.7).
f. When receptacle is required (see 3.7).

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. The PINs to be used for items acquired to this description are created as follows:

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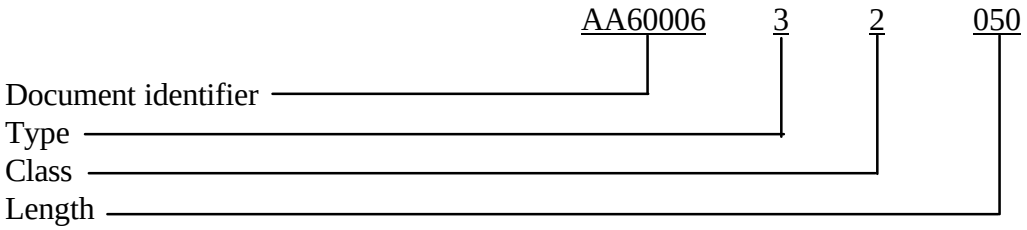

7.3.1 The above PIN is for type III, class 2, length 50-foot (15 240 mm) electrical extension light (see table I).

TABLE I. Designator to type, class and length ratings.

Type	Designator
I	1
II	2
III	3
IV	4
Class	**Designator**
1	1
2	2
Length	**Designator**
25 feet (7 620 mm)	025
50 feet (15 240 mm)	050
100 feet (30 480 mm)	100

7.4 Classification cross reference. Classifications used in this CID (see 2.) are identical to those found in the superseded Federal Specification W-L-661D.

7.5 Supersession data. This CID replaces Federal Specification W-L-661D, dated 4 February 1985.

7.6 Metric units. The values stated in either inch-pound units or SI units are to be regarded separately as standard. Within the text, the SI units are shown in brackets. The values stated in each system are not exact equivalents; therefore, each system should be used independently of the other. Combining values from the two systems may result in non-conformance with the standard.

7.7 Subject term (key word) listing.

Portable incandescent - lamp
Trouble lamp

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MILITARY INTERESTS:

Custodians:
Army - MI
Navy - YD1
Air Force - 99

Review Activities:
Army - GL
Navy - MC
Air Force - 82
DLA - GS

CIVIL AGENCY COORDINATING ACTIVITY:

GSA-FSS

PREPARING ACTIVITY:

Navy - YD1

(Project 6230-1066)

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STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL

INSTRUCTIONS

1. The preparing activity must complete blocks 1, 2, 3, and 8. In block 1, both the document number and revision letter should be given.
2. The submitter of this form must complete blocks 4, 5, 6, and 7.
3. The preparing activity must provide a reply within 30 days from receipt of the form.

NOTE: This form may not be used to request copies of documents, nor to request waivers, or clarification of requirements on current contracts. Comments submitted on this form do not constitute or imply authorization to waive any portion of the referenced document(s) or to amend contractual requirements.

I RECOMMEND A CHANGE:	**1. DOCUMENT NUMBER** A-A-60006	**2. DOCUMENT DATE (YYMMDD)** 980105

3. DOCUMENT TITLE

LIGHT, EXTENSION, ELECTRICAL

4. NATURE OF CHANGE *(Identify paragraph number and include proposed rewrite, if possible. Attach extra sheets as needed.)*

5. REASON FOR RECOMMENDATION

6. SUBMITTER

a. NAME *(Last, First, Middle Initial)*	b. ORGANIZATION	
c. ADDRESS *(Include Zip Code)*	d. TELEPHONE (Include Area Code) (1) Commercial (2) AUTOVON *(if applicable)*	**7.DATE SUBMITTED** (YYMMDD)

8. PREPARING ACTIVITY

a. NAME DWAYNE MILLS	b. TELEPHONE *Include Area Code)* (1) Commercial 805-982-8784 (2) AUTOVON 551-8784
c. ADDRESS *(Include Zip Code)* COMMANDING OFFICER, NCBC CODE 15E2M 1000 23RD AVENUE PORT HUENEME, CA 93043-4301	**IF YOU DO NOT RECEIVE A REPLY WITHIN 45 DAYS, CONTACT:** DEFENSE QUALITY AND STANDARDIZATION OFFICE 5203 Leesburg Pike, Suite 1403, Falls Church, VA 22401-3466 Telephone (703) 756-2340 AUTOVON 289-2340