

INCH-POUND

MIL-DTL-3661/61D

1 April 2025

SUPERSEDING

MIL-L-3661/61C

25 October 1978

AMENDMENT 1

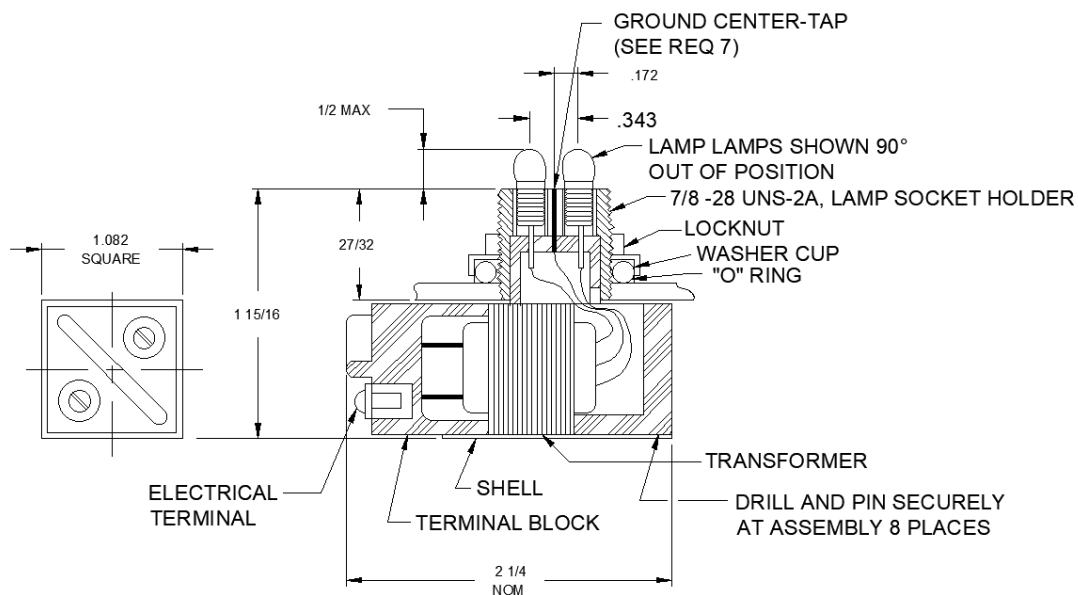
15 September 2003

DETAIL SPECIFICATION SHEET

LAMPHOLDER, LIGHTS, INDICATOR (HOUSING), STYLE LH94

This specification is approved for use by all
Departments and Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist of this specification sheet and
MIL-DTL-3661.



Inches	mm	Inches	mm
0.172	4.37	7/8	22.23
0.343	8.71	1.082	27.48
1/2	12.70	1-15/16	49.21
27/32	21.43	2-1/4	57.15

FIGURE 1. Style LH94 Housing.

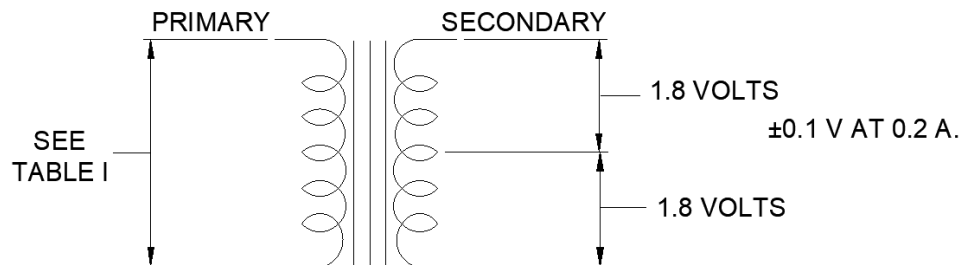
AMSC N/A

DISTRIBUTION STATEMENT A: Approved for public release; Distribution is unlimited.

FSC 6210

NOTES:

1. All dimensions are in inches. Unless otherwise specified, tolerances are $\pm 1/64$ inch (0.38 mm) for fractions and ± 0.015 inch (0.38 mm) for decimals.
2. Metric equivalents (to the nearest 0.01 mm) are given for general information only and are based upon 1 inch = 25.4 mm

FIGURE 2. Wiring diagram.TABLE I. Style LH94 Housing.

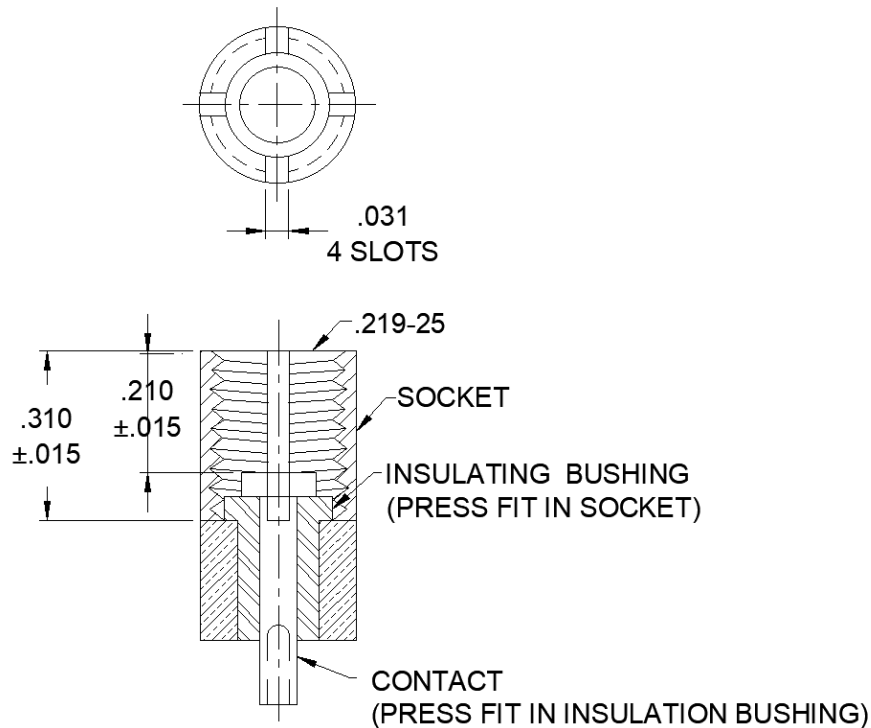
Type Designation ^{1/}	Voltage	Lamp accommodation ^{2/}
LH94/1	12	^{3/} 1769
LH94/2	26	
LH94/3	117	
LH94/4	450	

^{1/} The style LH94 indicator light housing shall mate with any of the lenses shown on MIL-DTL-3661/52 through MIL-DTL-3661/59. Lenses are not furnished.

^{2/} Lamps are not furnished.

^{3/} Industry number 1769.

Supersession data: Types LH94/3 and LH94/4 replace type B-27F and B-27G, respectively of Drawing 9000-S6202-73907.

FIGURE 3. Midget screw lamp socket.

REQUIREMENTS:

1. Qualification: Not required.
2. Material:
 - (a) Terminal block: Type MME and MAI-60 of ASTM D5948.
 - (b) Shell, locknut, washer cup, lamp socket-holder, busing, socket, contact, electrical terminal: Brass.
 - (c) O-ring: Rubber.
3. Finish: Exposed metal parts shall be black nickel.
4. Design and construction: See figures 1 and 2.
5. Internal wiring: shall be insulated to prevent the possibility of shorting.
6. Lamp sockets: shall be as shown on figure 3.
7. Transformers: Center tap of transformer secondary shall be grounded to the face plate of indicator light housing.
8. Electrical terminals: Electrical terminals shall be provided by using No. 6-32 round head corrosion resistant steel machine or brass screws ¼ inch (6.35) long and inserts securely attached to the terminal block. Molded separations, at least 3/16 inch (4.76 mm) high and 3/32 inch (2.38 mm) shall be provided between the terminals to prevent shortouts when electrical connections are made using terminal lugs.
9. Dielectric withstanding voltage: At sea level shall be 1,000 volts alternating current.
10. Voltage regulation: with rated voltage impressed on the primary of the transformer, the low secondary voltage shall be 2.0 ± 0.1 volts with both 2.5 volts, 0.2 ampere lamps burning and 2.5 ± 0.3 volts with one lamp removed. Load conditions are 0 (no load) and 0.5 ampere full load.
11. Shock: Method II.

12. Temperature rise: Transformers shall be capable of operating continuously with rated voltage impressed across the primary and rated output on the secondary without exceeding a temperature rise of 32 °C. The standard rating shall be as shown in table I.
13. Locknut: Hexagonal with rounded corners 1-1/16 inch (26.99 mm) outside diameter (o.d.), 1 inch (25.4 mm) across flats, 7.8 inch (22.63 mm) UNS-2B-thread, 3/16 inch (4.76 mm) thick.
14. Washer cup: 1-5/16 inch (33.45 mm) o.d., 57/64 inch (22.62 mm) inside diameter, 1/8 inch (3.18 mm) high, 0.051 inch (1.30 mm) thick.
15. O-ring: size shall be SAE-AS28775-212.

VERIFICATION

First article inspection:

First article inspection: first article inspection of style LH94 housings shall consist of the following:

- (a) Visual and dimensional examination.
- (b) Shock.
- (c) Vibration.
- (d) Moisture resistance.
- (e) Dielectric withstanding voltage.
- (f) Temperature rise (as specified herein).
- (g) Voltage regulation (as specified herein).

Conformance inspection: Conformance inspection shall consist of the following examination and test:

- (h) Visual and dimensional examination.
- (i) Dielectric withstanding voltage.

Sampling for conformance inspection: A random sample of lenses shall be selected from each lot in accordance with MIL-STD-1916, verification level I. Any housing in the sample containing one or more defects or failing to conform to the dielectric withstanding voltage test shall be rejected. If the number of nonconforming housings in any sample exceeds the acceptance number for that sample, the lot represented by the sample shall be rejected.

Referenced documents. In addition to MIL-DTL-3661, this document references the following:

ASTM-D5948	MIL-DTL-3661/56	SAE-AS28775
MIL-DTL-3661/52	MIL-DTL-3661/57	
MIL-DTL-3661/53	MIL-DTL-3661/58	
MIL-DTL-3661/54	MIL-DTL-3661/59	
MIL-DTL-3661/55	MIL-STD-1916	

Changes from previous issue. Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extent of the changes.

CONCLUDING MATERIAL

Custodians:

Navy – SH

DLA – GS2

Preparing activity:

DLA – CC

(Project 6210-2025-009)

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <https://assist.dla.mil>.