

INCH-POUND

MIL-DTL-3661/52C

w/AMENDMENT 2

29 July 2024

SUPERSEDING

MIL-L-3661/52C

2 May 1979

Amendment 1

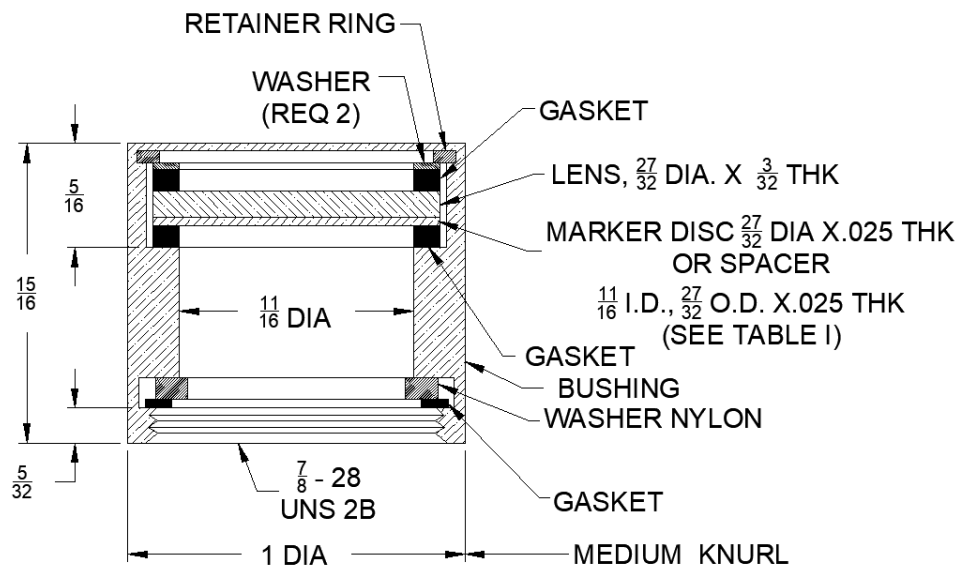
24 June 2003

DETAIL SPECIFICATION SHEET

LAMPHOLDERS, LENSES, INDICATOR LIGHTS, TARGET, STYLE LC38

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
0.025	0.64	$\frac{11}{16}$	17.46
$\frac{3}{32}$	2.38	$\frac{27}{32}$	21.43
$\frac{1}{8}$	3.18	$\frac{7}{8}$	22.23
$\frac{5}{16}$	7.94	1.00	25.40
$\frac{11}{32}$	8.73		

FIGURE 1. Style LC38 lenses.

AMSC N/A

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

FSC 6210



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NOTES:

1. Dimensions are in inches. Unless otherwise specified, tolerances are plus or minus 1/64 inch (0.40 mm) for fractions and plus or minus 0.015 inch (0.40 mm) for decimals.
2. Metric equivalents (to the nearest 0.01 mm) are given for general information only and are based upon 1 inch = 25.40 mm

REQUIREMENTS:

1. Qualification: Not required.
2. Material: As shown on figure 1 and as follows:
 - (a) Bushing, washer, marker disc, spacer: Brass.
 - (b) Retainer ring: Spring brass.
 - (c) Gasket: Rubber.
 - (d) Lens: High impact, heat resistant clear glass or plexiglass.
3. Finish: All exposed metal parts, black nickel.
4. Design and construction: see figure 1.
5. Knurl design: Optional.
6. Ozone: The lenses shall be subjected to ozone having a concentration of from 0.010 to 0.015 percent by volume for 2 hours at room temperature. At the end of this period, the samples shall be examined for evidence of deterioration such as cracking or discoloration.
7. Sealing: Dripproof.
8. Temperature cycling: Minus 65 °C to plus 200 °C.

Table I. Style LC38 lenses.

Type designation ^{1/2/}	Transmittance	Lens color
LC38CN1M	Nondiffusing	Colorless
LC38CN1S	Nondiffusing	Colorless
LC38BN1M	Nondiffusing	Blue
LC38BN1S	Nondiffusing	Blue
LC38GN1M	Nondiffusing	Green
LC38GN1S	Nondiffusing	Green
LC38RN1M	Nondiffusing	Red
LC38RN1S	Nondiffusing	Red
LC38WT1M	Translucent	White
LC38WT1S	Translucent	White
LC38YN1M	Nondiffusing	Yellow
LC38YN1S	Nondiffusing	Yellow

^{1/} style LC38 lenses shall mate with any of the indicator light housing shown on MIL-L-3661/61 through MIL-DTL-3661/65.

^{2/} In the type designation the "M" indicates marker, the "S" – spacer (see figure 1).

Supersession data: This specification sheet replaces piece 16 of Drawing 9000-S6202-73907.

VERIFICATION

First article inspection:

Complete lampholder assembly: When lenses specified herein are acquired as a part of an assembly, the lens with the indicator light housing shall be subjected to the applicable tests listed in MIL-DTL-3661. An ozone test to determine conformance with requirement 6 shall also be conducted.

Lenses: When lenses are acquired separately, first article inspection shall consist of the following examination and tests:

- (a) Visual and dimensional examination.
- (b) Sealing.
- (c) Temperature cycling.
- (d) Ozone.

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

- (a) Visual and dimensional examination.
- (b) Sealing.

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 lens in the sample containing one or more defects or failing to conform to the sealing test shall be rejected. If the number of nonconforming lenses 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:

MIL-L-3661/61	MIL-DTL-3661/65
MIL-L-3661/62	MIL-STD-1916
MIL-L-3661/63	
MIL-L-3661/64	

Amendment notations. The margins of this specification are marked with vertical lines to indicate modifications generated by this amendment. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations.

CONCLUDING MATERIAL

Custodians:

Army - CR
Navy - SH
DLA - GS

Preparing activity:

DLA - CC
(Project 6210-2024-006)

Review Activities:

Army - CR4

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>.