This mil[illegible] standard has been approved by the Department of Defense and is [illegible]ory for use by all Departments and Agencies of the Departm[illegible] Defense. Selection for all new engineering and design applications and for repetitive use shall be made from this document.

Review activ[illegible]
NAVY -
[illegible] -
[illegible] - 11

User activities:

P.A. NAVY - AS
Other Cust
ARMY - [illegible]
USAF - 11

PROCUREMENT SPECIFICATION

SUPERSEDES:

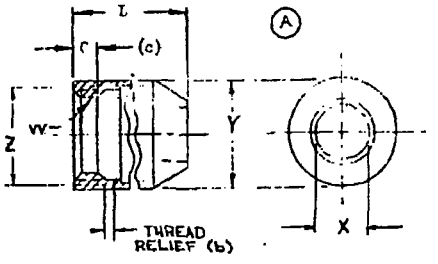
TITLE

# MOLD, POTTING, AND ADAPTER, ELECTRIC CONNECTOR

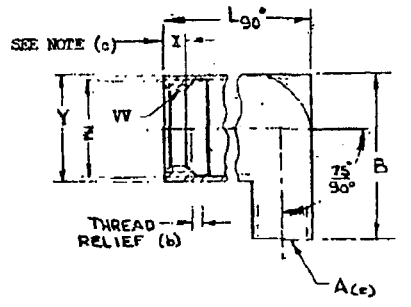
MILITARY STANDARD

# MS 3185

SHEET 1 OF 1




STRAIGHT BOOT -1




75°-90° ELBOW -2

(A)

| SIZE | PART NUMBER (d) | W CLASS 2B THREAD | A MIN (e) CROSS - SEC AREA IN² | B MAX | C MIN PERF THD | L MAX OAL | L 75° -90° MAX | X MIN DIA ID | Y MAX DIA OD | Z MIN DIA ID |
|---|---|---|---|---|---|---|---|---|---|---|
| 8 | MS3185-8-* | 7/16-28 | .078 | 1.030 | .199 | .825 | 1.125 | .317 | .608 | .386 |
| 10 | MS3185-10-* | 9/16-24 | .147 | 1.125 | | | 1.250 | .433 | .734 | .503 |
| 12 | MS3185-12-* | 11/16-24 | .190 | 1.250 | | | 1.344 | .548 | .858 | .628 |
| 14 | MS3185-14-* | 13/16-20 | .226 | 1.297 | | | 1.453 | .673 | .984 | .733 |
| 16 | MS3185-16-* | 15/16-20 | .304 | 1.375 | | | 1.516 | .798 | 1.110 | .868 |
| 18 | MS3185-18-* | 1-1/16-18 | .532 | 1.469 | | | 1.594 | .899 | 1.234 | .985 |
| 20 | MS3185-20-* | 1-3/16-18 | .619 | 1.700 | .287 | .915 | 1.750 | 1.024 | 1.360 | 1.110 |
| 22 | MS3185-22-* | 1-5/16-18 | .690 | 1.703 | | | 1.828 | 1.149 | 1.484 | 1.235 |
| 24 | MS3185-24-* | 1-7/16-18 | .806 | 2.100 | .199 | | 2.125 | 1.274 | 1.610 | 1.362 |

(a) DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED
(b) THREAD RELIEF MUST BE LARGER THAN ONE FULL THREAD TO ALLOW POTTING COMPOUND TO FILL THREAD RELIEF WHEN BOOT IS BOTTOMED ON MATING CONNECTOR ACCESSORY THREAD

(A) (c) WHEN SEPARATE METAL THREADED RING IS PROVIDED, RING SHALL BE .125 MINIMUM THICK HAVING AN INTERFERENCE FIT WITH THE BOOT. THE SEPARATE METAL RING SHALL BE MANDATORY ON THE 75° - 90° ELBOW.

(d) EXAMPLE OF PART NUMBER: MS3185 -10- *

MS NUMBER — SIZE — BOOT GEOMETRY: -1 STRAIGHT; -2 75°-90° ELBOW

(e) ENTRANCE CONFIGURATION OPTIONAL WITH INDICATED CROSS-SECTION AREA
(f) MATERIAL: BOOT BODY OR PLASTIC PARTS - TRANSLUCENT NYLON
METAL THREADED RING - ALUMINUM
(g) MINIMUM PLASTIC WALL THICKNESS - .020

FOR DESIGN FEATURE PURPOSES THIS STANDARD TAKES PRECEDENCE OVER PROCUREMENT DOCUMENTS REFERENCED HEREIN. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BID.

FED. SUP CLASS
5935

APPROVED 7 DEC 1965 REVISED (A) 15 FEB 67