

INCH-POUND

MIL-DTL-28840/15C  
20 April 2004  
SUPERSEDING  
MIL-C-28840/15B(EC)  
4 January 1983

DETAIL SPECIFICATION SHEET

CONNECTORS, ELECTRICAL, CIRCULAR, THREADED,  
HIGH SHOCK, HIGH DENSITY, SHIPBOARD, DUST COVER, PLUG

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-28840.

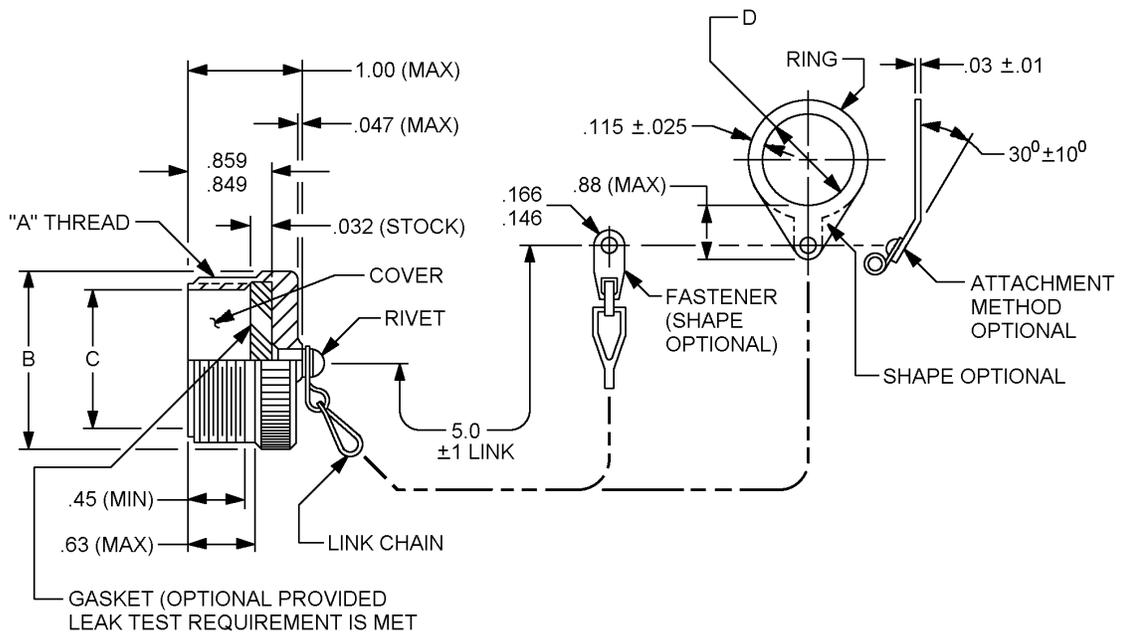


FIGURE 1. Dimensions and configurations.

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Designator (see note 1)	A thread class 2B	B Max. dia.	C ± .006 ± .15	D ± .010 ± .25
A (11)	.750-1P-.2L-DS	1.028 (26.21)	.575 (14.60)	.765 (19.43)
B (13)	.875-1P-.2L-DS	1.141 (28.98)	.699 (17.75)	.890 (22.61)
C (15)	1.062-1P-.2L-DS	1.263 (32.08)	.871 (22.12)	1.015 (25.78)
D (17)	1.125-1P-.2L-DS	1.387 (35.23)	.941 (23.90)	1.140 (28.96)
E (19)	1.312-1P-.2L-DS	1.513 (38.43)	1.108 (28.14)	1.265 (32.13)
F (23)	1.500-1P-.2L-DS	1.703 (43.51)	1.293 (32.84)	1.453 (36.91)
G (25)	1.625-1P-.2L-DS	1.825 (46.35)	1.454 (36.93)	1.577 (40.06)
H (29)	1.812-1P-.2L-DS	2.143 (54.43)	1.620 (41.15)	1.890 (48.01)
J (33)	2.000-1P-.2L-DS	2.329 (59.16)	1.812 (46.02)	2.077 (52.76)

Inches	mm	Inches	mm
.01	.25	.450	11.43
.025	.64	.630	16.00
.03	.76	.849	21.56
.032	.81	.859	21.82
.047	1.19	.88	22.35
.115	2.92	1.00	25.40
.146	3.71	5.00	127.00
.166	4.22		

NOTES:

1. Shell sizes are provided within parentheses for information and are not a part of the designator.
2. Dimensions are in inches.
3. Metric equivalents are given for general information only.
4. Dimensions apply after plating.

FIGURE 1. Dimensions and configurations - Continued.

REQUIREMENTS

Dimensions and configurations: See figure 1.  
 Interface dimensions shall conform to MIL-DTL-28840.

Material

Cover: Aluminum alloy in accordance with SAE-AMS-QQ-A-225, ASTM B85, ASTM B108, ASTM B26/B26M.

Corrosion resistant steel shall be in accordance with SAE-AMS-QQ-S-763, class 316.

Gasket: Flourosilicone.

Chain and other hardware: 300 series corrosion resistant steel.

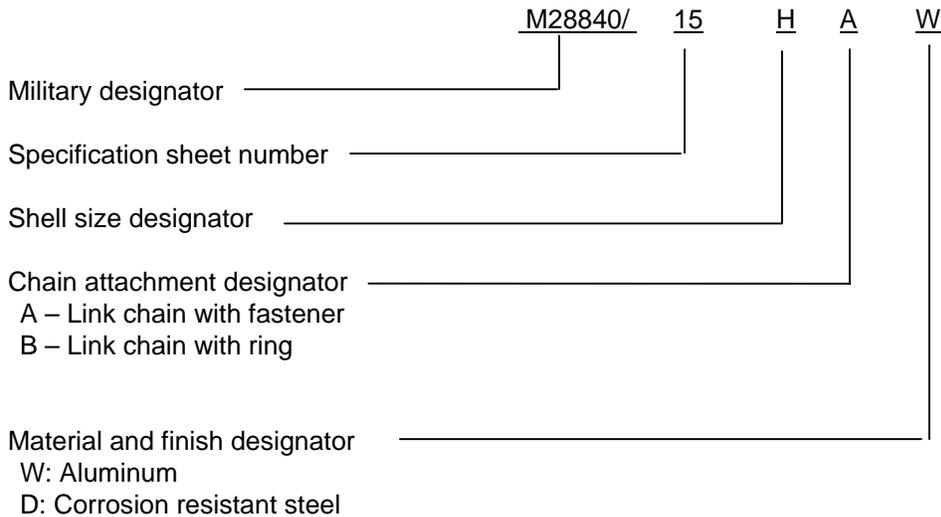
Finish

Cover: Aluminum shall be cadmium plate, olive drab over electroless nickel, corrosion resistant Resistant steel, cadmium plate, black.

Chain and other hardware: Passivated in accordance with SAE-AMS-QQ-P-35.

Marking: The cover shall be identified with the manufacturer's name or trade-mark and the Part or Identifying Number (PIN).

PIN example:



Qualification: One protective cover of each shell size for which qualification is desired shall have the following tests performed in the sequence shown:

Visual and mechanical

Magnetic permeability

Shell conductivity

Corrosion

Air leakage: Cover shall be mated to suitable connector plug and tested in accordance with test procedure 02 of EIA-364. The following details shall apply: The air leakage rate shall not be greater than one atmospheric cubic inch per hour ( $4.55 \times 10^{-3}$  cubic centimeter per second).

Tensile strength: Cover shall be mounted to a suitable fixture to facilitate a 25-pound pull applied at the rate of 5 pounds per second and held for a period of 5 minutes. The load shall be applied to the chain end fastener through the center line axis of the protective cover, then repeated through a perpendicular axis (90°) from the centerline axis. Chain or fastener breakage, or loosening of the rivet shall be considered failures.

Shell conductivity

Post visual and mechanical

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.

Reference documents. In addition to MIL-DTL-28840, this document references the following:

ASTM B26/B26M

ASTM B85

ASTM B108

EIA-364

SAE-AMS-QQ-P-35

SAE-AMS-QQ-A-225

SAE-AMS-QQ-S-763

#### CONCLUDING MATERIAL

Custodians:

Navy - EC

DLA - CC

Preparing activity:

DLA - CC

(Project 5935-4416-010)

Review activities:

Navy - OS, SH

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 data at <http://www.dodssp.daps.mil>.