

INCH-POUND

MIL-DTL-28840/23D  
21 November 2013  
SUPERSEDING  
MIL-DTL-28840/23C  
11 January 2010

DETAIL SPECIFICATION SHEET

CONNECTORS, ELECTRICAL, CIRCULAR, THREADED, HIGH SHOCK,  
HIGH DENSITY, SHIPBOARD, BACKSHELL, GLAND NUT, WIRING

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.

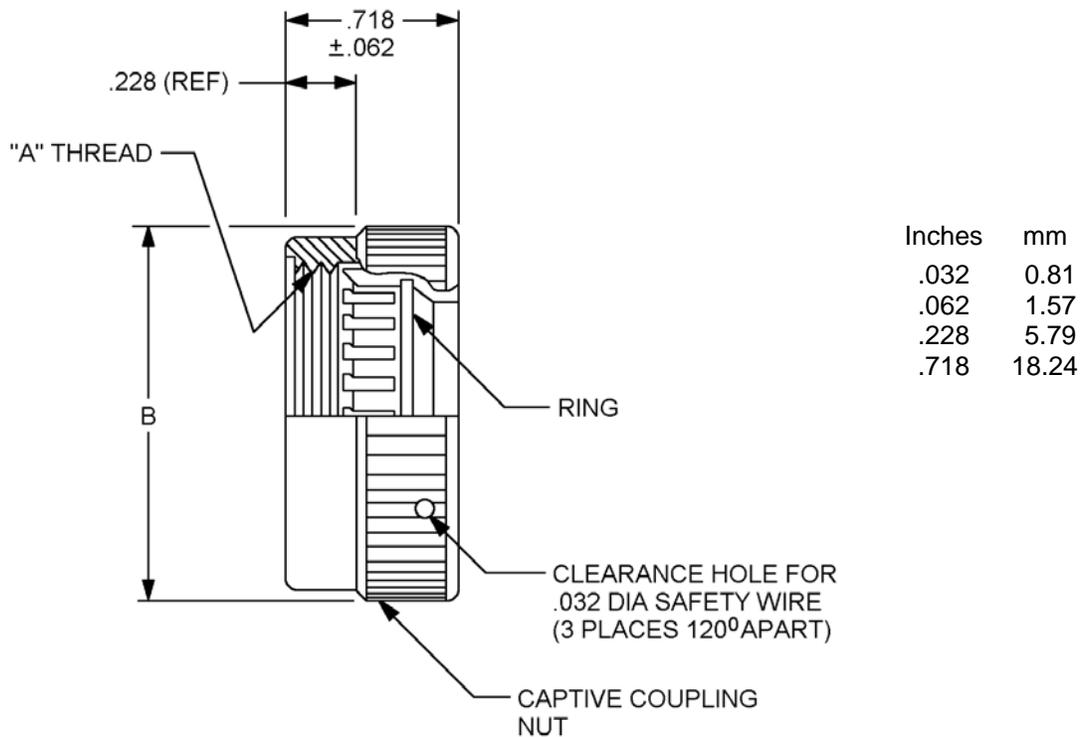


FIGURE 1. Dimensions and configurations.

Designator (see note 1)	A thread class 2B	B dia max
A (11)	.750-20 UNEF	1.028 (26.11)
B (13)	.875-20 UNEF	1.141 (28.98)
C (15)	1.000-20 UNEF	1.263 (32.08)
D (17)	1.125-18 UNEF	1.387 (35.23)
E (19)	1.250-18 UNEF	1.513 (38.43)
F (23)	1.438-18 UNEF	1.703 (43.26)
G (25)	1.562-18 UNEF	1.825 (46.35)
H (29)	1.876-16 UN	2.143 (54.43)
J (33)	2.062-16 UNS	2.329 (59.16)

## 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 information only.
4. Dimensions apply after plating.
5. These gland nuts are used with MIL-DTL-28840/10, /11, /14 and /16.

FIGURE 1. Dimensions and configurations - Continued.

REQUIREMENTS:

Dimensions and configurations: See figure 1.

Interface dimensions shall conform to MIL-DTL-28840.

Material and finish: See table I.

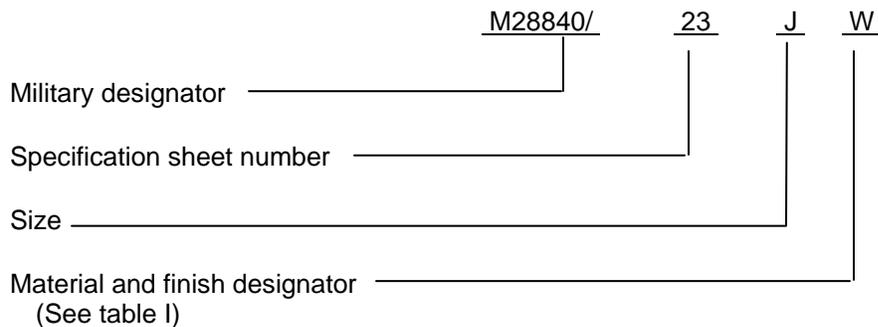
TABLE I. Material and finish.

Material and finish designator	Material	Finish
W	Aluminum alloy in accordance with ASTM B85/B85M, ASTM B26/B26M, ASTM B108/B108M, ASTM B209, ASTM B211, or ASTM B221	Cadmium plate, olive drab over electroless nickel
D	Corrosion resistant steel in accordance with ASTM A276, ASTM A473, or ASTM A580/A580M, type 316	Cadmium plate, black <u>1/</u>
F	Aluminum alloy in accordance with ASTM B85/B85M, ASTM B26/B26M, ASTM B108/B108M, ASTM B209, ASTM B211, or ASTM B221	Pure electro-deposited aluminum, non-reflective
L		Nickel fluorocarbon polymer, non-reflective
S		Zinc nickel, non-reflective
N	Corrosion resistant steel in accordance with ASTM A276, ASTM A473, or ASTM A580/A580M, type 316	Nickel fluorocarbon polymer, non-reflective
R		Zinc nickel, non-reflective

1/ Screws and washers shall be passivated in accordance with SAE-AMS2700, type 2.

Marking: Backshell shall be identified with the manufacturer's name or trademark and the Part or Identifying Number (PIN).

PIN example:



RESTRICTIONS:

Material and finish designators W and D are inactive for NAVSEA new design, unless approved by NAVSEA.

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Changes from previous issue. The margins of this specification are marked with vertical lines to indicate where changes from the previous issue were made. 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 and relationship to the last previous issue.

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

MIL-DTL-28840/10  
MIL-DTL-28840/11  
MIL-DTL-28840/14  
MIL-DTL-28840/16  
ASTM A276  
ASTM A473  
ASTM A580/A580M  
ASTM B26/B26M  
ASTM B85/B85M  
ASTM B108/B108M  
ASTM B209  
ASTM B211  
ASTM B221  
SAE-AMS2700

CONCLUDING MATERIAL

Custodians:

Army - AT  
Navy - EC  
Air Force - 85  
DLA - CC

Preparing activity:  
DLA - CC

(Project 5935-2013-121)

Review activities:

Army – AV, MI  
Air Force – 99

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>.