

INCH-POUND

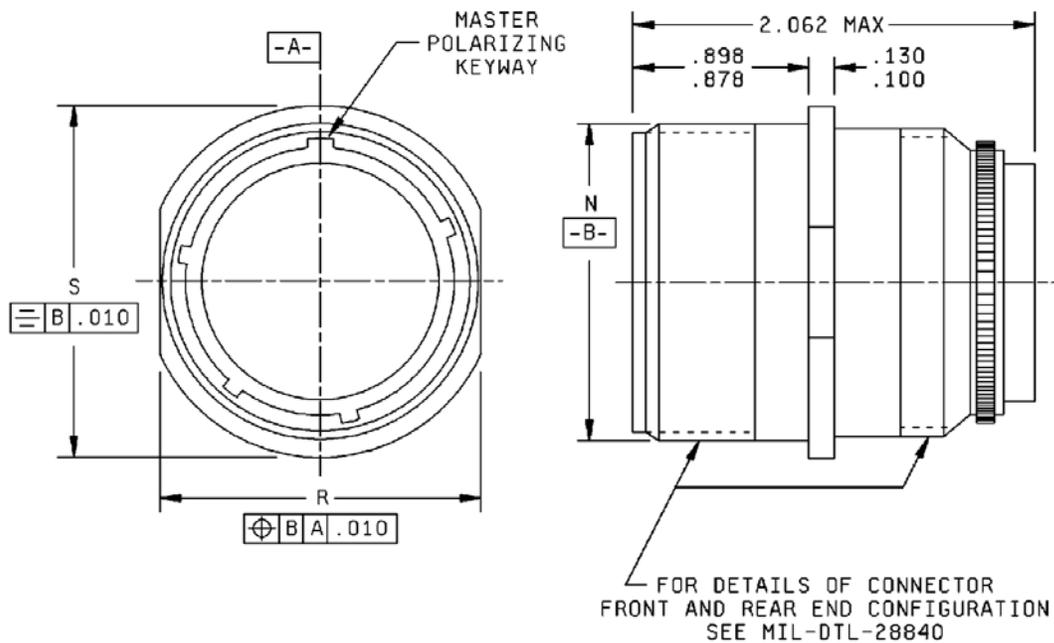
MIL-DTL-28840/11D  
14 November 2013  
SUPERSEDING  
MIL-DTL-28840/11C  
23 October 2009

DETAIL SPECIFICATION SHEET

CONNECTORS, ELECTRICAL, CIRCULAR, THREADED, HIGH SHOCK, HIGH DENSITY,  
SHIPBOARD, CRIMP CONTACTS, RECEPTACLE, CABLE CONNECTING,  
CLASSES D, DS, P, T, TS, Z, AND ZS

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.



Inches	mm
.010	0.25
.016	0.41
.100	2.54
.130	3.30
.878	22.30
.898	22.81
2.062	52.37

FIGURE 1. Dimensions and configuration.

MIL-DTL-28840/11D

Shell size designator (see note 1)	N dia max	R	S
A (11)	.750 (19.05)	.768 (19.51) .758 (19.25)	.963 (24.46) .943 (23.95)
B (13)	.875 (22.22)	.893 (22.68) .883 (22.43)	1.088 (27.63) 1.063 (27.00)
C (15)	1.062 (26.97)	1.080 (27.43) 1.070 (27.18)	1.275 (32.38) 1.255 (31.88)
D (17)	1.125 (28.58)	1.143 (29.03) 1.133 (28.78)	1.338 (33.98) 1.318 (33.48)
E (19)	1.312 (33.32)	1.330 (33.78) 1.320 (33.53)	1.525 (38.74) 1.505 (38.23)
F (23)	1.500 (38.10)	1.518 (38.56) 1.508 (38.30)	1.713 (43.51) 1.693 (43.00)
G (25)	1.625 (41.28)	1.643 (41.73) 1.633 (41.48)	1.838 (46.69) 1.818 (46.18)
H (29)	1.812 (46.02)	1.893 (48.08) 1.883 (47.83)	2.088 (53.04) 2.068 (52.53)
J (33)	2.000 (50.80)	2.080 (52.83) 2.070 (52.58)	2.275 (57.78) 2.255 (57.28)

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. Designator of backshell size within each shell size.

FIGURE 1. Dimensions and configuration – Continued.

MIL-DTL-28840/11D

REQUIREMENTS:

Dimensions and configurations: See figure 1.

Classes: D, DS, P, T, TS, Z and ZS.

Insert arrangements: See the figure of MIL-STD-1698 corresponding to the desired shell size.

Contacts: Pin or socket, crimp type, styles P, S, D, E, F or G, in accordance with MIL-DTL-28840.

Shell polarization: 1 thru 6, key position.

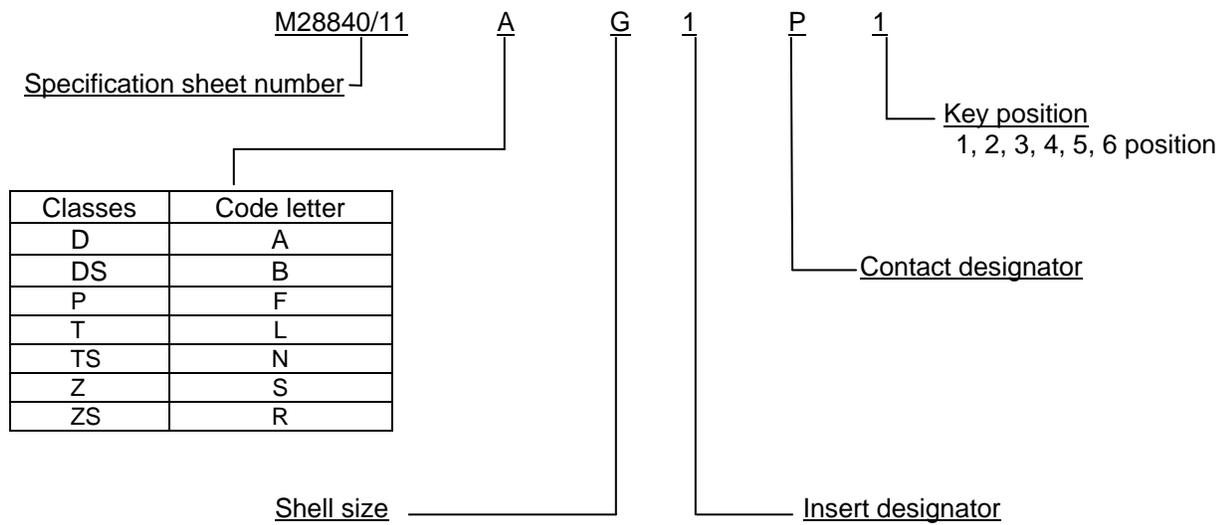
Marking: Part or Identifying Number (PIN) on shell.

Mating counterpart: Plug connectors specified in MIL-DTL-28840/16, /17, /18, /19, /26, /28, and /29.

Installation and removal tools: As specified in MIL-I-81969/33 and /34.

A backshell shall be used to meet moisture and water pressure requirements.

PIN example:



Restrictions:

Classes D and DS are inactive for NAVSEA new design, unless approved by NAVSEA.

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-28840/16  
MIL-DTL-28840/17  
MIL-DTL-28840/18  
MIL-DTL-28840/19  
MIL-DTL-28840/26  
MIL-DTL-28840/28  
MIL-DTL-28840/29  
MIL-I-81969/33  
MIL-I-81969/34  
MIL-STD-1698

#### CONCLUDING MATERIAL

Custodians:

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

Preparing activity:

DLA - CC

(Project 5935-2013-109)

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>.