

INCH-POUND

MIL-DTL-28840/14G
 14 November 2013
 SUPERSEDING
 MIL-DTL-28840/14F
 23 October 2009

DETAIL SPECIFICATION SHEET

CONNECTORS, ELECTRICAL, CIRCULAR, THREADED,
 HIGH SHOCK, HIGH DENSITY, SHIPBOARD, CRIMP CONTACTS,
 RECEPTACLE, JAM NUT MOUNTING, 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.

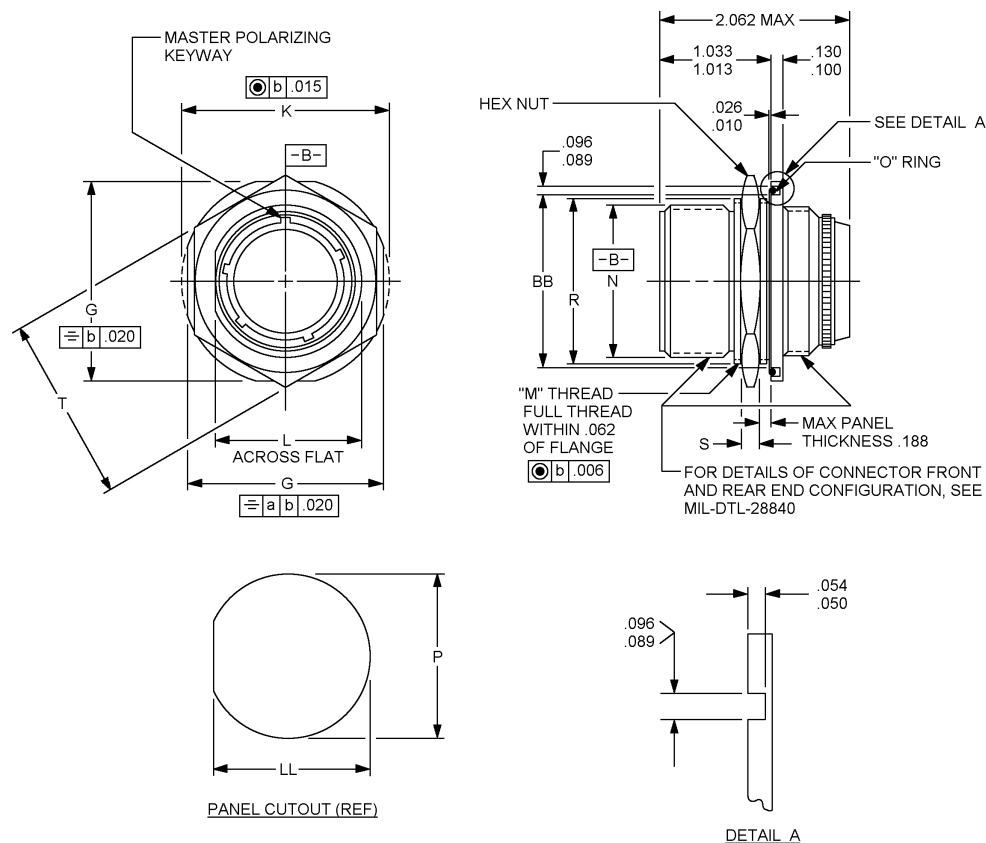


FIGURE 1. Dimensions and configurations.

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| Inches | mm | Inches | mm | Inches | mm | Inches | mm |
|--------|------|--------|------|--------|------|--------|-------|
| .006 | 0.15 | .050 | 1.27 | .100 | 2.54 | 1.013 | 25.73 |
| .010 | 0.25 | .054 | 1.37 | .125 | 3.18 | 1.033 | 26.24 |
| .015 | 0.38 | .062 | 1.57 | .130 | 3.30 | 2.062 | 52.37 |
| .020 | 0.51 | .089 | 2.26 | .188 | 4.75 | | |
| .026 | 0.66 | .096 | 2.44 | .189 | 4.80 | | |

| Shell size designator (see note 1) | G | K | L across flat | M thread class 2A |
|--|--------------------------------|--------------------------------|--------------------------------|----------------------|
| A (11) | 1.274 (32.36) 1.254 (31.85) | 1.368 (34.75) 1.348 (34.24) | .841 (21.36) .832 (21.13) | 7/8-20 UNEF |
| B (13) | 1.399 (35.53) 1.379 (35.03) | 1.508 (38.30) 1.488 (37.80) | .966 (24.54) .957 (24.31) | 1-20 UNEF |
| C (15) | 1.587 (40.31) 1.567 (39.80) | 1.681 (42.70) 1.661 (42.19) | 1.153 (29.29) 1.144 (29.06) | 1 3/16-18 UNEF |
| D (17) | 1.649 (41.88) 1.629 (41.38) | 1.743 (44.27) 1.723 (43.76) | 1.216 (30.89) 1.207 (30.66) | 1 1/4-18 UNEF |
| E (19) | 1.837 (46.66) 1.817 (46.15) | 1.931 (49.05) 1.911 (48.54) | 1.403 (35.64) 1.394 (35.41) | 1 7/16-18 UNEF |
| F (23) | 2.024 (51.41) 2.004 (50.90) | 2.118 (53.80) 2.098 (53.29) | 1.591 (40.41) 1.582 (40.18) | 1 5/8-18 UNEF |
| G (25) | 2.149 (54.58) 2.129 (54.08) | 2.243 (56.97) 2.223 (56.46) | 1.716 (43.59) 1.707 (43.36) | 1 3/4-18 UNS |
| H (29) | 2.337 (59.36) 2.317 (58.85) | 2.435 (61.85) 2.415 (61.34) | 1.903 (48.34) 1.894 (48.11) | 1 15/16-16 N |
| J (33) | 2.524 (64.11) 2.504 (63.60) | 2.618 (66.50) 2.598 (65.99) | 2.091 (53.11) 2.082 (52.88) | 2 1/8-16 UN |

FIGURE 1. Dimensions and configurations - Continued.

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| Shell size designator (see note 1) | N max | P | R max | S hex nut thickness |
|--|------------------|--------------------------------|---------------|---------------------------|
| A (11) | .750 (19.05) | .890 (22.61) .880 (22.35) | .875 (22.22) | .125 |
| B (13) | .875 (22.22) | 1.015 (24.78) 1.005 (25.78) | 1.000 (25.40) | .125 |
| C (15) | 1.062 (26.97) | 1.203 (30.56) 1.193 (30.30) | 1.188 (30.18) | .125 |
| D (17) | 1.125 (28.58) | 1.265 (32.13) 1.255 (31.88) | 1.250 (31.75) | .125 |
| E (19) | 1.312 (33.32) | 1.453 (36.91) 1.443 (36.65) | 1.438 (36.52) | .125 |
| F (23) | 1.500 (38.10) | 1.640 (41.66) 1.630 (41.40) | 1.625 (41.28) | .125 |
| G (25) | 1.625 (41.28) | 1.765 (44.83) 1.755 (44.58) | 1.750 (44.45) | .189 |
| H (29) | 1.812 (46.02) | 1.953 (49.61) 1.943 (49.35) | 1.938 (49.22) | .189 |
| J (33) | 2.000 (50.80) | 2.140 (54.36) 2.130 (54.10) | 2.125 (53.98) | .189 |

FIGURE 1. Dimensions and configurations - Continued.

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| Shell size designator (see note 1) | T ± .017 | BB | LL |
|--|-------------|--------------------------------|--------------------------------|
| A (11) | 1.062 | .979 (24.87) .969 (24.61) | .853 (21.67) .843 (21.41) |
| B (13) | 1.188 | 1.104 (28.04) 1.094 (27.79) | .978 (24.84) .968 (24.59) |
| C (15) | 1.375 | 1.292 (32.82) 1.282 (32.56) | 1.165 (29.59) 1.155 (29.34) |
| D (17) | 1.438 | 1.354 (34.39) 1.344 (34.14) | 1.228 (31.19) 1.218 (30.94) |
| E (19) | 1.625 | 1.542 (39.17) 1.532 (38.91) | 1.415 (35.94) 1.405 (35.69) |
| F (23) | 1.812 | 1.729 (43.92) 1.719 (43.66) | 1.603 (40.72) 1.593 (40.46) |
| G (25) | 2.000 | 1.854 (47.09) 1.844 (46.84) | 1.728 (43.89) 1.718 (43.64) |
| H (29) | 2.188 | 2.042 (51.87) 2.032 (51.61) | 1.915 (48.64) 1.905 (48.39) |
| J (33) | 2.375 | 2.229 (56.62) 2.219 (56.36) | 2.103 (53.42) 2.093 (53.16) |

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. Normal mating keyway position shown. For alternate keyway positions, see MIL-DTL-28840.

FIGURE 1. Dimensions and configurations - Continued.

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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: Style P or S crimp type.

Shell polarization: 1 thru 6, key position.

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

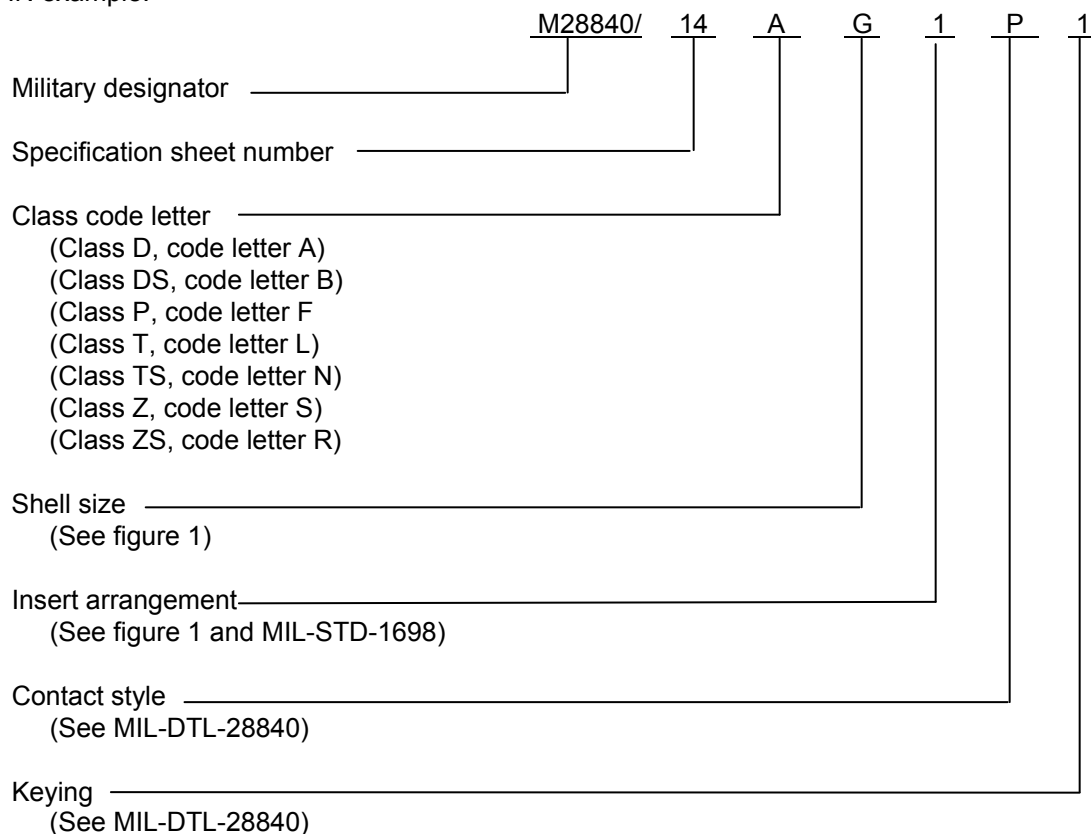
Installation and removal tool: As specified in MIL-I-81969/33 and /34.

Mounting nuts shall have six equally spaced holes capable of withstanding a 50 pound pull in any direction when using the .030 inch minimum diameter wire specified in NASM33540. A backshell shall be used to meet moisture and water pressure requirements.

O-ring material: Fluorosilicone.

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

PIN example:



RESTRICTIONS:

Classes D and DS 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-28840/16
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
NASM33540

CONCLUDING MATERIAL

Custodians:

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

Preparing activity:

DLA - CC

(Project 5935-2013-112)

Review activities:

Army – AV, MI
Navy – OS, SH
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>.