

INCH-POUND

MIL-DTL-24308/28E
w/AMENDMENT 1
8 March 2013
SUPERSEDING
MIL-DTL-24308/28E
1 December 2009

DETAIL SPECIFICATION SHEET

CONNECTORS, ELECTRIC, RECTANGULAR, MINIATURE,
POLARIZED SHELL, RACK AND PANEL, INSULATION
DISPLACEMENT, PIN CONTACTS, NONENVIRONMENTAL, CLASS G

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-24308.

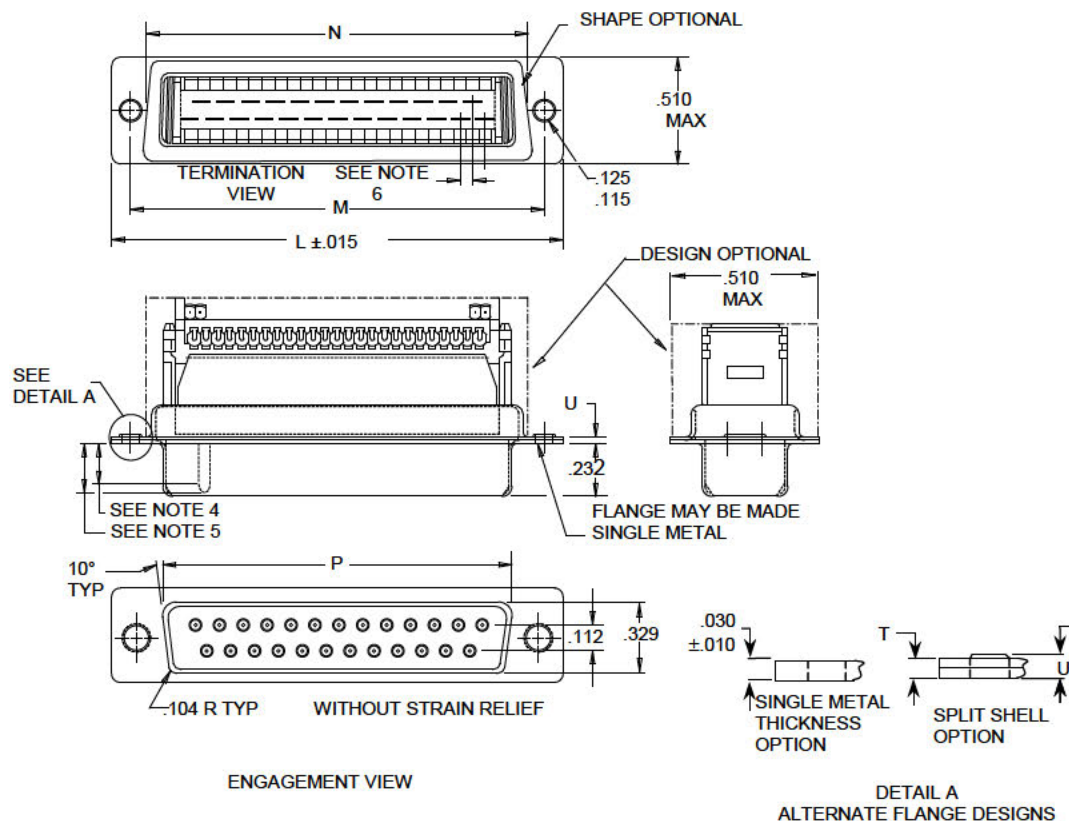
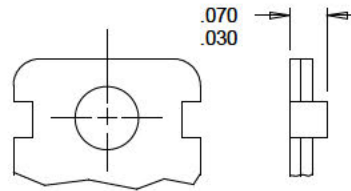
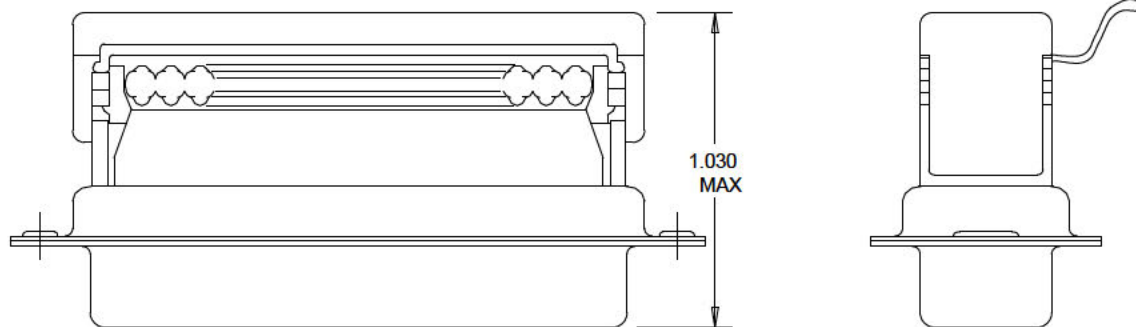


FIGURE 1. Dimensions and configuration.

MIL-DTL-24308/28E
w/AMENDMENT 1



ALTERNATE METHOD
OF SECURING SHELL



| Inches | mm | Inches | mm | Inches | mm |
|--------|------|--------|------|--------|-------|
| .010 | 0.25 | .100 | 2.54 | .232 | 5.89 |
| .015 | 0.38 | .104 | 2.64 | .329 | 8.36 |
| .030 | 0.76 | .112 | 2.84 | .422 | 10.72 |
| .050 | 1.27 | .115 | 2.92 | .494 | 12.55 |
| .070 | 1.78 | .125 | 3.18 | 1.030 | 26.16 |

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified tolerances are ± 0.005 (0.13mm) for three place decimals and ± 0.01 (0.25mm) for two place decimals.
4. Dimensions are .164 (4.17mm) minimum full pin diameter, extension (shell sizes 1 and 2) and .155 (3.94mm) minimum full pin diameter, extension (shell sizes 3 and 4).
5. Length for .164 and .155 pin diameter is .220 (5.59mm) maximum.
6. Interface - Round conductor flat cable on .050 (1.27mm) centers.
7. Mating end of contact size 20.

FIGURE 1. Dimensions and configuration - Continued.

MIL-DTL-24308/28E
w/AMENDMENT 1

REQUIREMENTS:

Design and construction:

Dimensions and configuration: See figure 1 and table I.

Mating connector: MIL-DTL-24308/1, MIL-DTL-24308/2, MIL-DTL-24308/5, MIL-DTL-24308/6, MIL-DTL-24308/23, MIL-DTL-24308/27.

Conductor accommodation: 28 AWG stranded round conductor flat cable with conductors on .050 inch (1.27mm) centers.

Contact plating shall be in accordance with MIL-DTL-24308 for solder contacts.

Contact retention: Not applicable.

TABLE I. Dash numbers and characteristics.

| Dash number | Shell size | Number of contacts | Dimensions <u>1/</u> | | | | | | Insert arrangement <u>2/</u> |
|-------------|------------|--------------------|----------------------|------------------|------------------|------------------|----------------------|----------------------|------------------------------|
| | | | L ±.015 (0.38) | M | N MAX | P | U ±.010 (0.25) | T ±.010 (0.25) | |
| -01 | 1 | 9 | 1.213 (30.81) | .984 (24.99) | .769 (19.53) | .666 (16.92) | .046 (1.17) | .030 (0.76) | A-1-1 |
| -02 | 2 | 15 | 1.541 (39.14) | 1.312 (33.32) | 1.093 (27.76) | .994 (25.25) | .046 (1.17) | .030 (0.76) | A-2-1 |
| -03 | 3 | 25 | 2.088 (53.04) | 1.852 (47.04) | 1.635 (41.53) | 1.534 (38.96) | .064 (1.63) | .039 (0.99) | A-3-1 |
| -04 | 4 | 37 | 2.729 (69.32) | 2.500 (63.50) | 2.282 (57.96) | 2.182 (55.42) | .064 (1.63) | .039 (0.99) | A-4-1 |

1/ Metric equivalents are given for information only.2/ For insert arrangements see MIL-DTL-24308 Appendix A.

Materials:

Contacts: Any suitably conductive copper based alloy.

Strain relief: Polyester in accordance with ASTM D5927 or MIL-M-24519 or 300 series stainless steel or an equivalent industry standard.

Insert material: Polyester glass filled 15 percent or type GPT- 15F in accordance with MIL-M-24519.

MIL-DTL-24308/28E
w/AMENDMENT 1

CONCLUDING MATERIAL

Custodians:

Army - CR
Navy - EC
Air Force - 85
NASA - NA
DLA - CC

Preparing activity:

DLA - CC

(Project 5935-2013-027)

Review activities:

Army - AT, AV, CR4, MI
Navy - AS, CG, MC, 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>.