

INCH-POUND

MIL-DTL-642/14A
9 June 2003
SUPERSEDING
MIL-P-642/14
27 February 1979

DETAIL SPECIFICATION SHEET

PLUGS, TELEPHONE (TYPE U-384/U)

5 CONDUCTOR, SINGLE

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 and MIL-P-642.

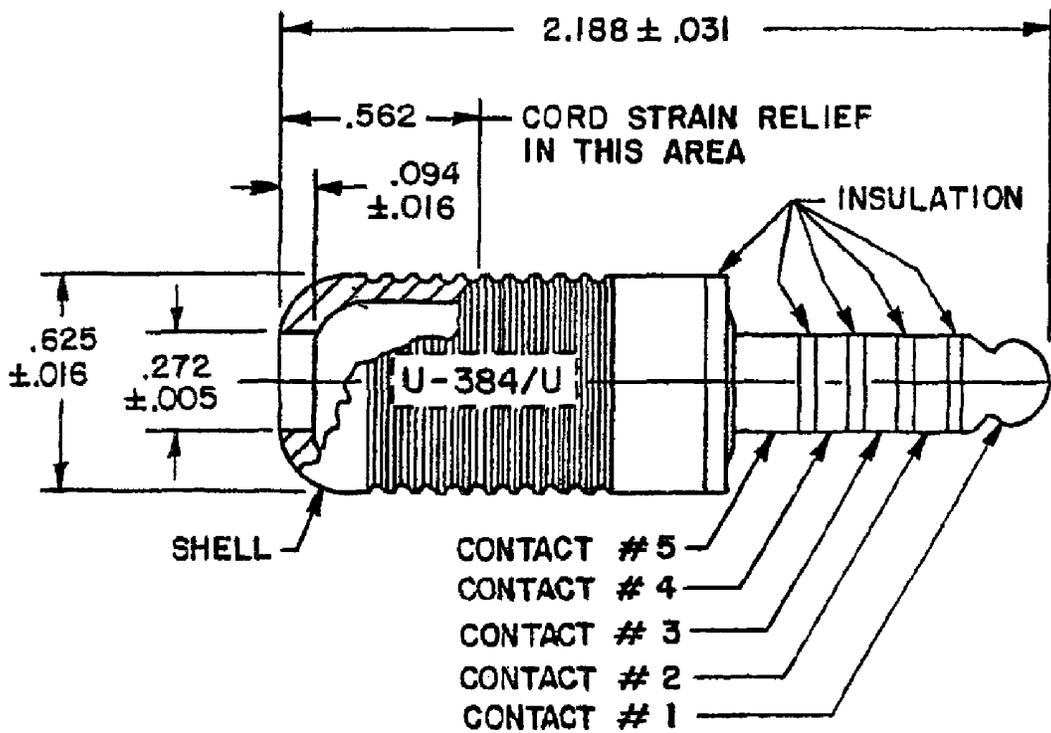
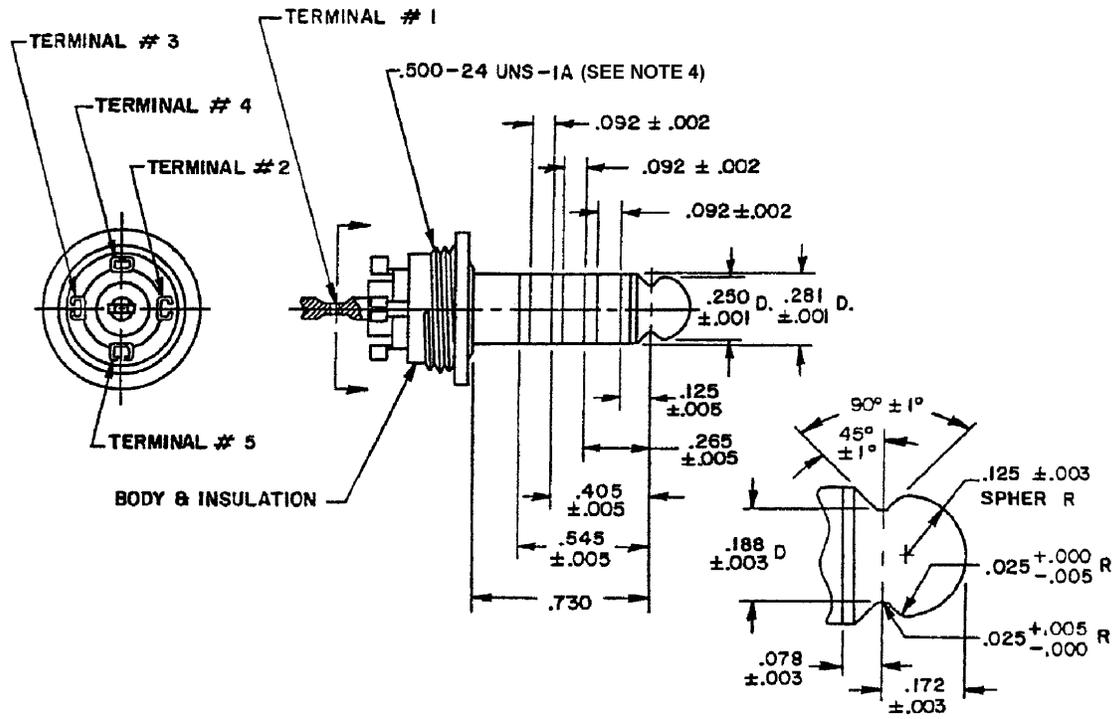


FIGURE 1. Dimensions and configurations.

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Inch/mm conversion chart					
Inches	mm	Inches	mm	Inches	mm
.001	.02	.092	2.34	.281	7.14
.002	.05	.094	2.39	.405	10.29
.003	.08	.125	3.17	.500	12.70
.005	.13	.172	4.37	.545	13.84
.016	.41	.188	4.77	.562	14.28
.025	.64	.250	6.35	.625	15.88
.031	.79	.265	6.73	.730	18.54
.078	1.98	.272	6.91	2.188	55.58

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Contact clearances are not cumulative.
4. Thread shall be in accordance with FED-STD-H28.

FIGURE 1. Dimensions and configurations - Continued.

REQUIREMENTS

Dimensions and configurations: See figure 1.

Shell, body and insulation: Materials shall have electrical and non-electrical properties appropriate for their intended use in electrical components. The shell shall be glass fiber reinforced nylon in accordance with ASTM D4066, black. The body and insulation shall be Penn-Salt Kynar, red.

Contacts: Each of the 5 contacts of the plug shall be of one piece construction. There shall be no mechanical, soldered, or welded joints of any type between the contact area and the solder terminals. The contact material shall be Monel in accordance with QQ-N-281, or equivalent, and shall be abrasion resistant, electrically conductive and rugged enough to comply with this specification without being plated or otherwise treated with preservatives.

Cable clamp: The cable clamp shall anchor cable having diameters from .220 to .275 inches.

Conductor strain relief: The conductor strain relief requirement shall be in accordance with MIL-P-642.

Insertion and withdrawal forces: The insertion and withdrawal forces shall be as follows:

Insertion force:	10 pounds maximum
Withdrawal force:	6.0 pounds minimum; 10 pounds maximum.

Strain relief: The strain relief test shall be in accordance with MIL-P-642.

Longitudinal pull: The longitudinal pull shall be in accordance with MIL-P-642.

Static load: The static load test shall be in accordance with MIL-P-642.

Stack assembly strength: The stack assembly strength test shall be in accordance with MIL-P-642.

Controlled drop: The controlled drop test shall be in accordance with MIL-P-642.

Solder lug terminals: The solder terminal for each contact shall be so shaped and located to accommodate two No. 23 AWG (21 strands of No. 36) wire.

Weight: The weight of the plug shall not exceed 16 grams.

Marking: The plug shall be marked with the part number and U-384/U.

Part or Identifying Number (PIN): M642/14-01.

Mating connector: M641/22.

Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extent of the changes.

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CONCLUDING MATERIAL

Custodians:

Army - CR
Navy - EC
Air Force - 11
DLA - CC

Preparing activity:
DLA - CC

(Project 5935-4426-003)

Review activities:

Army - AR, AV, CR4, MI
Navy - AS, MC
Air Force - 19, 99