

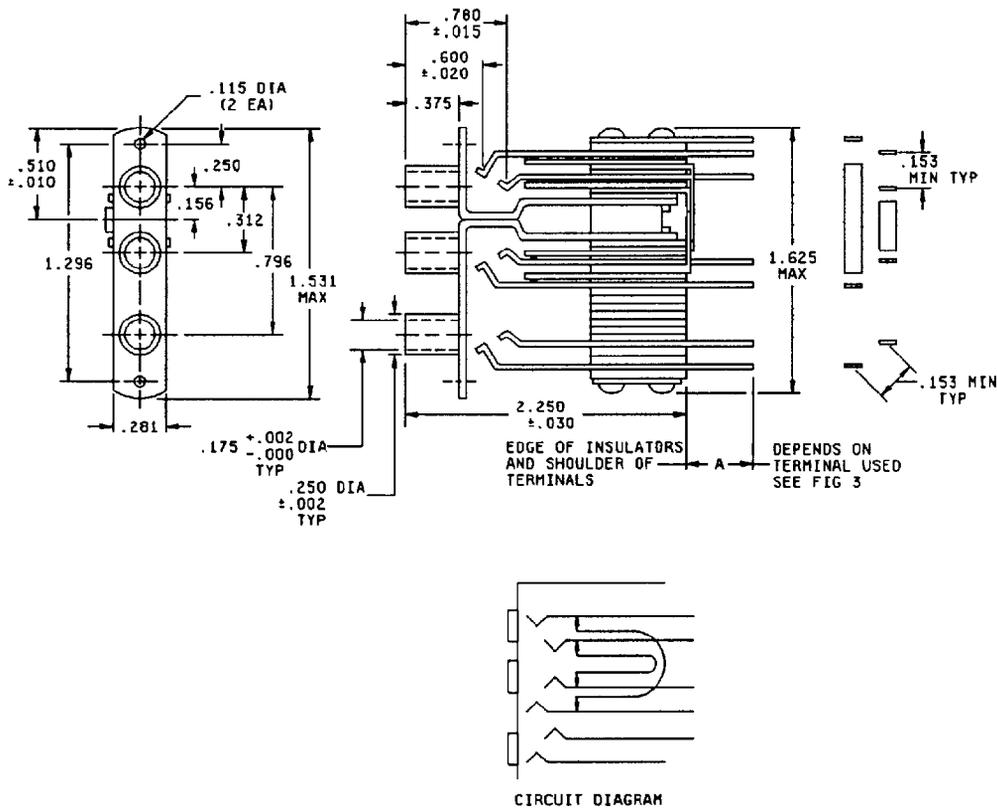
INCH-POUND
MIL-J-641/20A
12 November 1993
SUPERSEDING
MIL-J-641/20
26 February 1979

MILITARY SPECIFICATION SHEET

JACKS, (BANTAM) TELEPHONE, 3 CONDUCTOR, TRIPLE

This specification is approved for use by all Departments and Agencies of the Department of Defense.

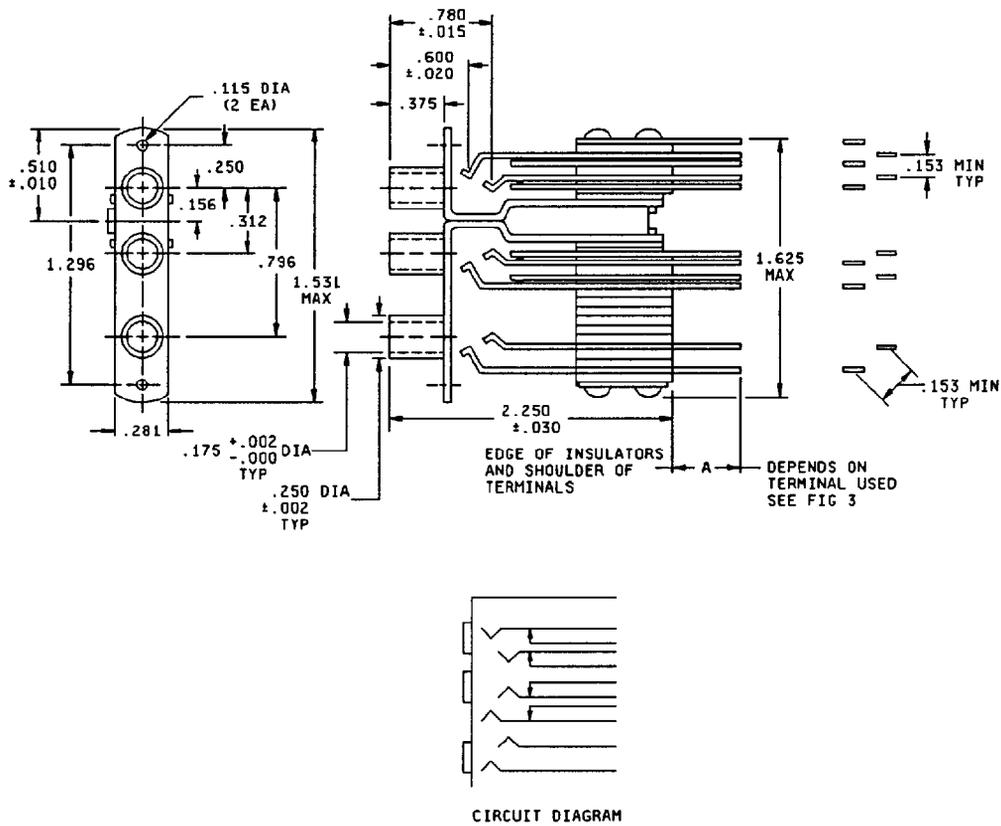
The requirements for acquiring the product described herein shall consist of this specification sheet and the issue of the following specification listed in that issue of the Department of Defense Index of Specifications and Standards (DODISS) specified in the solicitation: MIL-J-641.



Dash nos. -1 and -2 (4 breaks connected and monitor)

FIGURE 1. Dimensions and configurations.

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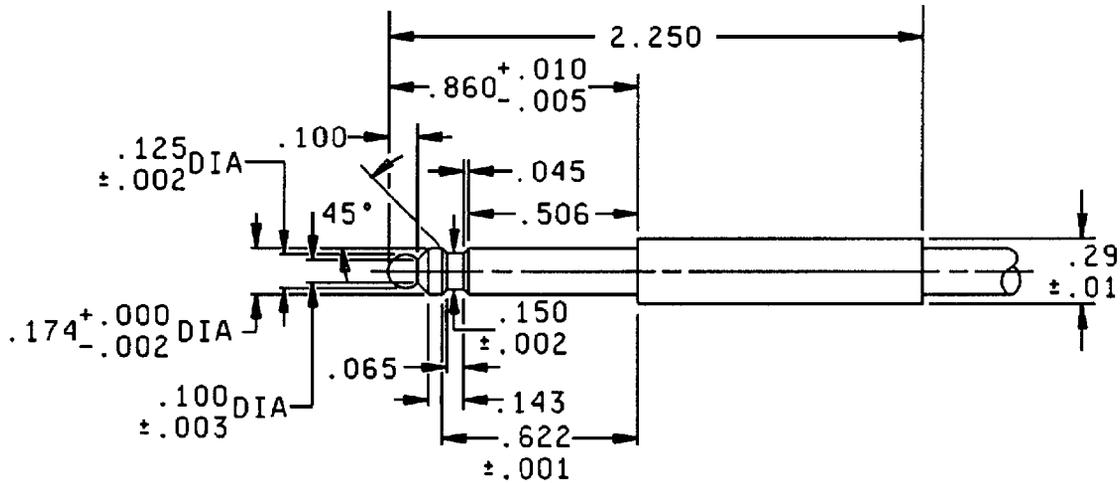
Dash nos. -5 and-6 (4 breaks and monitor)

Inches	mm	Inches	mm
.002	0.05	.250	6.35
.010	0.25	.279	7.09
.015	0.38	.281	7.14
.020	0.51	.375	9.52
.030	0.76	.578	14.68
.035	0.89	.600	15.24
.0625	1.588	.65	16.5
.153	3.89	.780	19.81
.175	4.44	2.250	57.15

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified, tolerance is ± 0.005 (0.13 mm).
4. All dimensions are after plating.
5. Wire shunts are permitted.
6. All undimensioned pictorial features are for reference purposes only.
7. For wirewrap type jacks, terminal and contact interconnecting jumpers shall not interfere with commonly used wirewrap tools.

FIGURE 1. Dimensions and configurations - Continued.

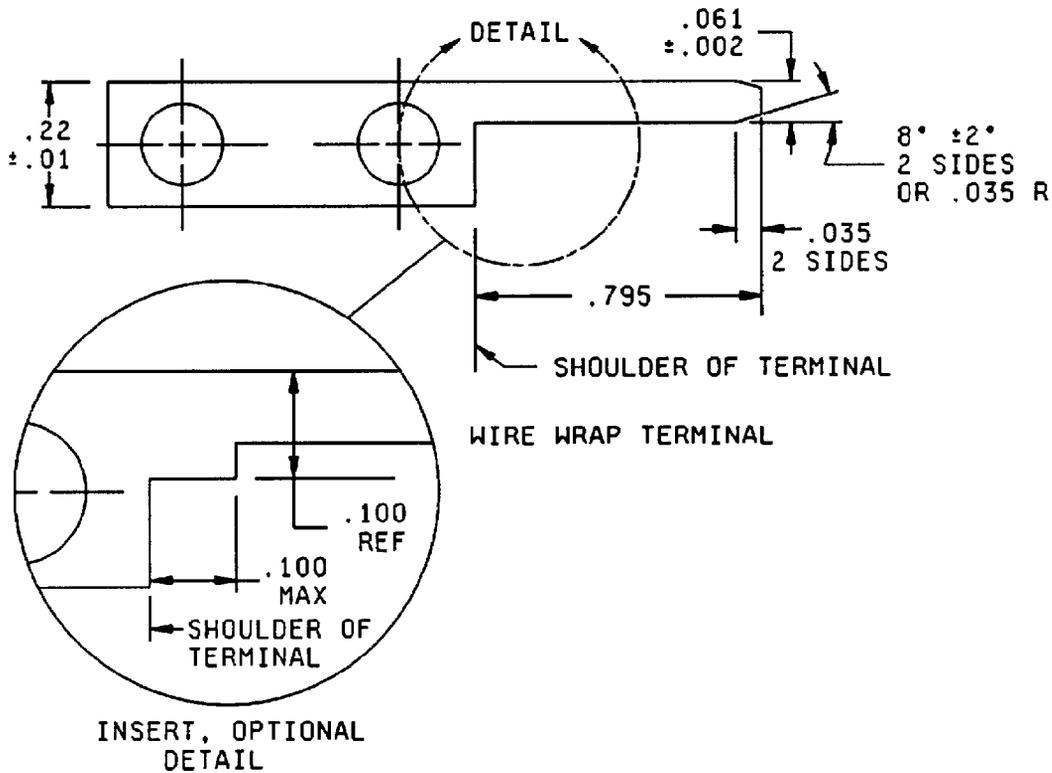


Inches	mm	Inches	mm	Inches	mm
.001	0.03	.065	1.65	.29	7.4
.002	0.05	.100	2.54	.506	12.85
.003	0.08	.125	3.18	.622	15.80
.005	0.13	.143	3.63	.860	21.84
.010	0.25	.150	3.81	2.250	57.15
.045	1.14	.174	4.42		

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified, tolerances are ± 0.005 (0.13 mm) and 1° on angles.
4. Finger shall be hardened to Rockwell C 60-62, polished, and then hard-chromium plated to .0003 inch (0.008 mm) maximum thickness.
5. All dimensions are after plating.
6. Concentricity shall be .003 (0.08 mm) total indicator reading.

FIGURE 2. Test plug TP-777.



Inches	mm	Inches	mm
.002	0.05	.100	2.54
.01	0.3	.22	5.6
.035	0.89	.795	20.19
.061	1.55		

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified, tolerance is ±.005 (0.13 mm).
4. Solder lug terminals (not shown) shall meet the requirements of MIL-J-641, 3.5.5, and the "A" dimension of figure 1 shall be .325 inch (8.26 mm) maximum.
5. All dimensions are after plating.

FIGURE 3. Terminals.

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REQUIREMENTS:

Dimensions and configurations: See figure 1.

Terminals: See figure 3 (wirewrap) or MIL-J-641 (solder lug).

Materials:

Springs: Nickel silver.

Contact: Palladium or gold alloy.

Insertion and withdrawal forces:

Insertion force: 7 pounds maximum.

Withdrawal force: 1.0 pound minimum; 7 pounds maximum.

Test plug: TP-777 (see figure 2).

Spring life: Test plug TP-777 shall be used.

Frame strength: Frame strength test is applicable. Load - 7 pounds maximum.

Terminal of tip contact spring shall be on the right side when terminals are viewed from the rear, with the jack in a position such that the contact spring pileup is on top of the jack frame

Cutout in the jack frame shall be positioned so that a minimum of .016-inch clearance exists between the tip of the TP-777 plug and the edge of the frame cutout at all times during insertion of the plug.

All terminals shall be stacked as shown on schematic (see figure 1).

Part or Identifying Number (PIN): M641/20 - (dash number from table I).

Mating plugs: See table II.

TABLE I. Dash numbers and characteristics.

Dash number	Connection	Mounting	Switching action	Terminal
-1	"	Double lug	4 breaks connected and monitor	Wirewrap
-2	"	"	4 breaks connected and monitor	Solder lug
-3	"	"	6 breaks	Wirewrap
-4	"	"	6 breaks	Solder lug
-5	"	"	4 breaks and monitor	Wirewrap
-6	"	"	4 breaks and monitor	Solder lug

TABLE II. Mating plugs.

Dash number	Mating plug
-1	M642/13-1, -2, -3, -4
-2	"
-3	"
-4	"
-5	"
-6	"

Revision letters are not used to denote changes due to the extensiveness of the changes.

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CONCLUDING MATERIAL

Custodians:

Army - CR
Navy - EC
Air Force - 85

Review activities:

Army - AR, AV, ME, MI
Navy - AS, MC, SH
Air Force - 17, 19, 99
DLA - ES

Preparing activity:

Army - CR

Agent:

DLA - ES

(Project 5935-3910-02)