

INCH-POUND

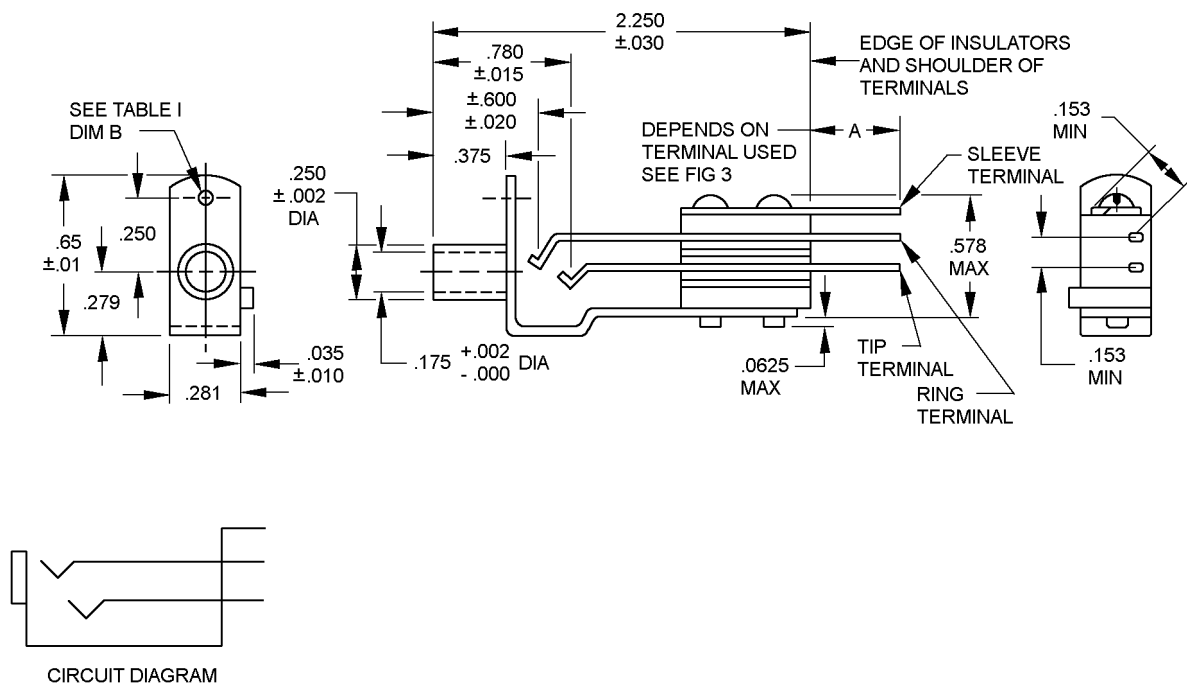
MIL-DTL-641/19F
15 November 2013
SUPERSEDING
MIL-J-641/19E
12 November 1993

DETAIL SPECIFICATION SHEET

JACKS, (BANTAM) TELEPHONE, 3 CONDUCTOR, SINGLE

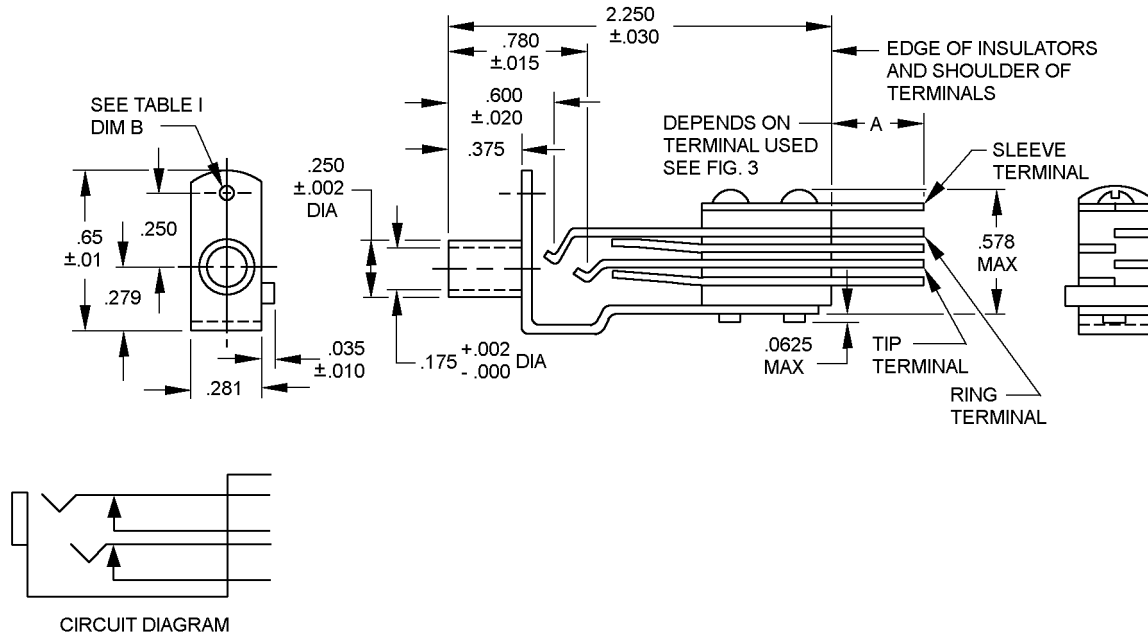
This specification is approved for use by all Departments and Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist of this specification sheet and MIL-DTL-641.

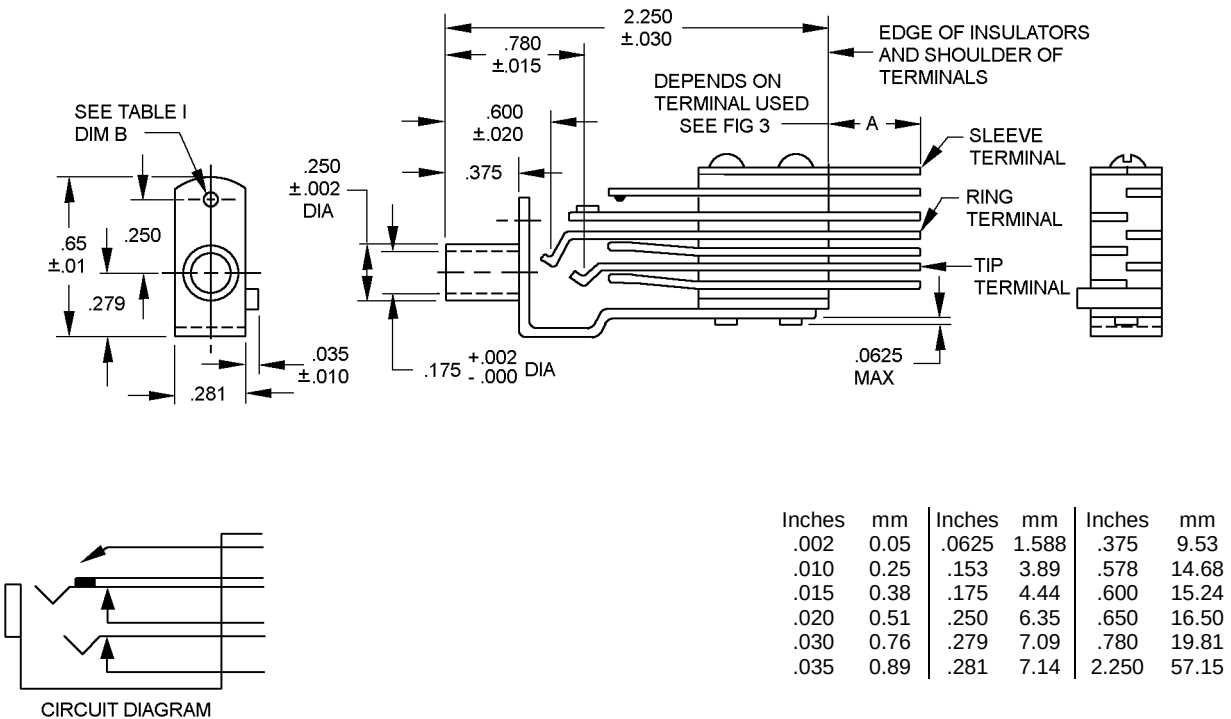


Dash numbers -1, -2, -5 and -6 (no breaks)

FIGURE 1. Dimensions and configurations.



Dash numbers -3, -4, -7 and -8 (2 breaks)

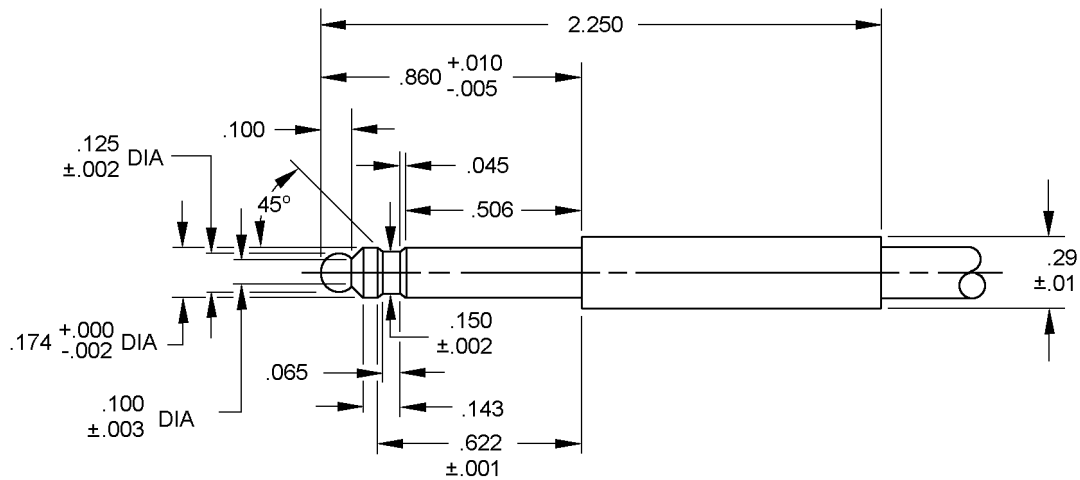


Dash numbers -9, -10, -11 and -12 (2 breaks, 1 make)

FIGURE 1. Dimensions and configurations – Continued.

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. All dimensions are after plating.
4. All undimensioned pictorial features are for reference purposes only.

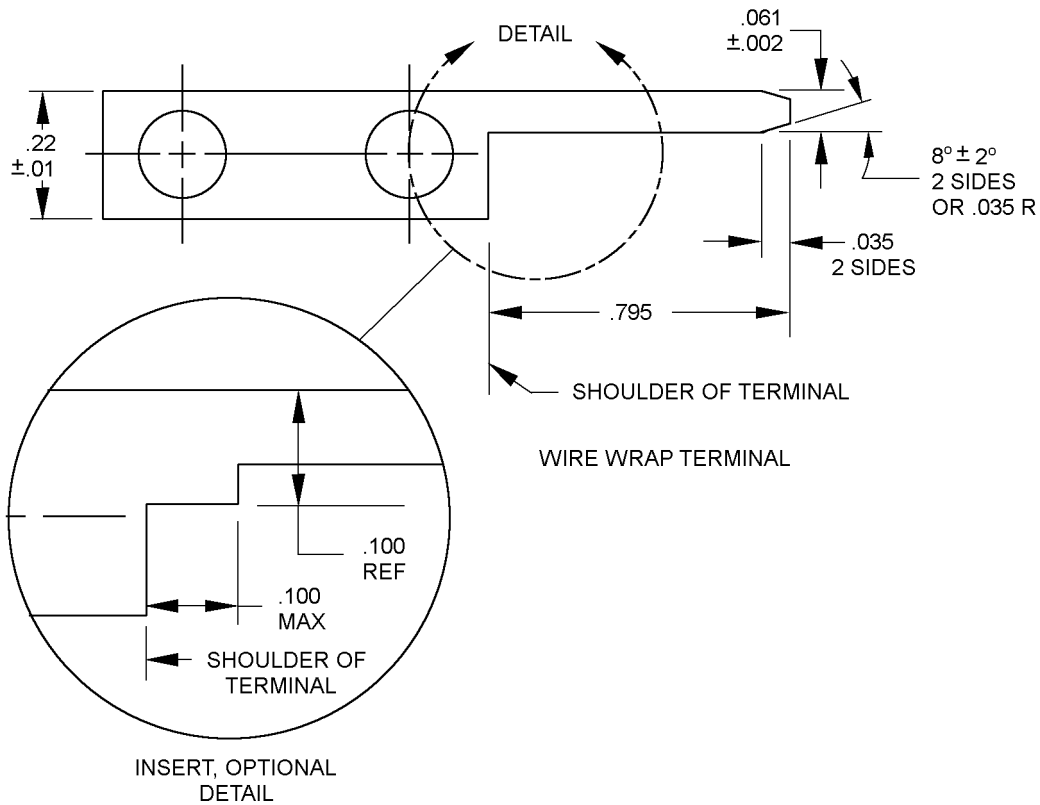
FIGURE 1. Dimensions and configurations – Continued.

Inches	mm	Inches	mm	Inches	mm
.001	0.03	.065	1.65	.290	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. All dimensions are after plating.
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. 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
.010	0.25	.220	5.60
.035	0.89	.795	20.19
.061	1.55		

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. All dimensions are after plating.
4. Solder lug terminals (not shown) shall meet the requirements of MIL-DTL-641, 3.5.5, and the "A" dimensions of figure 1 shall be $.325$ inch (8.26 mm) maximum.

FIGURE 3. Terminals.

REQUIREMENTS:

Dimensions and configuration: See figure 1.

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

Materials.

Springs: Nickel silver.

Contact: Palladium or gold alloy.

Insertion and withdraw forces shall be as follows.

Insertion force - 7 pounds (maximum).

Withdraw force - 1 pound (minimum).

- 7 pounds (maximum).

Test plug - TP777 (see figure 2).

Spring life test is applicable. Test plug TP777, shall be used.

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 (.4mm) 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)

Mating plugs. See table II.

Supersession data. See table III.

The Part or Identifying Number (PIN) consists of the letter M, the basic specification number, the specification sheet number, and a number for jack type. (see table I)

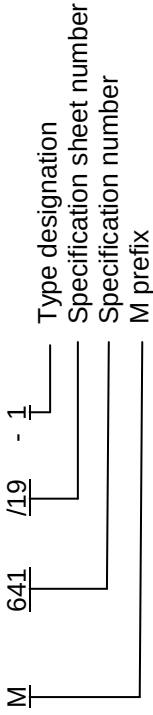


TABLE I. PIN.

Part number	Connection	Mounting	Switching action	Terminal	Dimension B
1	Tip, ring and sleeve	Single lug	None	Wirewrap	.115 diameter
2			None	Solder lug	
3			2 breaks	Wirewrap	
4			2 breaks	Solder lug	
5			None	Wirewrap	.099-48UNC-2B
6			None	Solder lug	
7			2 breaks	Wirewrap	
8			2 breaks	Solder lug	
9			2 breaks, one make	Wirewrap	.115 diameter
10			2 breaks, one make	Solder lug	
11			2 breaks, one make	Wirewrap	.099-48UNC-2B
12			2 breaks, one make	Solder lug	

1/ The hyphen indicates sequence.

TABLE II. Mating plugs.

Dash number	Mating plug
-1	M642/13-1, -2
-2	
-3	
-4	
-5	
-6	
-7	
-8	
-9	
-10	
-11	
-12	

TABLE III. Supersession data.

PIN M641/19	Manufacturer's PIN	Manufacturer's cage
-5	WTT-32BFM	82389
-6	TT-32BFM	82389
-7	WTT-34BFM	82389
-8	TT-34BFM	82389
-9	PJ-805W	70674
-10	PJ-805	70674

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

Referenced documents. This document references MIL-DTL-641.

CONCLUDING MATERIAL

Custodians:

Army – CR
Navy – EC
Air Force – 85
DLA - CC

Preparing activity:
DLA - CC

(Project 5935-2013-042)

Review activities:

Army – AR, AT, CR4, MI
Navy – AS, MC, OS, SH
Air Force – 11, 19, 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> .