

INCH-POUND

MIL-DTL-9177/1C

w/AMENDMENT 1

29 May 2015

SUPERSEDING

MIL-DTL-9177/1C (USAF)

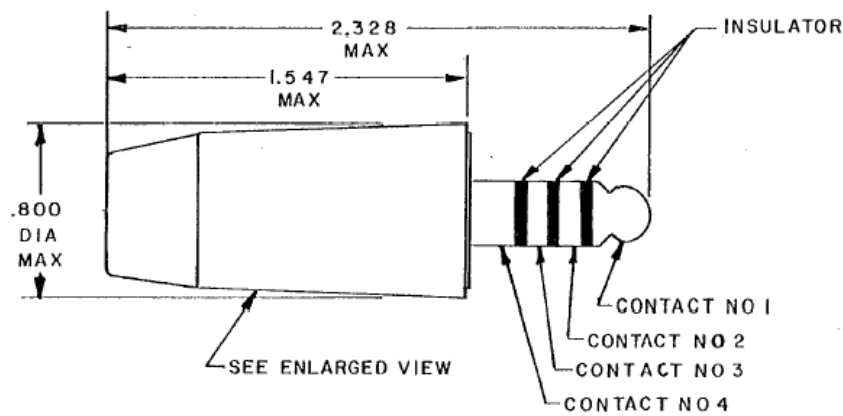
25 November 2002

## DETAIL SPECIFICATION SHEET

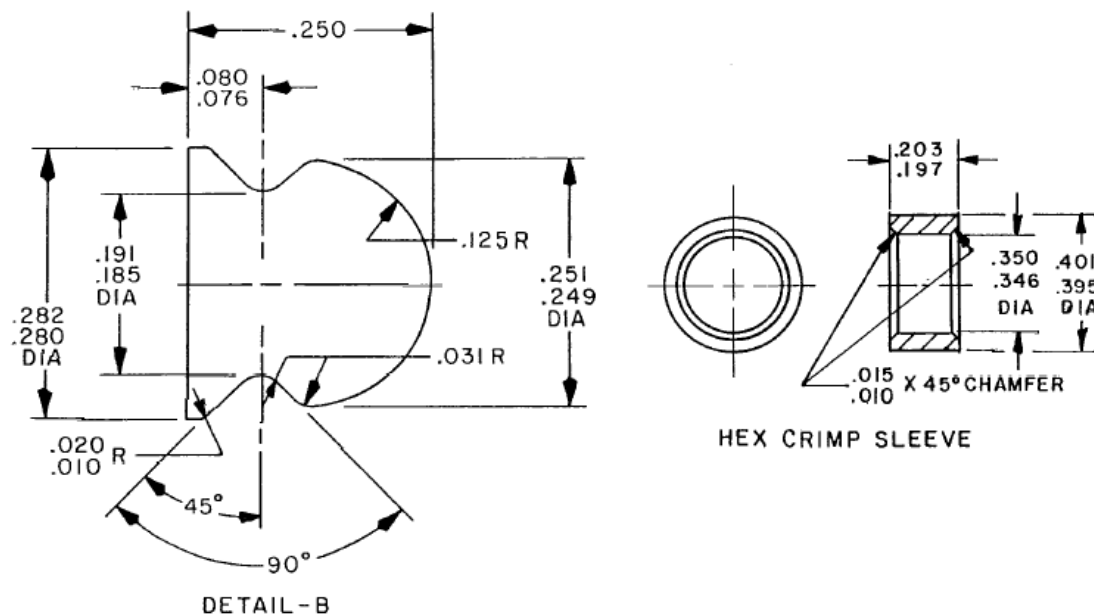
## CONNECTOR, AUDIO, AIRBORNE, PLUG, 4 CONTACT

This specification is approved for use by the Department of the Air Force and is available 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-DTL-9177.

FIGURE 1. Dimensions and configurations.



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Inches	mm	Inches	mm	Inches	mm	Inches	mm
.003	0.08	.125	3.18	.280	7.11	.421	10.69
.010	0.25	.156	3.96	.282	7.16	.475	12.06
.015	0.38	.171	4.34	.311	7.90	.516	13.11
.0156	0.396	.185	4.70	.313	7.95	.547	13.89
.020	0.51	.191	4.85	.318	8.08	.582	14.78
.031	0.79	.197	5.00	.346	8.79	.598	15.19
.0312	0.792	.203	5.16	.350	8.89	.672	17.07
.076	1.93	.249	6.32	.359	9.12	.703	17.86
.080	2.03	.250	6.35	.395	10.03	.800	20.32
.090	2.29	.251	6.38	.401	10.19	1.547	39.29
.094	2.39	.275	6.98	.407	10.34	2.328	59.13

## NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerance is  $\pm .005$  (0.13 mm).
4. All dimensions are after plating.
5. Undimensioned pictorial representations are for reference purposes only.

FIGURE 1. Dimensions and configurations – Continued.

## REQUIREMENTS:

Dimensions and configuration: See figure 1.

Crimp sleeve: The crimp sleeve requirement is applicable.

Torque: The torque test is applicable.

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Tool data: Use M22520/5-01 hand tool with crimp die M22520/5-29, M22520/5-35, or M22520/5-55.

Controlled drop: The controlled drop test is applicable.

Stack assembly: The stack assembly test is applicable.

Static load: The static load test is applicable.

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

Insertion force: 13 pounds maximum.

Withdrawal force 6 pounds minimum, 10 pounds maximum.

Body, insulation and shell: Materials shall have electrical and non-electrical properties appropriate for their intended use in electrical components. Optional materials are as follows:

Body and insulation:

- a. Polyvinylidene fluoride.
- b. Glass-filled polycarbonates in accordance with MIL-P-81390.
- c. Glass-filled nylon in accordance with ASTM D4066.

Shell:

- a. Glass-filled nylon in accordance with ASTM D4066.
- b. Nylon zytel ST801.
- c. Polycarbonate in accordance with ASTM D3935.

Cable retention: The cable retention test is applicable. The test cable shall be WF-14/U. The force shall be 30 pounds minimum.

Specified mating connector: For testing, the specified mating connector shall be M9177/3-1.

Marking: Identification marking shall include both U-93A/U and the M9177/1-1 numbers.

Mating connectors: M9177/3-1, M9177/4-1, and M9177/5-1.

Part or Identifying Number (PIN): M9177/1 - 1.

Supersession data: M9177/1-1 supersedes U-93A/U.

Amendment notations. The margins of this specification are marked with vertical lines to indicate modifications generated by this amendment. 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.

Referenced documents. In addition to MIL-DTL-9177, this document references the following:

MIL-DTL-9177/3  
MIL-DTL-9177/4  
MIL-DTL-9177/5  
MIL-C-22520/5  
MIL-P-81390  
ASTM-D3935  
ASTM-D4066

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CONCLUDING MATERIAL

Custodians:  
Air Force – 85  
DLA - CC

Preparing Activity:  
DLA - CC

Review activities:  
Air Force – 19, 99

(Project 5935-2015-149)

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/>.