

INCH-POUND

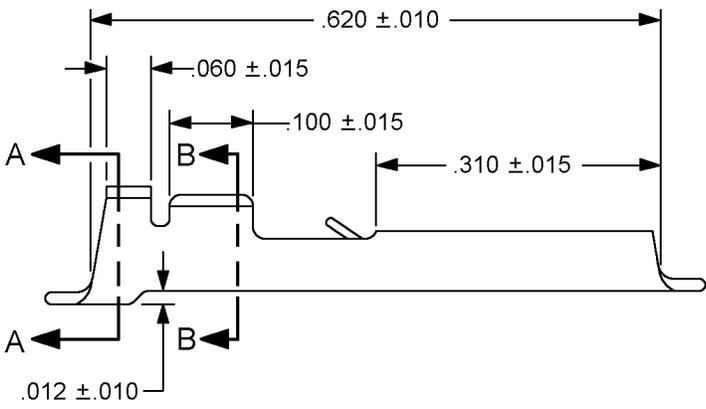
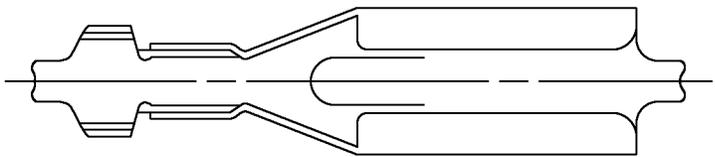
MIL-DTL-21097/16F  
w/AMENDMENT 1  
4 March 2016  
SUPERSEDING  
MIL-DTL-21097/16F  
18 August 2005

DETAIL SPECIFICATION SHEET

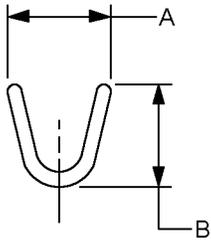
CONNECTORS, ELECTRICAL, PRINTED WIRING BOARD  
CONTACT, CRIMP, REMOVABLE, TYPE CR

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

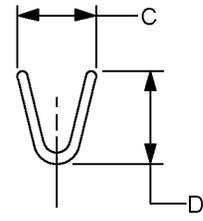
The requirements for acquiring the product described herein shall consist of this specification sheet and MIL-DTL-21097.



Inches	mm
.010	.25
.012	.30
.015	.38
.060	1.52
.100	2.54
.310	7.87
.620	15.75



SECTION A - A



SECTION B - B

FIGURE 1. Crimp type contact.



MIL-DTL-21097/16F  
w/AMENDMENT 1

NOTES:

1. Dimensions are in inches.
2. Unless otherwise specified, tolerance is  $\pm .015$  (.38 mm) for three place decimals.
3. Metric equivalents are given for information only.
4. Field repair use contact specified on slash sheet MIL-DTL-21097/17.

FIGURE 1. Crimp type contact - Continued.

REQUIREMENTS

Dimensions and configuration: See figure 1 and table I.

Use: With connectors conforming to MIL-DTL-21907/13.

Individual contact engagement and separation forces: Dimensions of the gage shall be in accordance with MIL-DTL-21097/19.

Finish: Gold plating in accordance with MIL-DTL-45204, type II, grade C, class 1, or equivalent as approved by the qualifying and preparing activities, over nickel plating in accordance with SAE-AMS- QQ-N-290, class 2, 30 to 150 microinches.

Contacts shall be crimped in accordance with manufacturer's recommended tooling.

Removal tool: M81969/6-01

Part or Identifying Number (PIN): M21097/16-(dash number from table I).

TABLE I. Contact – crimp type.

Dash number	Dimensions (inches) <sup>1/</sup>				Wire size	Insulation diameter
	A $\pm 0.015$ (0.38)	B $\pm 0.015$ (0.38)	C $\pm 0.15$ (0.38)	D $\pm 0.15$ (0.38)		
01	.100 (2.54)	.090 (2.29)	.075 (1.91)	.060 (1.52)	#28 - #24 AWG	.030 - .060 (0.76 - 1.52)
02	.125 (3.18)	.125 (3.18)	.075 (1.91)	.060 (1.52)	#28 - #24 AWG	.050 - .078 (1.27 - 1.98)
03	.120 (3.05)	.111 (2.82)	.090 (2.29)	.080 (2.03)	#24 - #20 AWG	.040 - .080 (1.02 - 2.03)
04	.165 (4.19)	.130 (3.30)	.120 (3.05)	.088 (2.24)	2-#22 or 2-#20 or 1-#18 AWG	2-.045-.072 or (1.14-1.83) 1-.075-.095 (1.91-2.41)

<sup>1/</sup> Millimeters are in parentheses.

MIL-DTL-21097/16F  
w/AMENDMENT 1

Changes from previous issue. The margins of this specification are marked with vertical lines to indicate where changes from the previous issue were made. 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 and relationship to the previous issue.

Referenced documents. In addition to MIL-DTL-21097, this document references the following:

MIL-DTL-21097/13  
MIL-DTL-21097/17  
MIL-DTL-21097/19  
MIL-DTL-45204  
SAE-AMS-QQ-N-290

CONCLUDING MATERIALS

Custodians:

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

Preparing activity:

DLA - CC

Project: (5935-2016-013)

Review activities:

Army – AR, AT, CR4, MI  
Navy – AS, MC, OS  
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/>.