

INCH-POUND

MIL-DTL-21097/14F
w/AMENDMENT 2
4 January 2022
SUPERSEDING
MIL-DTL-21097/14F
w/AMENDMENT 1
1 February 2017

DETAIL SPECIFICATION SHEET

CONNECTORS, ELECTRICAL, PRINTED WIRING BOARD MALE ADAPTER, CONTACT SPACING: 0.200, ALTERNATE DUAL ROW, TYPE CS, BLADE CONTACT (MOUNTING PROVISION A)

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.

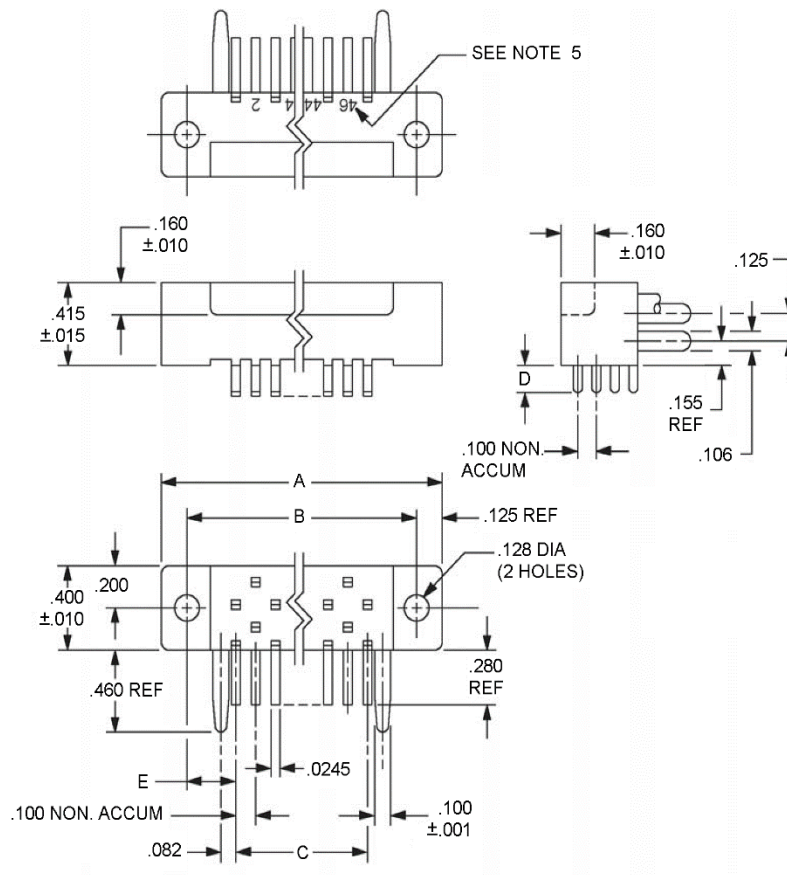


FIGURE 1. Blade contact type CS alternate dual row contacts.

AMSC N/A
DISTRIBUTION STATEMENT A. Approved for public release. Distribution is unlimited.

FSC 5935



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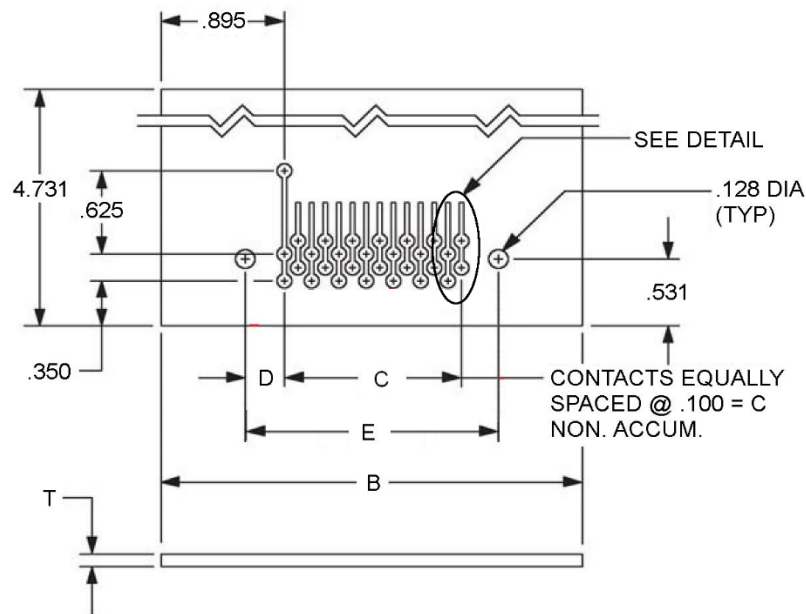
Inches	mm	Inches	mm
.001	0.03	.128	3.25
.010	0.25	.155	3.94
.015	0.38	.160	4.06
.0245	0.622	.200	5.08
.082	2.08	.280	7.11
.100	2.54	.400	10.16
.106	2.69	.415	10.54
.125	3.18	.460	11.68

NOTES:

1. Dimensions are in inches.
2. Unless otherwise specified, tolerance is $\pm .005$ (.13 mm) for three place decimals.
3. Metric equivalents are given for information only.
4. See table I for dimensions.
5. All even numbered contacts to be identified with .047 (1.19 mm) minimum high characters, as shown.

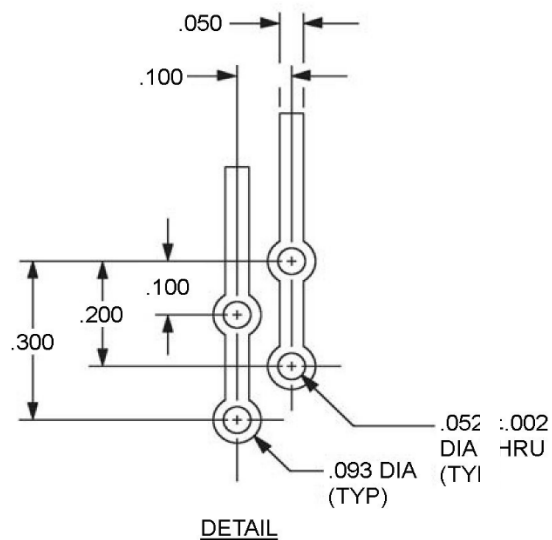
FIGURE 1. Blade contact type CS alternate dual row contacts - Continued.

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Printed wiring board	
Size	T dim
2	.062 (1.57)
3	.093 (2.36)
4	.125 (3.18)

Inches	mm	Inches	mm
.002	0.05	.300	7.62
.050	1.27	.350	8.89
.052	1.32	.531	13.49
.093	2.36	.625	15.88
.100	2.54	.895	22.73
.128	3.25	4.731	120.17
.200	5.08		



NOTES:

1. Dimensions are in inches.
2. Unless otherwise specified, tolerance is $\pm .005$ (.13 mm) for three-place decimals.
3. Metric equivalents are given for information only.
4. See table II for dimensions B, C, D, and E.

2. Printed wiring test board.

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TABLE I. Connector, electrical, male adapter, type CS, class b, mounting provision A.

Dash number	Style	Size	Dimensions (inches) ^{1/}				
			A (maximum)	B ±0.007 (0.18)	C	D ±0.010 (0.25)	E
01	17	2				0.120 (3.05)	
02	17	3	2.390 (60.71)	2.130 (54.10)	1.600 (40.64)	0.152 (3.86)	0.265 (6.73)
03	17	4				0.183 (4.65)	
04	23	2				0.120 (3.05)	
05	23	3	2.990 (75.95)	2.730 (69.34)	2.200 (55.88)	0.152 (3.86)	0.265 (6.73)
06	23	4				0.183 (4.65)	
07	29	2				0.120 (3.05)	
08	29	3	3.590 (91.19)	3.330 (84.58)	2.800 (71.12)	0.152 (3.86)	0.265 (6.73)
09	29	4				0.183 (4.65)	
10	35	2				0.120 (3.05)	
11	35	3	4.190 (106.43)	3.930 (99.82)	3.400 (86.36)	0.152 (3.86)	0.265 (6.73)
12	35	4				0.183 (4.65)	
13	41	2				0.120 (3.05)	
14	41	3	4.790 (121.67)	4.530 (115.06)	4.000 (101.60)	0.152 (3.86)	0.265 (6.73)
15	41	4				0.183 (4.65)	
16	47	2				0.120 (3.05)	
17	47	3	5.623 (142.82)	5.363 (136.22)	4.600 (116.84)	0.152 (3.86)	0.382 (9.70)
18	47	4				0.183 (4.65)	

^{1/} Dimensions are in inches. Metric equivalents are given for information only.

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TABLE II. Printed wiring test board.

Style	Dimensions (inches) ^{1/}			
	B	C	D	E
17	3.390 (86.11)	1.600 (40.64)	.265 (6.73)	2.130 (54.10)
23	3.990 (101.35)	2.200 (55.88)	.265 (6.73)	2.730 (69.34)
29	4.590 (116.59)	2.800 (71.12)	.265 (6.73)	3.330 (84.58)
35	5.190 (131.83)	3.400 (86.36)	.265 (6.73)	3.930 (99.82)
41	5.790 (147.07)	4.000 (101.60)	.265 (6.73)	4.530 (115.06)
47	6.390 (162.31)	4.600 (116.84)	.382 (9.70)	5.363 (136.22)

^{1/} Millimeters are in parentheses.

REQUIREMENTS

Dimensions and configurations: See figure 1, table I, and table II.

Contacts material: Gilding metal brass in accordance with copper alloy number UNS C21000 of ASTM B36/B36M.

Mating receptacle: Shall be in accordance with MIL-DTL-21097/13.

Printed wiring test board: Two-ounce copper one side only, gold plated as specified in IPC-2221. Board shall conform to IPC-2221 and MIL-PRF-31032. See figure 2 for the applicable connector size.

Finish: Shall be in accordance with MIL-DTL-21097.

Part or Identifying Number (PIN): M21097/14-(dash number from table I).

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

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

MIL-DTL-21097/13
MIL-PRF-31032
ASTM B36/B36M
IPC-2221

CONCLUDING MATERIALS

Custodians:

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

Preparing activity:
DLA - CC

(Project 5935-2022-017)

Review activities:

Army – AR, AT, CR4, MI
Navy – AS, MC, OS

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