



## DEFENSE LOGISTICS AGENCY

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IN REPLY  
REFER TO DSCC -VAI (Mr. Antonelli/ (DSN 850) 614-692-0576/ra)

April 12, 2004

SUBJECT: Initial Draft of MIL-DTL-21097/2F, /3F, /11J, /13C, /14F, /15G, /16F, /17E, /18D, /19D, /21B, /4F, /5F Connectors, Electrical, Printed Wiring Boards, General Purpose, General specification for, Project number 5935-4505-001-013.

Military/Industry Distribution

The initial drafts for the subject documents, which are being revised for conversion to detail status in accordance with acquisition reform and to replace obsolete references, has been placed on the DSCC-VAI website for you to review and comment. The website address is;

<http://www.dsccl.dla.mil/Programs/Milspec/DocSearch.asp>

If these documents are of interest to you, please provide your comments or suggested changes by e-mail to [ralph.antonelli@dlam.mil](mailto:ralph.antonelli@dlam.mil) or by fax at (614) 692-6940. You may also send comments or suggested changes on Compilation of Comments form 155, shown at the end of the draft documents posted on the web.

Comments or suggested changes that are not editorial in nature should include justification. Industrial activities should indicate whether they are commenting from the standpoint of a "User" or "Manufacturer." Military review activities should forward their comments to their custodians in sufficient time to allow for consolidating the departmental reply. Military departments must identify their comments as either "Essential" or "Suggested." Essential comments, which must be accepted or withdrawn, should be supported by test data unless they obviously require no data.

Please return comments to this Center no later than 45 days from the date of this letter. Any further coordination concerning this document will be circulated only to firms and organizations that furnish comments or reply that they have an interest.

If you do not have access to the world wide web or you have problems downloading this document, please notify Mr. Ralph Antonelli at either the above e-mail address or fax number or by telephone at (614) 692-0576.

Sincerely,

/ signed /

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Chief  
Interconnection Devices Team

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INCH-POUND

MIL-DTL-21097/11J

DRAFT

SUPERSEDING

MIL-C-21097/11H

24 April 1985

MILITARY SPECIFICATION SHEET

CONNECTORS, ELECTRICAL, PRINTED WIRING BOARD  
KEYS, POLARIZING

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.

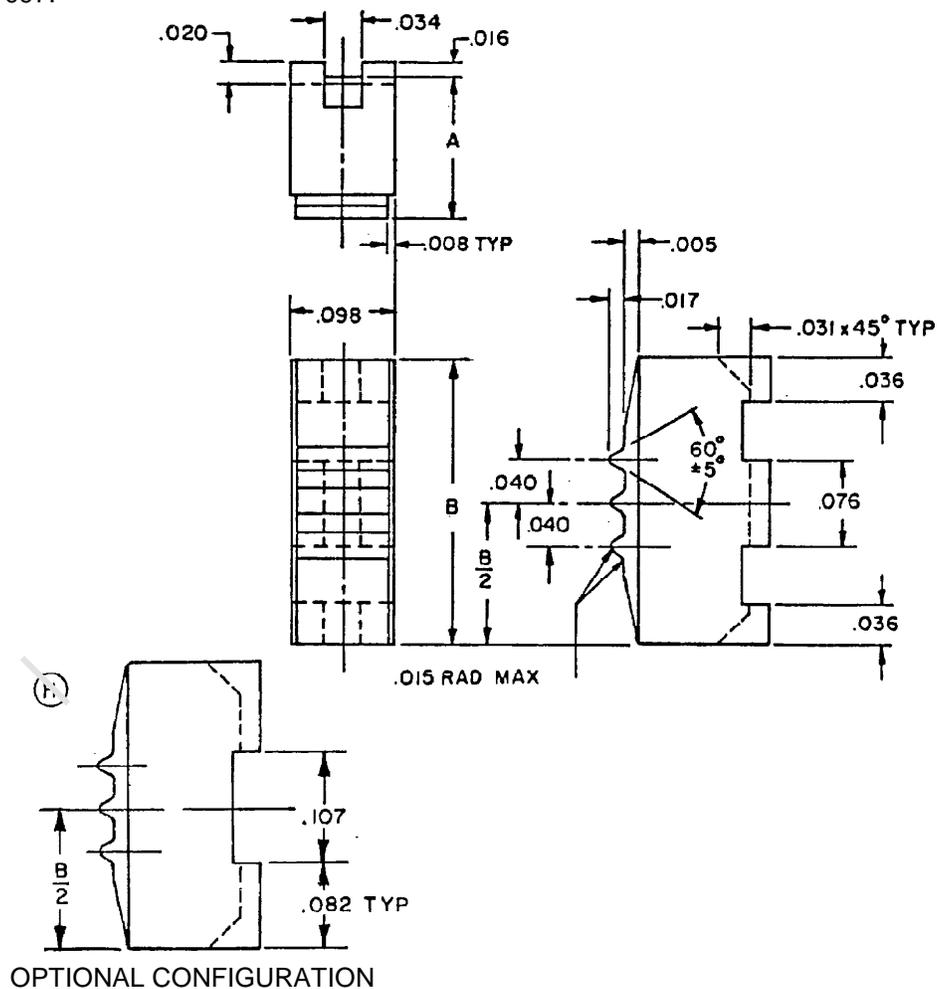


FIGURE 1. Polarizing keys for type CR connector.

MIL-DTL-21097/11J

<u>1/</u> Dash number	Size	Dimensions	
		A	B ± .010 (± .25)
03	2	+ .004 .109 - .003 (+.10) (2.77) (-.08)	.271 (6.88)
04	3	+ .005 .135 - .003 (+.13) (3.43) (-.08)	.271 (6.88)

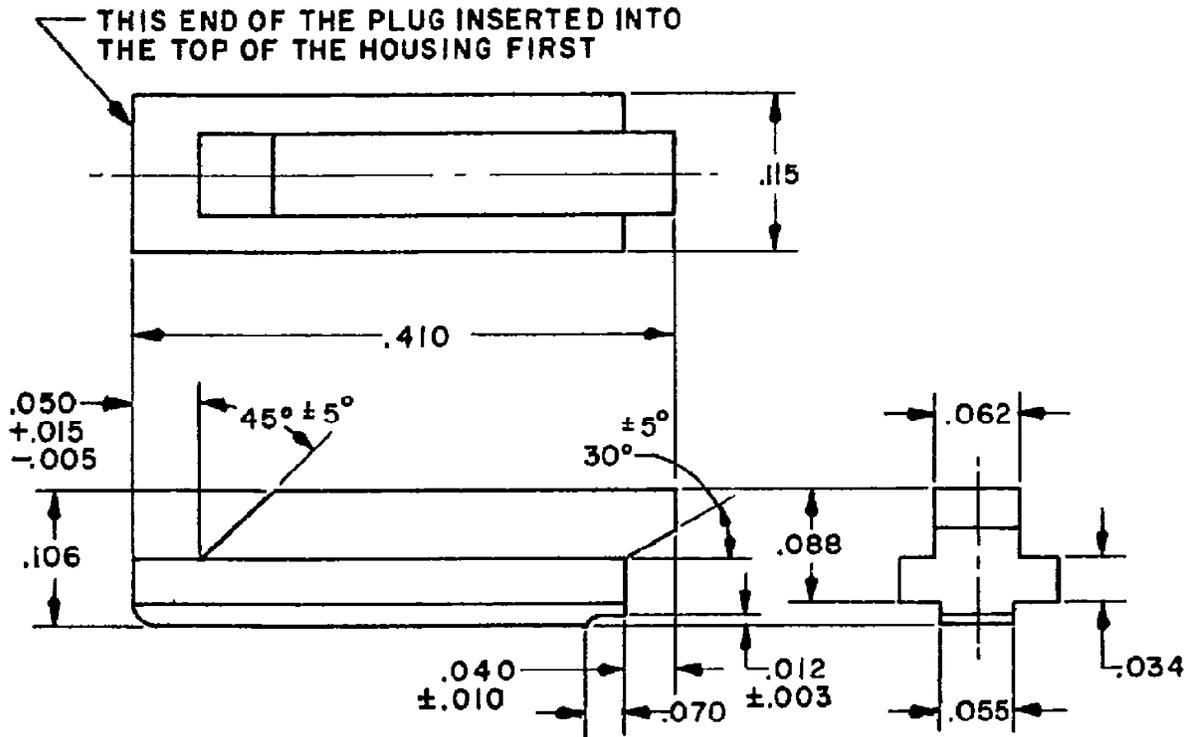
1/ Dash numbers 01, 02, 05 and 06 have been deleted from this specification sheet.

Inches	mm	Inches	mm
.005	0.13	.031	0.79
.008	0.20	.034	0.86
.010	0.25	.036	0.91
.015	0.38	.040	1.02
.016	0.41	.076	1.93
.017	0.43	.082	2.08
.020	0.51	.098	2.49
		.107	2.72

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are in parentheses.
3. Metric equivalents are given for general information only.
4. Unless otherwise specified, tolerance is ± .010 (0.25 mm) three place decimals.
5. Polarizing key is for use with connectors conforming to MIL-C-21097/2 or /4.
6. Material: Polyamide, type I, ASTM D4066; FED-STD-595, color 23690, or natural (clear).

FIGURE 1. Polarizing keys for type CR connector – Continued.

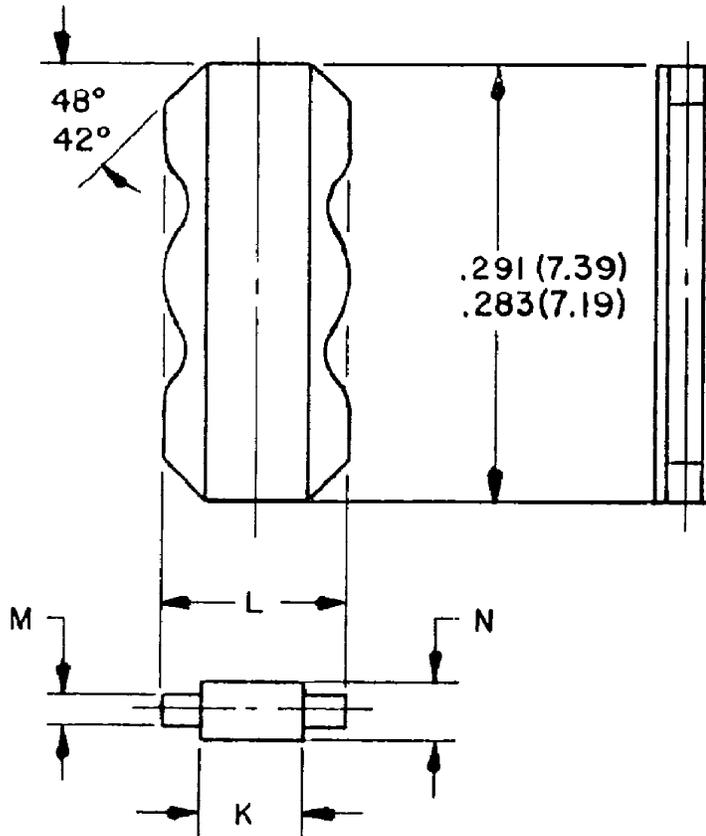


Inches	mm	Inches	mm
.003	0.08	.050	1.27
.005	0.13	.055	1.40
.010	0.25	.062	1.57
.012	0.30	.070	1.78
.015	0.38	.088	2.24
.034	0.86	.106	2.69
.040	1.02	.115	2.92
		.410	10.41

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) for three place decimals.
4. Polarizing key is for use with connectors conforming to MIL-C-21097/13.
5. Material: Polyamide, class I, ASTM D4066; FED-STD-595, color 23690, or natural (clear).

FIGURE 2. Polarizing key, part no. M21097/11-07, for type CR connectors.



Dash number	Size	Dimensions			
		K	L	M	N
08	2	.070 (1.78)	.122 (3.10)	.022 (0.56)	.042 (1.07)
		.066 (1.68)	.118 (3.00)	.020 (0.51)	.036 (0.91)
09	3	.102 (2.59)	.154 (3.91)	.022 (0.56)	.042 (1.07)
		.098 (2.49)	.150 (3.81)	.020 (0.51)	.036 (0.91)
10	4	.133 (3.38)	.185 (4.70)	.022 (0.56)	.042 (1.07)
		.129 (3.28)	.181 (4.60)	.020 (0.51)	.036 (0.91)

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are in parentheses.
3. Metric equivalents are given for general information only.
4. Serrations are permitted in this area provided the outer extremities are within tolerance limits.
5. Polarizing key is for use with connectors conforming to MIL-C-21097/21 types A and AD.
6. Material: Polyamide, type I, ASTM D4066; FED-STD-595, color 23690, or natural (clear).

FIGURE 3. Polarizing key, between contact positions, for types A and AD connectors, part numbers M21097/11-08, -09 and -10.

MIL-DTL-21097/11J

REQUIREMENTS:

Dimensions and configuration: See figures 1, 2, and 3.

Material: See figures 1, 2, and 3.

Part or identifying number (PIN): M21097/11-(dash number from figures 1, 2, and 3).

NOTES

Referenced documents. In addition to MIL-DTL-21097, this specification sheet references the following documents.

FED-STD-595  
MIL-DTL-21097/2  
MIL-DTL-21097/4  
MIL-DTL-21097/13  
MIL-DTL 21097/21  
ASTM D4066

CONCLUDING MATERIALS

Custodians:

Army – CR  
Navy – EC  
Air Force – 11  
DLA – CC

Preparing activity:  
DLA - CC

(Project 5935-4505-003)

Review activities:

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

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 <http://www.dodssp.daps.mil>.

PROJECT NUMBER		COMPILATION OF COMMENTS		COMMENT NUMBER
DOCUMENT		COMMENTOR IND NAME OR CODE	[ ] MFR [ ] USER [ ] IND ASSOC	
DOD USE ONLY	DEPT	[ ] A [ ] N [ ] AF [ ] DLA [ ] NSA [ ] CNDN [ ] NASA	[ ] ESSENTIAL [ ] SUGGESTED	
RECOMMENDED DISPOSITION OF COMMENT:		[ ] ACCEPTANCE [ ] NON-ACCEPTED-SEE REASON [ ] WITHDRAW [ ] MODIFY [ ] DISCUSS		
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DOCUMENT		COMMENTOR IND NAME OR CODE	[ ] MFR [ ] USER [ ] IND ASSOC	
DOD USE ONLY	DEPT	[ ] A [ ] N [ ] AF [ ] DLA [ ] NSA [ ] CNDN [ ] NASA	[ ] ESSENTIAL [ ] SUGGESTED	
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