



DEFENSE LOGISTICS AGENCY

DEFENSE SUPPLY CENTER, COLUMBUS
POST OFFICE BOX 3990
COLUMBUS, OHIO 43218-3990

IN REPLY

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

August 5, 2004

SUBJECT: Initial Drafts of MIL-DTL-55302/166B, /167B, /168B, /169B, /170B and /171B, Connectors, Printed Circuit Subassembly and Accessories, Low Mating Force, Male and Female Brush, Various, Polarized for Multilayered Printed Wiring Boards (.100 inch spacing), Project number 5935-4553-000 through 4558-000.

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, have 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@dla.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 Essential comments, which must be accepted or withdrawn, should be supported by test data unless they obviously require no data.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 /

RICHARD L. TAYLOR
Chief
Interconnection Devices Team

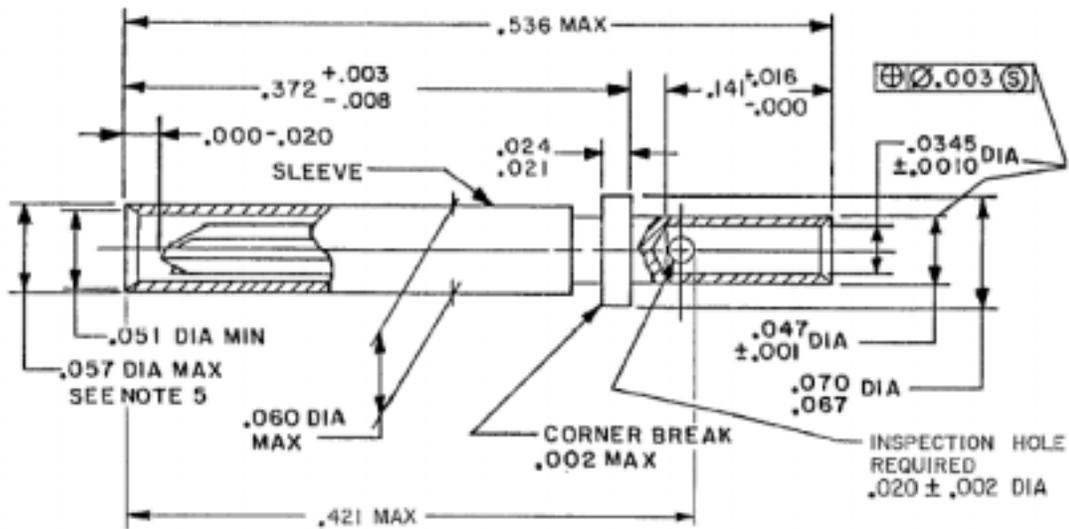
cc:
VQP (Tony Carnevlæ)
CDAB (Dave Barman)
AF -11 (Jim Arnold - 88 OSS/OSE)

DETAIL SPECIFICATION SHEET

CONNECTORS, PRINTED CIRCUIT SUBASSEMBLY AND ACCESSORIES:
 LOW MATING FORCE, CONTACT BRUSH

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

The complete requirements for acquiring the connectors described herein shall consist of this specification sheet and the latest issue of MIL-DTL-55302.



Inches	mm	Inches	mm	Inches	mm
.000	0.00	.020	0.51	.060	1.52
.0010	0.025	.021	0.53	.067	1.70
.001	0.03	.024	0.61	.070	1.78
.002	0.05	.0345	0.876	.141	3.58
.003	0.08	.047	1.19	.372	9.45
.008	.020	.051	1.29	.421	10.69
.016	0.41	.057	1.45	.536	13.61

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Crimp well accommodates size 22 to 28 AWG wire and M22520/2-01 crimp tool with Daniels Locator K743, or equivalent.
4. Use with connector MIL-DTL-55302/169.
5. Applies to within .020 of entry minimum.

FIGURE 1. Contact, brush, crimp removable..

MIL-DTL-55302/171B

REQUIREMENTS:

Dimensions and configuration: See figure 1.

Contacts: Each contact shall contain 7 brush wires with a tolerance limit of ± 1 ~~providing the average outgoing quality limit (AOQL) at each tolerance extreme does not exceed 1 percent.~~ Each brush wire diameter shall be .0073 to .0085 inch (0.185 mm to 0.216 mm).

Material:

Body: In accordance with MIL-C-55302 or approved equivalent.

Sleeve: Stainless steel in accordance with MIL-C-55302.

Plating: The contact termination plating shall be in accordance with table III. Brush wire plating shall be gold in accordance with ASTM B488, type II, code C, class 1.27 over nickel in accordance with SAE-AMS-QQ-N-290. Cut ends or brush wires need not be plated.

Part or identifying number (PIN): M55302/171- (contact plating indicator from table I).

TABLE I. Contact tail plating.

Indicator	Plating
1	Tin lead in accordance with SAE-AMS-MIL-P-81728, 50 to 70 percent tin, .0001 minimum thick over copper plating
2	Gold in accordance with ASTM B488, type II, code C, class 0.51 over nickel per SAE-AMS-QQ-N-290.

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 last previous issue.

Referenced documents. In addition to MIL-DTL-55302, this document references the following:

- MIL-DTL-55302/169
- MIL-C-22520/2
- ASTM B488
- SAE-AMS-QQ-N-290
- SAE-AMS-P-81728

MIL-DTL-55302/171B

CONCLUDING MATERIAL

Custodian:
Air Force – 11
DLA – CC

Preparing activity:
DLA - CC

(Project 5935-4458-000)

Review activities:
Air Force – 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 <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		
FINAL DISPOSITON OF COMMENT:		[] ACCEPTED [] NON-ACCEPTED [] WITHDRAW [] MODIFY		

DESC FORM 155

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		
FINAL DISPOSITON OF COMMENT:		[] ACCEPTED [] NON-ACCEPTED [] WITHDRAW [] MODIFY		

DESC FORM 155