

INCH-POUND

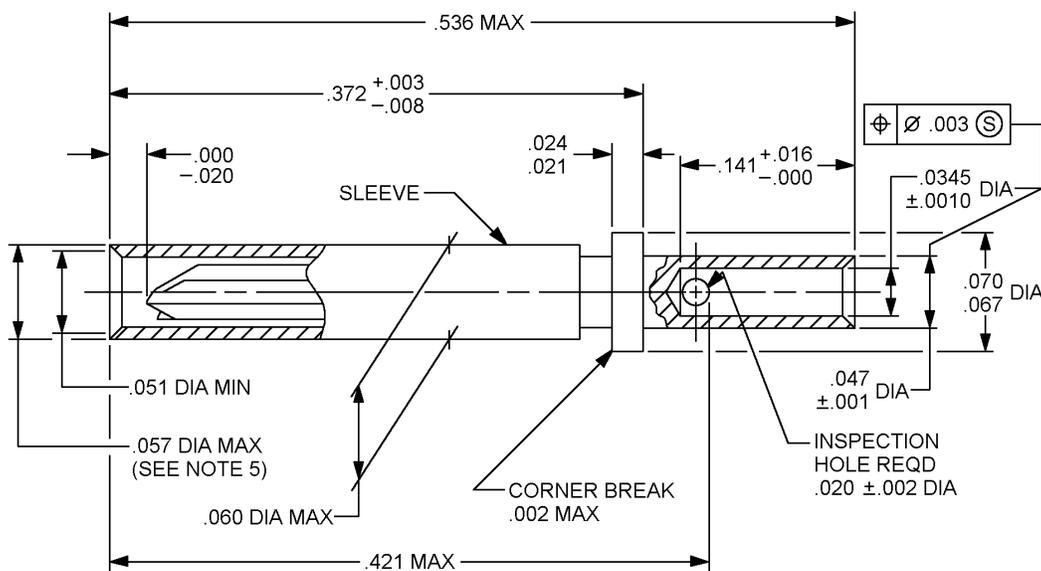
MIL-DTL-55302/171B
w/AMENDMENT 1
15 April 2013
SUPERSEDING
MIL-DTL-55302/171B
13 May 2005

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 requirements for acquiring the product described herein shall consist of this specification sheet and 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	0.20	.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 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.

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REQUIREMENTS

Dimensions and configuration: See figure 1.

Contacts: Each contact shall contain 7 brush wires with a tolerance limit of ± 1 . Each brush wire diameter shall be .0073 to .0085 inch (0.185 mm to 0.216 mm).

Material:

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

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

Plating: The contact termination plating shall be in accordance with table I. Brush wire plating shall be gold in accordance with MIL-DTL-45204, class 1, type II, grade C or equivalent 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-P-81728, 50 to 70 percent tin, .0001 minimum thick over copper plating.
2	Gold in accordance with MIL-DTL-45204, type II, grade C, class 00 or equivalent, over nickel in accordance SAE-AMS-QQ-N-290.

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-55302, this document references the following:

MIL-DTL-55302/169
MIL-DTL-45204
SAE-AMS-QQ-N-290
SAE-AMS-P-81728

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CONCLUDING MATERIAL

Custodians:
Air Force – 85
DLA – CC

Preparing activity:
DLA - CC

(Project 5935-2013-060)

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 <https://assist.dla.mil/>.