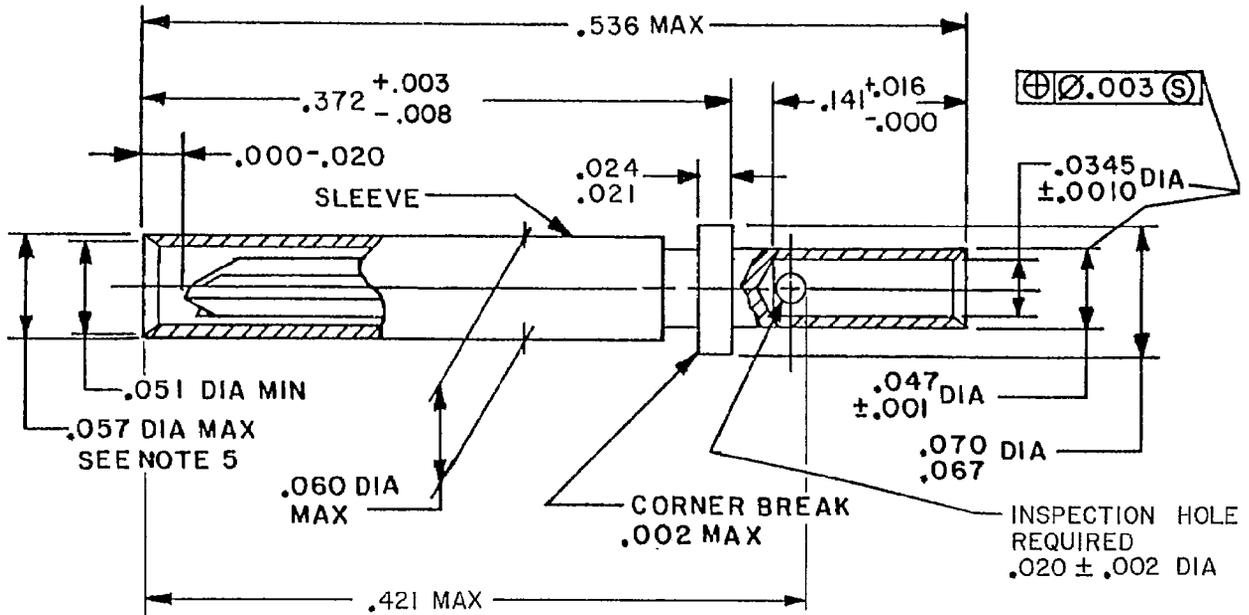


MILITARY SPECIFICATION SHEET

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

This specification is approved for use within the Department of the Air Force, and is available for use by all Departments and Agencies of the Department of Defense.

The requirements for acquiring the connectors described herein shall consist of this specification and the latest issue of MIL-C-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-C-55302/169.
5. Applies to within .020 of entry minimum.

FIGURE 1. Contact, brush, crimp removable.

Ⓐ denotes changes

MIL-C-55302/171A(USAF)

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-55320.

Plating: The contact termination plating shall be in accordance with table I. Brush wire plating shall be in accordance with MIL-G-45204, type II, grade C, class 1 over nickel in accordance with QQ-N-290. Cut ends of brush wires need not be plated.

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

TABLE I. Contact tail plating.

Indicator	Plating
① 1	Tin lead per MIL-P-81728, 50 to 70 percent tin, .0001 minimum thick over copper per MIL-C-14550
① 2	Gold per MIL-G-45204, type II, grade C, class 1 over copper per MIL-C-14550

Custodian:
Air Force - 17

Review activities:
Air Force - 11, 85, 99

User activity:
Air Force - 19

Preparing activity:
Air Force - 17

Agent:
DLA - ES

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