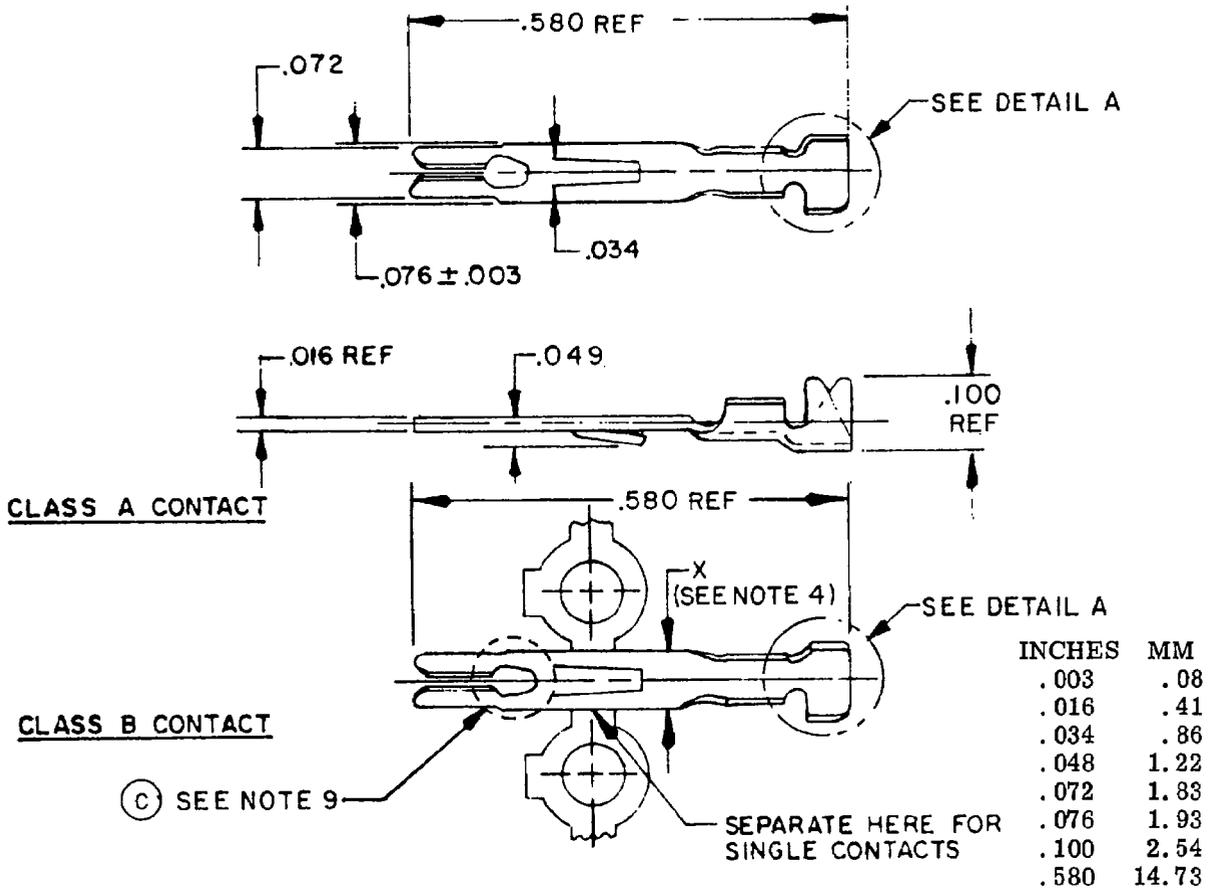


MILITARY SPECIFICATION SHEET

CONNECTORS, PRINTED CIRCUIT SUBASSEMBLY AND ACCESSORIES:
 CONTACTS, HERMAPHRODITIC, CRIMP REMOVABLE FOR WIRE (STRANDED)

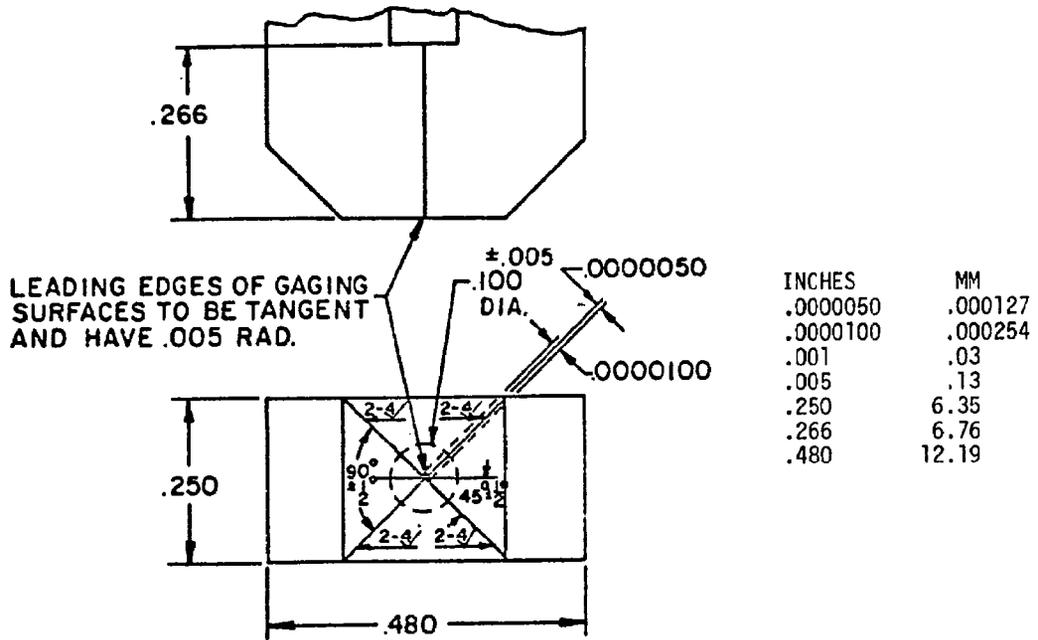
This specification sheet is approved for use by the Communications Research and Development Command, Department of the Army, and is available for use by all Departments and Agencies of the Department of Defense.

The complete requirements for procuring the contacts described herein shall consist of this document and the latest issue of Specification MIL-C-55302.



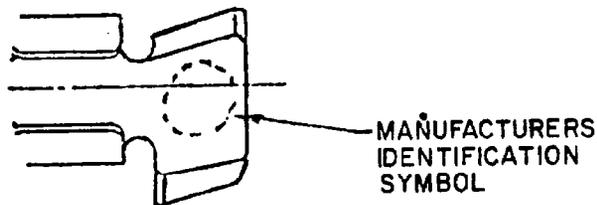
(C) FIGURE 1. Contact, hermaphroditic, crimp removable.

(C) denotes changes



Material: Medium alloy steel bonded titanium carbide, rockwell-C-67-69

Configuration A, test gage.



DETAIL A

Manufacturer's identification symbol shall be imprinted approximately as shown.

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only and are based upon 1.00 inch = 25.4 mm.
3. Tolerance shall be ±.005 (.13 mm) unless otherwise specified. All dimensions are for parts after plating.
4. Trip area not to exceed width of contact across retaining lance area "X".
5. Contact crimp for use with (AWG) wire range 22 to 30 stranded type E per MIL-W-16878.
6. Remove all burrs and sharp edges .001 inch (.03 mm) maximum.
7. Crimp tool MIL-C-22520/17-02.
8. Contact insertion and removal tool MIL-T-81969/5-01 and MIL-T-81969/4-02.
9. Contact relief hole configuration, optional.

© FIGURE 1. Contact, hermaphroditic, crimp removable - Continued.

REQUIREMENTS:

Dimensions and configuration: See figure 1.

Material: Phosphor bronze per QQ-B-750, composition "A".

Plating: The contact plating shall be gold per MIL-G-45204, type II, grade D, class 1, over nickel plating per QQ-N-290, class 2, 30 to 150 microinches in contact engagement area for .120 inch minimum (see figure 1). The remainder of the contact shall be gold per MIL-G-45204, type II, grade D, 10 microinches minimum, over nickel plating per QQ-N-290, class 2, 30 to 150 microinches.

Contact separating force (see configuration A):

Polished steel gage from unplated contacts: 1 ounce minimum.

Plated gold over nickel contacts (contact to contact): 2 to 10 ounces.

Current rating: 5 amperes, 22 AWG wire.

Identification of contact:

Contacts shall be permanently imprinted with manufacturer's symbol for purpose of identifying manufacturer's product (see detail A).

Application: Contact, hermaphroditic, crimp removable for wire (stranded), are to be used with connectors, MIL-C-55302/93 and MIL-C-55302/94, and MIL-C-55302/102 through MIL-C-55302/104.

Part number: M55302/97-01, supplied loose for hand crimping installation.
M55302/97-02, supplied on a reel containing 3000 contacts for automatic crimping machine installation.

All contacts shall be tested and qualified in accordance with the applicable connector specification sheet.

Custodian:
Army - CR

Review activities:
Army - AT, AV, MI
DLA - ES

User activities:
Army - AR, ME

Preparing activity:
Army - CR

Agent:
DLA - ES

(Project 5935-A141-7)