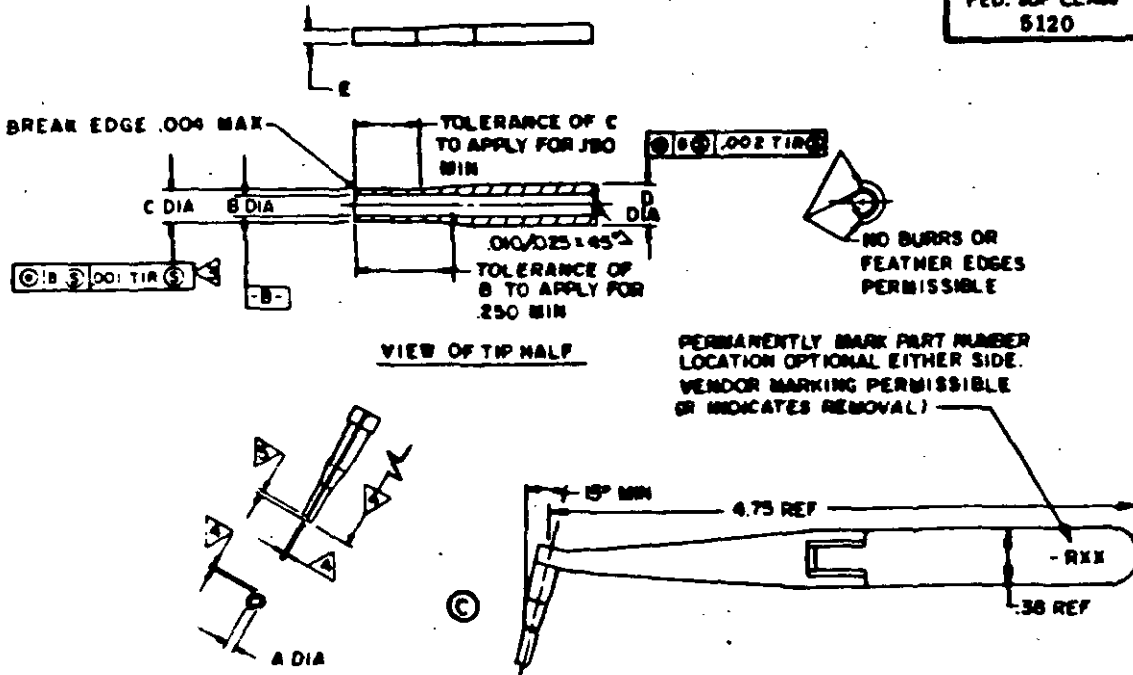


FED. SUP CLASS
5120



| MS Part number | Size | Color code See note 8 | | A Dia | B Dia | C Dia | D Dia | E | H Dia | J Dia |
|----------------|------------|--------------------------|-------|----------|----------------|----------------|----------|---------------------------|------------------|----------|
| | | No. 1 | No. 2 | ±.0002 | ±.001 -.000 | ±.000 -.001 | ±.003 | | ±.0002 -.0000 | ±.0002 |
| MS27495R22M | 22D 22M | Black | White | .0600 | .060 | .064 | .113 | .032 +.000 -.001 | .0645 | .0680 |
| MS27495R22 | 22 | Brown | White | .0600 | .060 | .074 | .113 | .037 +.000 -.001 | .0745 | .0580 |
| MS27495R20 | 20 | Red | White | .0770 | .077 | .097 | .113 | .0485 +.0000 -.0010 | .0975 | .0750 |
| MS27495R16 | 16 | Blue | White | .1000 | .100 | .135 | .138 | .0675 +.0000 -.0010 | .1355 | .1070 |
| MS27495R12 | 12 | Yellow | White | .1550 | .155 | .193 | .188 | .0980 +.0000 -.0010 | .1925 | .1530 |

NOTES:

1. If tips are manufactured in mated pairs, indicated dimensions do not apply but must be equal within .006.
2. E dimension to apply for length of .200 min.
3. Concentricity to be maintained for a length of .250 min.
4. With tips closed around an A dia. pin, the tips shall align themselves within .001 throughout the .544 ± .010 length and clearance between the tips shall be .000-.003 for a length of .200 ± .010.
5. With the tips in the normal closed position, the tips shall end align within .005.
6. Allowing for the flexibility of the tips, they shall enter a ring gage of H dia. to a depth of .187 min. with the tips in the ring gage a pin of J dia. shall enter the tips to a depth of .250 min.
7. Surface on exterior of tips to be 16 max.
8. Color band, if used, to be enamel paint or equivalent. Code No. 1 indicates tool size, code No. 2 indicates removal tool.
9. Material - tips: Steel SAE 4130, AMS 6370, or equivalent. Tweezers: Steel, reverse action with box joint to insure note 5. Stainless or treated to resist corrosion.
10. Reference documents shall be the issue in effect on date of invitation for bids. This standard takes precedence over documents referenced herein.
11. Cadmium plating shall not be used as a coating or finish.

© denotes changes

User activities: Army, Navy, Air Force
 Review activities: Army, Navy, Air Force
 EC 11, 15, 80
 DSA-ES
 This military standard is approved for use by all Departments and Agencies of the Department of Defense. Selection for all new engineering and design applications and for repetitive use shall be made from this document when applicable.

CANCELLED - FOR PROCUREMENT USE - MIL-I-81969/8

APPROVED 1 AUG 67 REVISED (B) 7 JUL 71 (C) 9 FEB 76 (D) 6 DEC 85

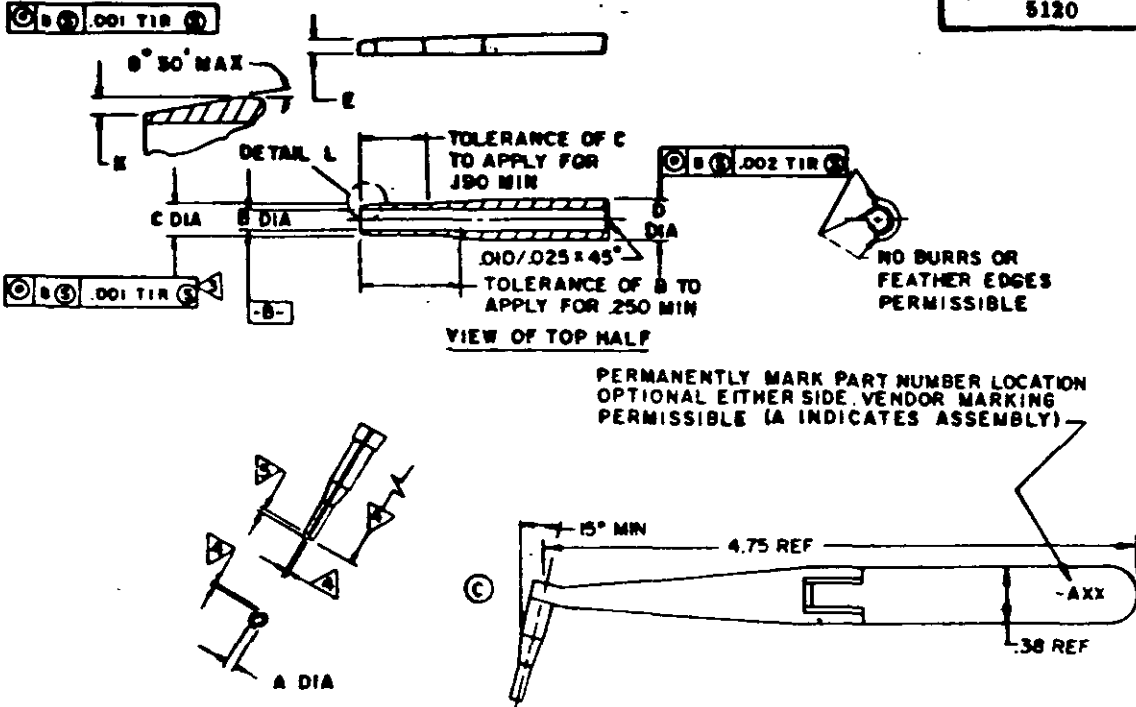
| | | | |
|---------------------------------------|-----------------|---|-------------------|
| P.A. 84 | Interchangeable | TITLE | MILITARY STANDARD |
| Other Cust. EL AS 85 | | TOOL, CONTACT, CONNECTOR ASSEMBLY AND DISASSEMBLY | MS27495 |
| Procurement Specification MIL-C-38999 | | SUPERSEDES: | PAGE 1 OF 3 |

DD FORM 672 (Coordinated) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

5120-0861

SHOOT FRONT ONLY S/S

FED. SUP CLASS
5120



| MS Part number | Size | Color code See note 8 | A Dia ±.0002 | B Dia ±.001 -.000 | C Dia ±.000 -.001 | D Dia ±.003 | E +.0000 -.0020 | H Dia +.0002 -.0000 | J Dia ±.0002 | K |
|----------------|------|--------------------------|-----------------|-------------------------|-------------------------|----------------|-----------------------|---------------------------|-----------------|--------------|
| MS27495A22M | 22M | Black | .0500 | .050 | .064 | .113 | .0290 | .0645 | .0480 | .004 .006 |
| MS27495A22 | 22 | Brown | .0600 | .060 | .074 | .113 | .0340 | .0745 | .0580 | .004 .006 |
| MS27495A20 | 20 | Red | .0770 | .077 | .097 | .113 | .0455 | .0975 | .0750 | .006 .008 |
| MS27495A16 | 16 | Blue | .1090 | .109 | .135 | .138 | .0645 | .1355 | .1070 | .008 .011 |
| MS27495A12 | 12 | Yellow | .1550 | .155 | .192 | .195 | .0930 | .1925 | .153 | .013 .016 |

- NOTES:
1. If tips are manufactured in mated pairs, indicated dimensions do not apply but must be equal within .006.
 2. E dimension to apply for a length of .200 min.
 3. Concentricity to be maintained for a length of .250 min.
 4. With the tips closed around an A dia. pin, the tips shall align themselves within .001 throughout the .544 ± .010 length and clearance between the tips shall be .006 - .010 for a length of .200 ± .010.
 5. With the tips in the normal closed position, the tips shall end align within .005.
 6. Allowing for the flexibility of the tips, they shall enter a ring gage of H dia. to a depth of .187 min., with the tips in the ring gage a pin of J dia. shall enter the tips to a depth of .250 min.
 7. Surface on exterior of tips to be .16 max.
 8. Color band, if used, to be enamel paint or equivalent. Color code indicates tool size.
 9. Material - tips: Steel SAE 4130, AMS 6370, or equivalent. Tweezers: Steel, reverse action with box joint to insure note 5. Stainless or treated to resist corrosion.
 10. Reference documents shall be the issue in effect on date of invitation for bids. This standard takes precedence over documents referenced herein.
 11. Cadmium plating shall not be used as a coating or finish.

User activities: Army, Navy, Air Force
 Review activities: Army, Navy, Air Force
 EC
 Air Force - 11, 15, 80
 DSA - ES
 This military standard is approved for use by all Departments and Agencies of the Department of Defense. Selection for all new engineering and design applications and for repetitive use shall be made from this document when applicable.

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| | | | |
|---------------------------------------|-----------------|---|-------------------|
| P.O. 84 | Interchangeable | TITLE | MILITARY STANDARD |
| Other Cust. EL AS 85 | INTRODUCED BY: | TOOL, CONTACT, CONNECTOR ASSEMBLY AND DISASSEMBLY | MS27495 |
| Procurement Specification MIL-C-38999 | | SUPERSEDES | PAGE 2 OF 3 |

FED. SUP CLASS
5120

Review activities: Army - EC
Navy - 11, 15, 80
Air Force - DSA - ES

User activities: Army -
Navy -
Air Force -

This military standard is approved for use by all Departments and Agencies of the Department of Defense. Selection for all new engineering and design applications and for repetitive use shall be made from this document when applicable.

| INCHES | MM | INCHES | MM | INCHES | MM | INCHES | MM |
|--------|-----|--------|------|--------|------|--------|--------|
| .000 | .00 | .025 | .64 | .064 | 1.63 | .110 | 2.79 |
| .0000 | .00 | .0290 | .74 | .0645 | 1.64 | .135 | 3.43 |
| .0002 | .01 | .032 | .81 | .0675 | 1.71 | .1355 | 3.44 |
| .001 | .03 | .0340 | .86 | .074 | 1.88 | .153 | 3.89 |
| .0010 | .03 | .037 | .94 | .0745 | 1.89 | .1530 | 3.89 |
| .002 | .05 | .0455 | 1.16 | .0750 | 1.91 | .155 | 3.94 |
| .0020 | .05 | .0480 | 1.22 | .077 | 1.96 | .1550 | 3.94 |
| .003 | .08 | .0485 | 1.23 | .0770 | 1.96 | .181 | 4.60 |
| .004 | .10 | .050 | 1.27 | .0930 | 2.36 | .187 | 4.75 |
| .005 | .13 | .0500 | 1.27 | .096 | 2.44 | .192 | 4.88 |
| .006 | .15 | .052 | 1.32 | .0960 | 2.44 | .1925 | 4.89 |
| .008 | .20 | .055 | 1.40 | .097 | 2.46 | .200 | 5.08 |
| .010 | .25 | .0580 | 1.47 | .0975 | 2.48 | .250 | 6.35 |
| .011 | .28 | .060 | 1.52 | .1070 | 2.72 | .38 | 9.65 |
| .013 | .33 | .0600 | 1.52 | .109 | 2.77 | .544 | 13.82 |
| .016 | .41 | .062 | 1.57 | .1090 | 2.77 | .737 | 18.72 |
| | | | | | | 4.75 | 120.65 |

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| | | | |
|--|------------------------|---|-------------------|
| P.A. 84 | International interest | TITLE TOOL, CONTACT, CONNECTOR ASSEMBLY AND DISASSEMBLY | MILITARY STANDARD |
| Other Cust EL AS 85 | | | MS 27495 |
| Procurement Specification MIL-C-38999 | SUPERSEDES: | | PAGE 3 OF 3 |