

INCH-POUND

MS3128J
 6 June 2003
 SUPERSEDING
 MS3128I
 5 September 1975

DETAIL SPECIFICATION SHEET

CONNECTOR, RECEPTACLE, ELECTRICAL, CRIMP TYPE,
 WALL MOUNTING, NO 4/6 HOLES, BAYONET COUPLING,
 CLASSES E, F AND P

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 and MIL-C-26482.

Inactive for new design as of 15 February 1965.
 Use MS3120 for new design.

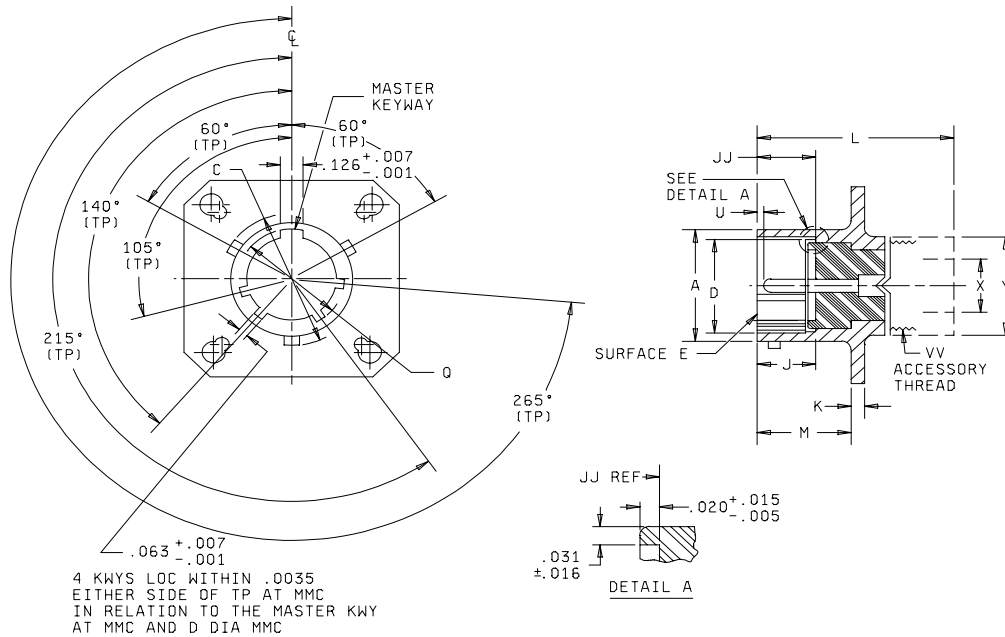


FIGURE 1. Receptacle, style P (pin insert), for classes E, F, and P.

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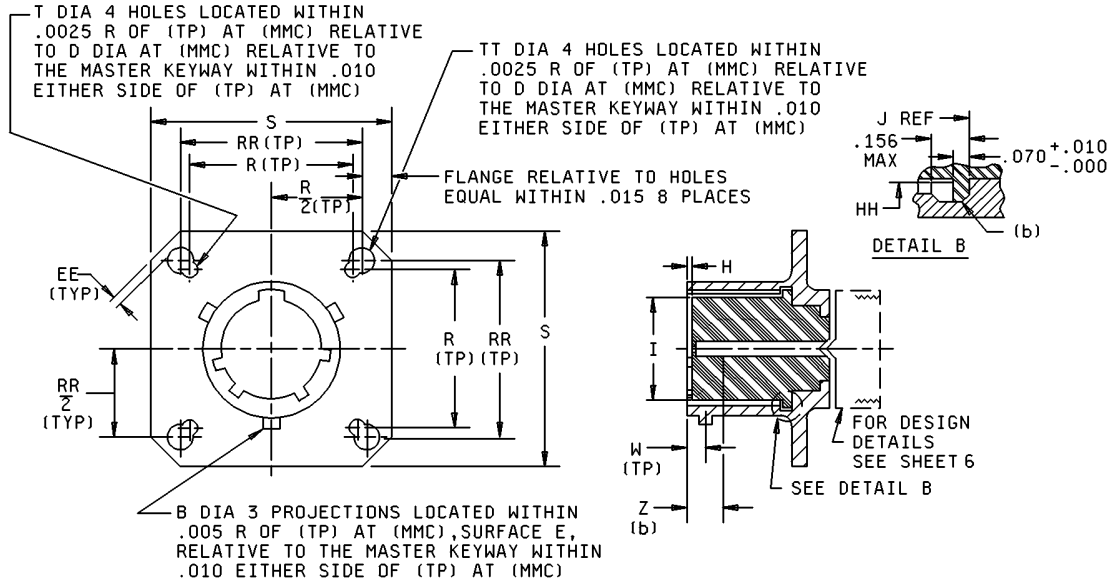


FIGURE 1. Receptacle, style S (socket insert), for classes E, F, and P - Continued.

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| Size | A dia -.005 +.001 od | B +.016 -.001 | C dia +.000 -.016 over projection | D dia +.005 -.001 id | EE min edge distance | H +.000 -.020 socket insert location |
|------|----------------------------------|---------------------|--|----------------------------------|-------------------------------|---|
| 10 | .590 | .078 | .680 | .490 | .035 | .025 |
| 12 | .750 | | .859 | .607 | | |
| 14 | .875 | | .984 | .732 | | |
| 16 | 1.000 | | 1.108 | .857 | | |
| 18 | 1.125 | | 1.233 | .962 | | |
| 20 | 1.250 | | 1.358 | 1.087 | | |
| 22 | 1.375 | .125 | 1.483 | 1.212 | .050 | .087 |
| 24 | 1.500 | | 1.610 | 1.337 | | |

| Size | I max insert dia | J \pm .010 | JJ -.020 +.000 pin insert location | K \pm .016 thick mounting flange | JJ -.020 +.000 pin insert location | Q dia -.006 +.005 | R (TP) mounting | |
|------|---------------------------|-----------------|---|--|---|----------------------------|-----------------------|-------|
| 10 | .402 | .382 | .332 | .062 | .462 | .540 | .719 | |
| 12 | .516 | | | | | .659 | .812 | |
| 14 | .641 | | | | | .814 | .906 | |
| 16 | .766 | | | | | .939 | .969 | |
| 18 | .855 | | | | | 1.033 | 1.062 | |
| 20 | .980 | .444 | .394 | .094 | .556 | 1.164 | 1.156 | |
| 22 | 1.105 | | | | | 1.289 | 1.250 | |
| 24 | 1.229 | | | | | .589 | 1.414 | 1.375 |
| | | | | | | | | |

FIGURE 1. Dimensions for classes E, F, and P - Continued.

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| Size | RR (TP) mounting holes | S max length side | T $\pm .005$ dia mounting holes | TT $\pm .005$ dia mounting holes | V (TP) bay pin location |
|------|---------------------------------|----------------------------|---|--|-------------------------------------|
| 10 | .812 | 1.141 | .120 | .150 | .085 |
| 12 | .938 | 1.266 | | | |
| 14 | 1.031 | 1.360 | | | |
| 16 | 1.125 | 1.453 | | | |
| 18 | 1.203 | 1.532 | | | |
| 20 | 1.297 | 1.688 | | | |
| 22 | 1.375 | 1.766 | | | .147 |
| 24 | 1.500 | 1.891 | | | |

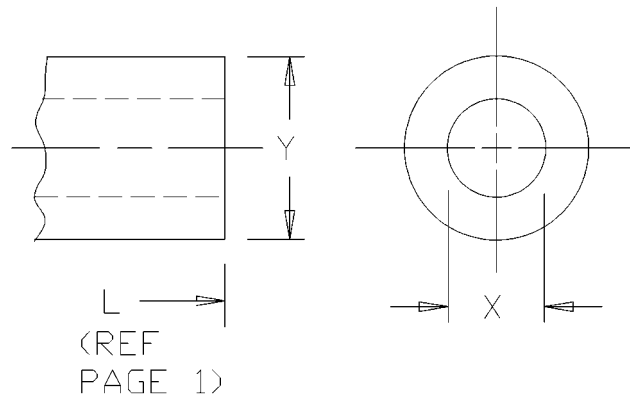
| Size | Z (a) - .000 + .028 socket contact spring location | YY thread class 2A | MM max id gasket |
|------|--|--------------------------|---------------------------|
| 10 | .153 | 9/16-24 | .457 |
| 12 | | 11/16-24 | .564 |
| 14 | | 13/16-20 | .689 |
| 16 | | 15/16-20 | .814 |
| 18 | | 1 1/16-18 | .907 |
| 20 | .215 | 1 3/16-18 | 1.039 |
| 22 | | 1 5/16-18 | 1.164 |
| 24 | | 1 7/16-18 | 1.289 |

NOTES:

1. Dimensions are in inches.
2. Tolerance for angles is $1/2^\circ$.
3. Metric equivalents are given for general information only.
4. Distance between end of shell and the point at which a gage pin having the same basic diameter as the Mating contact and a square face first engages socket contact spring.
5. True position (TP) tolerances specified are in accordance with ANSI Y14.5.

FIGURE 1. Dimensions for classes E, F, and P - Continued.

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| Size | L max over-all length | X dia min id | Y dia max od |
|------|--------------------------------|-----------------------|-----------------------|
| 10 | 1.552 | .359 | .730 |
| 12 | | .469 | .858 |
| 14 | | .589 | .954 |
| 16 | | .717 | 1.110 |
| 18 | | .779 | 1.244 |
| 20 | 1.709 | .901 | 1.360 |
| 22 | | 1.009 | 1.404 |
| 24 | | 1.123 | 1.610 |

FIGURE 2. Dimensions for class E.

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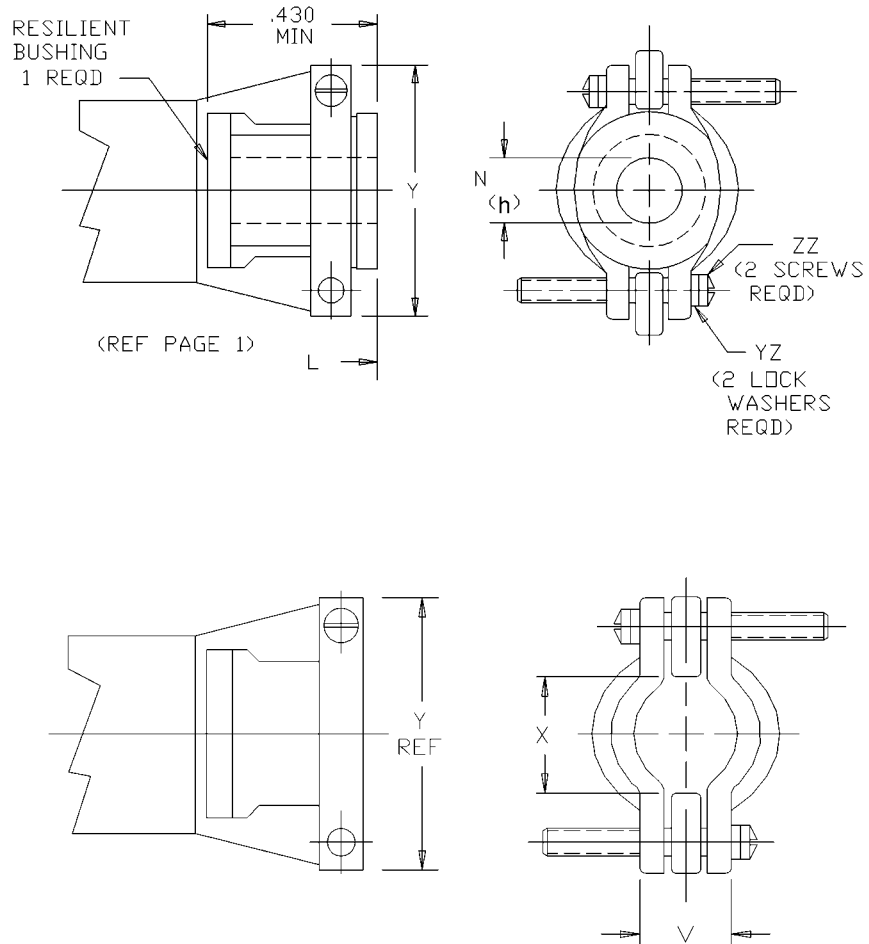


FIGURE 3. Dimensions for class F.

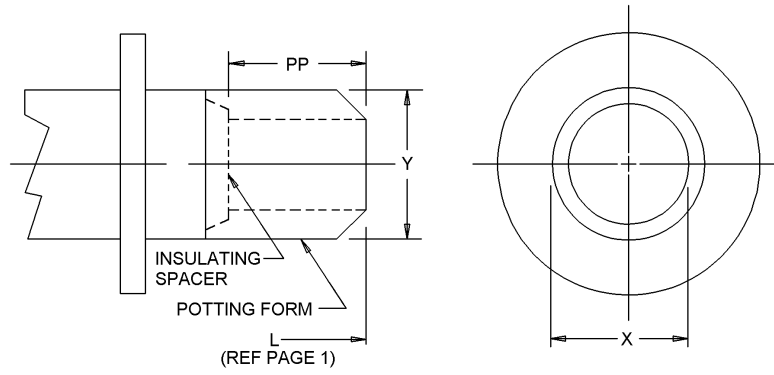
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| Size | L max over-all length | X dia min open | Y max | V max closed |
|------|--------------------------------|-------------------------|----------|--------------------|
| 10 | 2.422 | .297 | .891 | |
| 12 | | .422 | 1.016 | .281 |
| 14 | | .547 | 1.141 | .325 |
| 16 | 2.537 | .609 | 1.203 | .356 |
| 18 | | .734 | 1.469 | .456 |
| 20 | | | | |
| 22 | 2.824 | .922 | 1.656 | .519 |
| 24 | 2.900 | .984 | 1.750 | .657 |

| Size | N (f) free dia $\pm .010$ | ZZ screw threads | YZ (g) lock washers NASM35338 OR NASM35333 |
|------|---------------------------------|------------------------|---|
| 10 | .180 | 6-32UNC | NASM35338B6L or -6L NASM35333-105 or NASM35333-37 |
| 12 | .312 | | |
| 14 | .373 | | |
| 16 | .500 | | |
| 18 | .625 | 8-32UNC | NASM35338B6L or -6L NASM35333-106 or NASM35333-38 |
| 20 | | | |
| 22 | .750 | | |
| 24 | .800 | | |

FIGURE 3. Dimensions for class F - Continued.

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| Size | L max over-all length | X dia min | Y dia max | PP min |
|------|--------------------------------|-----------------|-----------------|-----------|
| 10 | 1.750 | .434 | .734 | .250 |
| 12 | | .548 | .858 | |
| 14 | | .673 | .984 | |
| 16 | | .798 | 1.110 | |
| 18 | | .899 | 1.234 | |
| 20 | 1.892 | 1.024 | 1.360 | |
| 22 | 1.953 | 1.149 | 1.484 | |
| 24 | | 1.274 | 1.610 | |

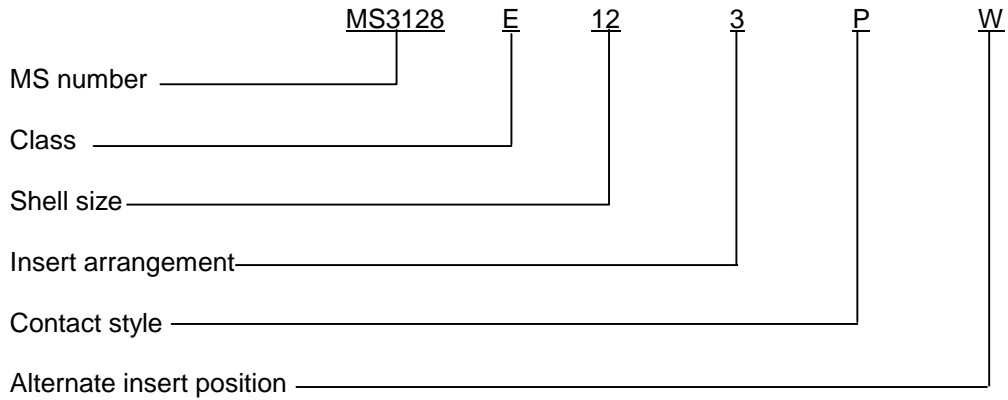
FIGURE 4. Dimensions for class P.

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REQUIREMENTS:

Dimensions and configuration: See figures 1 through 4.
This connector mates with MS3121 and MS3126.
Insert arrangements shall be in accordance with MIL-STD-1669.
Connector accessories: See MIL-C-85049.
Packing material shall meet the requirements of ASTM-D2000.
Sealing member: Bonded to vitreous insert.

Part or Identifying Number (PIN) example:



CONCLUDING MATERIAL

Custodians:
Army -CR
Navy -AS
Air Force - 11
DLA - CC

Preparing activity:
DLA - CC

(Project 5935-4419-023)

Review activities:
Army - MI
Air Force - 99

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| <p>1. The preparing activity must complete blocks 1, 2, 3, and 8. In block 1, both the document number and revision letter should be given.</p> <p>2. The submitter of this form must complete blocks 4, 5, 6, and 7, and send to preparing activity.</p> <p>3 The preparing activity must provide a reply within 30 days from receipt of the form.</p> <p>NOTE: This form may not be used to request copies of documents, nor to request waivers, or clarification of requirements on current contracts. Comments submitted on this form do not constitute or imply authorization to waive any portion of the referenced document(s) or to amend contractual requirements.</p> | | |
| I RECOMMEND A CHANGE: | 1. DOCUMENT NUMBER MS3128J | 2. DOCUMENT DATE (YYYYMMDD) 2003/06/06 |
| 3. DOCUMENT TITLE CONNECTORS, RECEPTACLE, ELECTRICAL, CRIMP TYPE, WALL MOUNTING FLANGE, NO 4/6 HOLES, BAYONET COUPLING, CLASSES E, F AND P | | |
| 4. NATURE OF CHANGE <i>(Identify paragraph number and include proposed rewrite, if possible. Attach extra sheets as needed.)</i> | | |
| 5. REASON FOR RECOMMENDATION | | |
| 6. SUBMITTER | | |
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| c. ADDRESS <i>(Include Zip Code)</i> DSCC-VAI 3990 E. Broad St. Columbus, Ohio 43213 | IF YOU DO NOT RECEIVE A REPLY WITHIN 45 DAYS, CONTACT: Defense Standardization Program Office (DLSC-LM) 8725 John J. Kingman Road, Suite 2533 Fort Belvoir, Virginia 22060-6621 Telephone (703) 767-6888 DSN 427-6888 | |