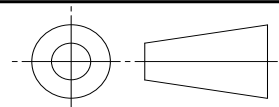
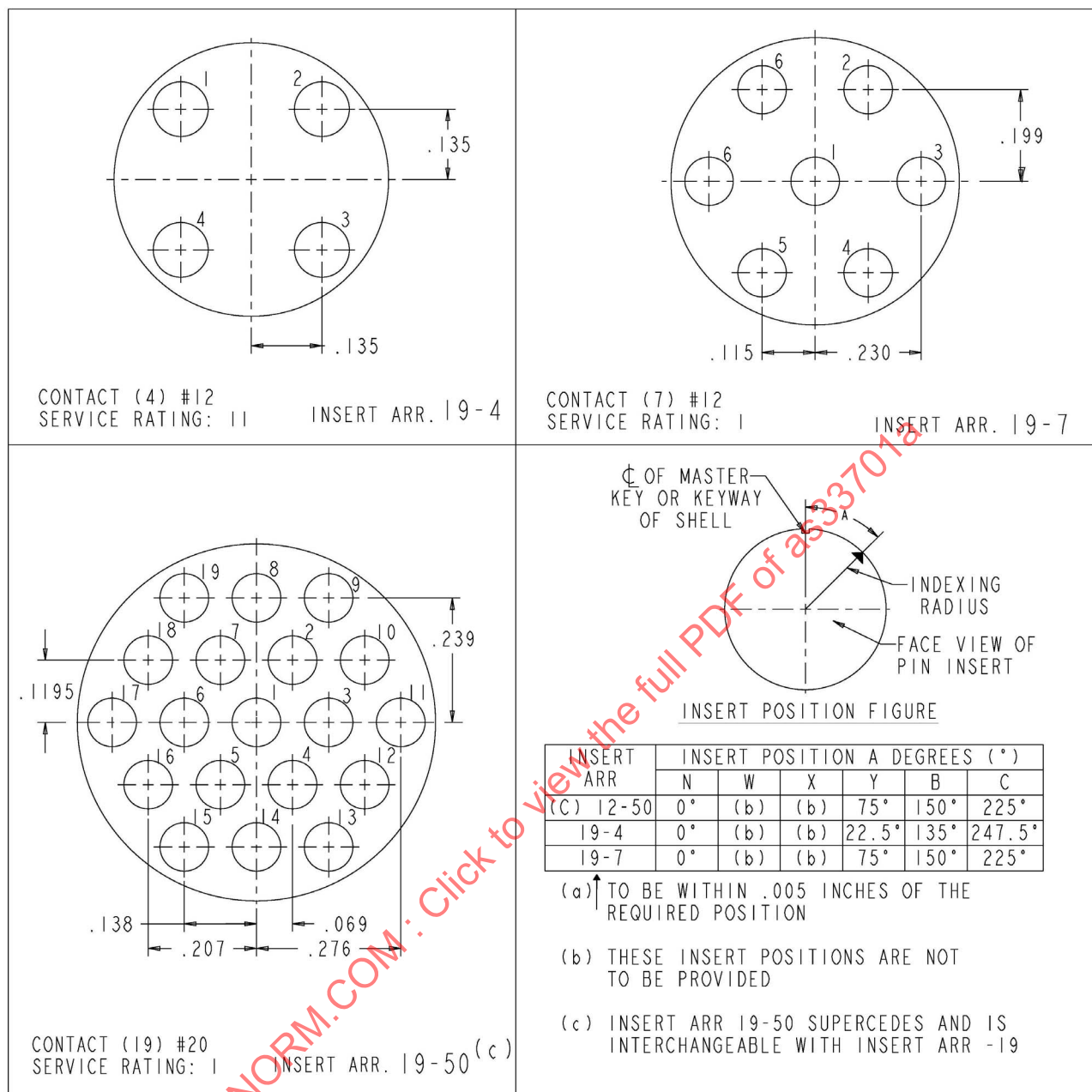


|                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| <b>REV.</b><br>A                                                                                                                                                                                                                                                                                                                                                                                            | FEDERAL SUPPLY CLASS<br>5935                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                             | RATIONALE<br><br>REVISED TO PROVIDE LEGIBLE DRAWINGS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                 |
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|                                                                                                                                                                                                                                                                                                                                                                                                             | <div style="text-align: center;">  </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                 |
| CUSTODIAN: SAE AE-8/AE-8C1                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | PROCUREMENT SPECIFICATION: MIL-C-81703                                                                          |
| <div style="border: 1px solid black; padding: 5px;">                 SAE values your input. To provide feedback on this Technical Report, please visit <a href="http://www.sae.org/technical/standards/AS33701A">http://www.sae.org/technical/standards/AS33701A</a> </div>                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | THIRD ANGLE PROJECTION<br> |
| <div style="display: flex; justify-content: space-between;"> <div> <b>SAE Aerospace</b><br/>An SAE International Group                 </div> <div> <b>AEROSPACE STANDARD</b><br/>                     INSERT ARRANGEMENTS, ELECTRIC CONNECTOR, SHELL SIZE 19                 </div> <div> <b>SAE</b> AS33701<br/>SHEET 1 OF 4                 </div> <div> <b>REV.</b><br/>A                 </div> </div> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                 |

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DIMENSIONS AND MARKINGS SHOWN ARE FOR FRONT FACE OF PIN INSERT (SOCKET INSERT OPPOSITE). UNLESS OTHERWISE INDICATED, DIMENSIONS ARE SYMMETRICAL ABOUT CENTERLINE.



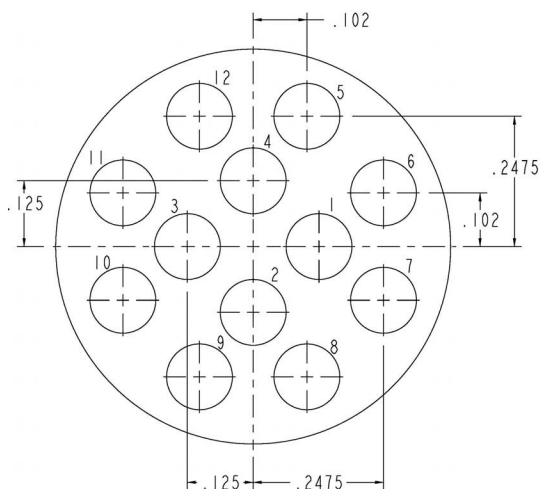
INDICATES "MASTER KEY OR KEYWAY OF SHELL."

↑ INDICATES TERMINUS OF "INDEXING RADIUS OF INSERT" SHALL BE PERMANENTLY MARKED ON THE INSERT.

IN NORMAL POSITION THE INDEXING RADIUS COINCIDES WITH  $\phi$  OF THE "MASTER KEYWAY OF SHELL."

IN ALTERNATE POSITIONS THE PIN INSERT IS ROTATED A DEGREES CLOCKWISE RELATIVE TO  $\phi$  OF THE "MASTER KEY OR KEYWAY OF SHELL" AS INDICATED.

IN ALTERNATE POSITIONS THE SOCKET INSERT IS ROTATED A DEGREES COUNTER CLOCKWISE RELATIVE TO  $\phi$  OF THE "MASTER KEY OR KEYWAY OF SHELL".

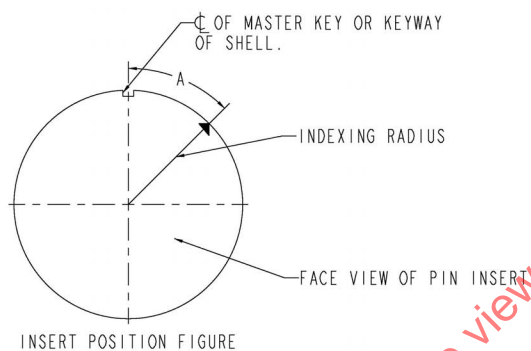


CONTACTS: (12) # 16  
SERVICE RATING: I

INSERT ARR. 19-12

CONTACTS:  
SERVICE RATING:

INSERT ARR. -



| INSERT<br>ARR | INSERT POSITION A DEGREES |     |     |     |     |      |      |
|---------------|---------------------------|-----|-----|-----|-----|------|------|
|               | N                         | W   | X   | Y   | Z   | B    | C    |
| 19-12         | 0°                        | 25° | 50° | 75° | (b) | 150° | 225° |
|               |                           |     |     |     |     |      |      |
|               |                           |     |     |     |     |      |      |

(a) ↑ TO BE WITHIN .006 INCHES OF THE REQUIRED POSITION

(b) THESE INSERT POSITIONS ARE NOT TO BE PROVIDED

NOTES:

#### RECEPTACLES (REF) PLUGS (REF)

|        |        |
|--------|--------|
| MS3130 | MS3137 |
| MS3132 | MS3138 |
| MS3134 | MS3147 |
| MS3139 | MS3148 |
| MS3140 | MS3446 |
| MS3143 | MS3467 |
| MS3144 | MS3468 |
| MS3145 | MS3445 |
| MS3149 |        |
| MS3424 |        |
| MS3463 |        |
| MS3464 |        |
| MS3466 |        |
| MS3469 |        |