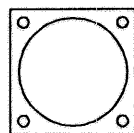
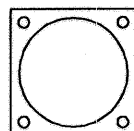


ACCESSORIES

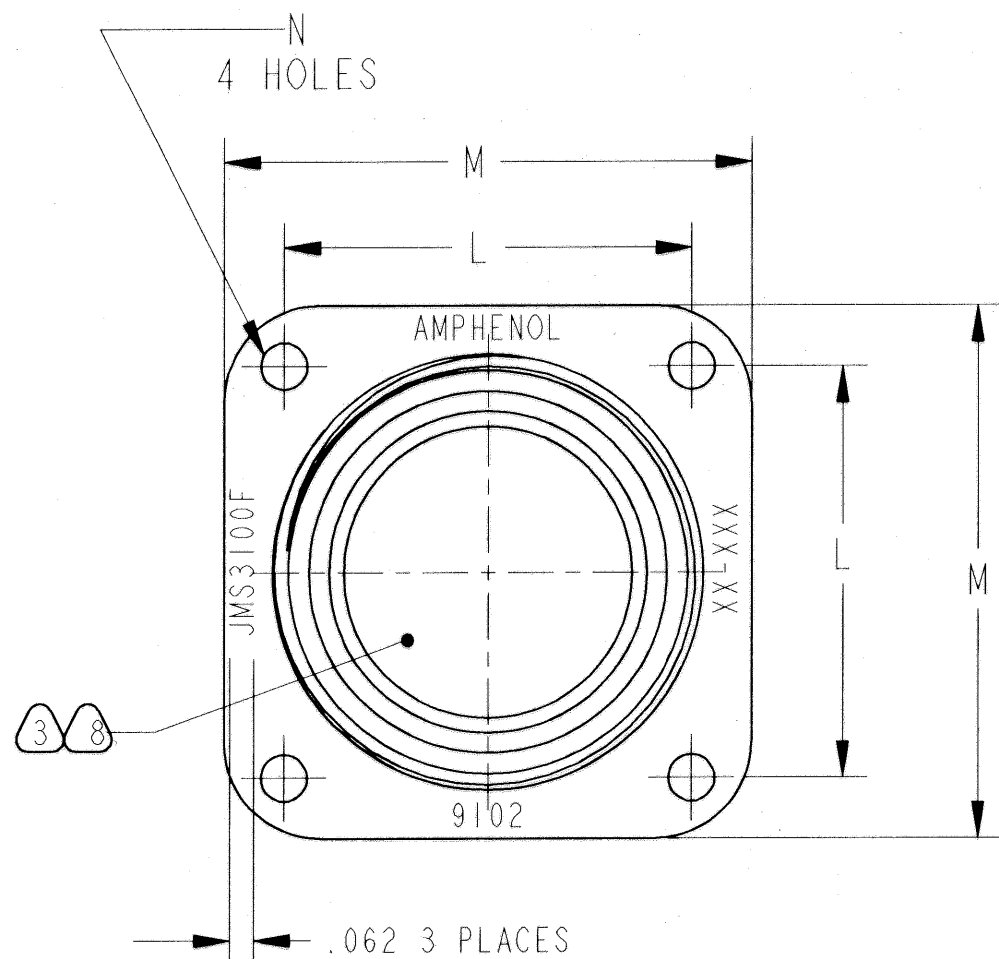
(NOT PART OF STANDARD ASSEMBLY)



FLANGE GASKET,  
PLAIN  
10-40450-(SHELL SIZE)



FLANGE GASKET,  
SHIELDING  
10-40450-(SHELL SIZE)



5 BLACK INK STAMP "AMPHENOL",  
DATE CODE(9-3895) AND MS NUMBER  
PER 9-2811  
EXAMPLE:  
AMPHENOL 9102 JMS3100F20-12P

| CONTACT DATA (WHERE APPLICABLE)                                                                                                                                                                        |                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| THERMOCOUPLE                                                                                                                                                                                           |                |
| MATERIAL                                                                                                                                                                                               | IDENTIFICATION |
| CHROMEL                                                                                                                                                                                                | WHITE          |
| ALUMEL                                                                                                                                                                                                 | GREEN          |
| IRON                                                                                                                                                                                                   | BLACK          |
| CONSTANTAN                                                                                                                                                                                             | YELLOW         |
| INSERT ARRANGEMENTS CONTAINING<br>THERMOCOUPLE CONTACTS MUST HAVE<br>SUCH CONTACTS ASSEMBLED INTO THE<br>INSERT IN PROPER LOCATIONS AS<br>SPECIFIED BY APPLICABLE DRAWINGS<br>MS33683-13 OR MS33684-15 |                |

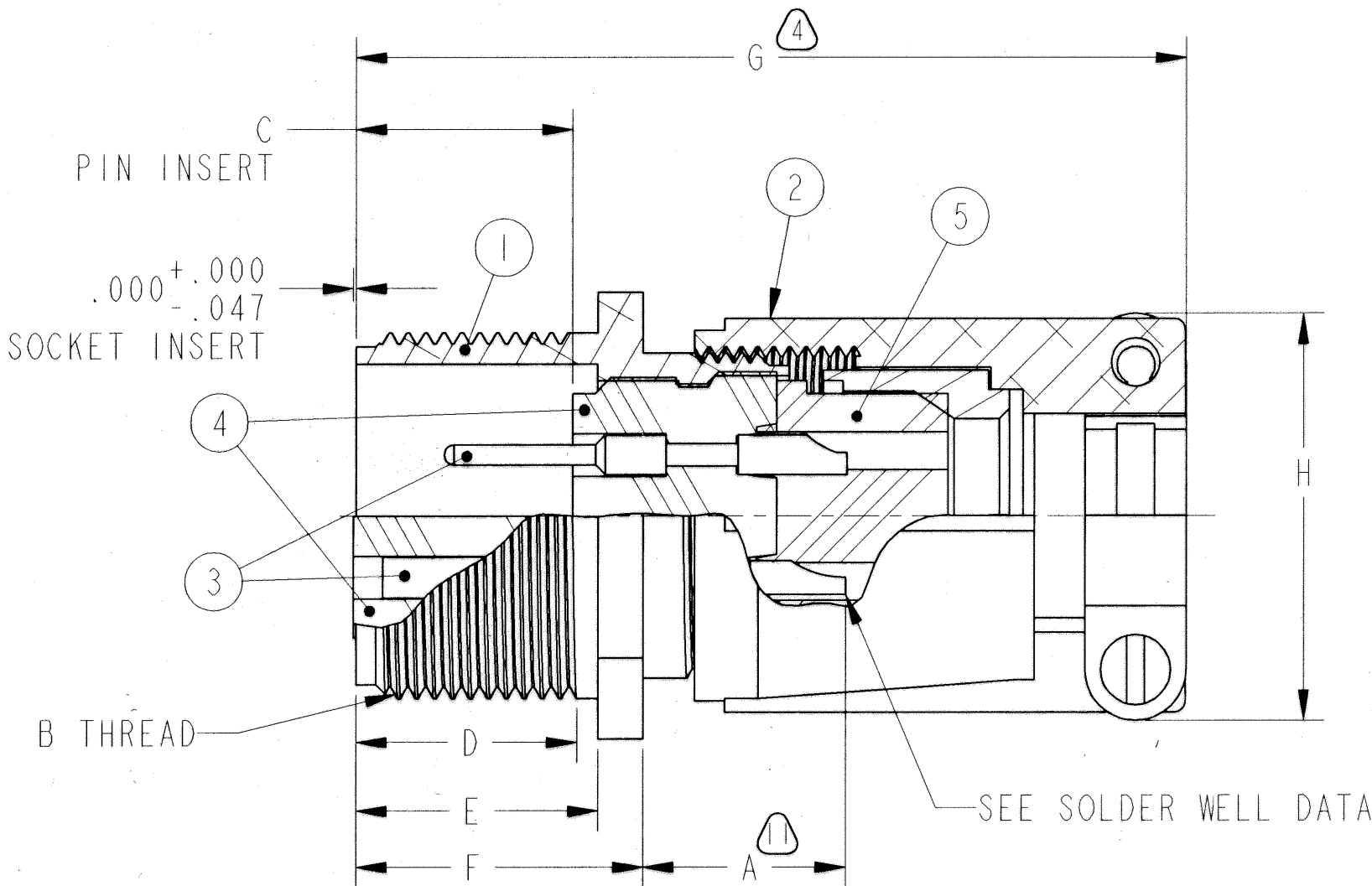
SEE SHEET 2.

NOTES:

THE USE OF THIS DOCUMENT IS UNLIMITED.  
HOWEVER, DOCUMENTS REFERENCED HEREON  
MAY CONTAIN LIMITED RIGHTS DATA.

COMPANY ID: 4    CODED/MS/CUST: Y    N/A  
INTERNAL: N    LOT NO: N  
DATE CODE: 9-3895    SEE DRAW: N    N/A

STAMPING DATA    NEXT ASSEMBLY



| SOLDER WELL DATA |                                        |                                        |                                        |                                        |                                        | THERMOCOUPLE                           |                                        |
|------------------|----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|
| CONTACT SIZE     | 0                                      | 4                                      | 8                                      | 12                                     | 16                                     | 12                                     | 16                                     |
| WELL DIA         | .469 <sup>+.005</sup> <sub>-.003</sub> | .332 <sup>+.005</sup> <sub>-.003</sub> | .209 <sup>+.004</sup> <sub>-.002</sub> | .116 <sup>+.004</sup> <sub>-.002</sub> | .078 <sup>+.004</sup> <sub>-.002</sub> | .125 <sup>+.004</sup> <sub>-.002</sub> | .094 <sup>+.004</sup> <sub>-.002</sub> |
| WELL DEPTH       | <sup>+.031</sup> <sub>-.000</sub>      | .625                                   | .625                                   | .500                                   | .375                                   | .250                                   | .188                                   |

|   |   |             |               |  |
|---|---|-------------|---------------|--|
| 5 | I | SEE COLUMN  | GROMMET       |  |
| 4 | I | SEE COLUMN  | INSERT        |  |
| 3 |   | SEE NOTE 12 | CONTACTS      |  |
| 2 | I | SEE COLUMN  | BACKSHELL KIT |  |
| 1 | I | SEE COLUMN  | SHELL         |  |

| UNLESS OTHERWISE SPECIFIED                                                                                                                                                                              |  | SPECIFICATIONS               |  | POS                                                         | QTY            | PART NUMBER | DESCRIPTION                                          |                              |                                             | NOTE         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------|--|-------------------------------------------------------------|----------------|-------------|------------------------------------------------------|------------------------------|---------------------------------------------|--------------|
| LINEAR DIMENSIONS ARE<br>IN INCHES<br>TOLERANCES:<br>.XXXX = ±.0005<br>.XXX = ±.010<br>.XX = ±.03<br>.X = ±.1<br>ANGLES = ±2°<br>OTHER STANDARDS PER 9-3800<br>AND DOD-D-1000<br>THIRD ANGLE PROJECTION |  | MATERIAL SPEC.               |  | APPROVALS                                                   |                | DATE        | PARTS LIST                                           |                              |                                             |              |
|                                                                                                                                                                                                         |  | N/A                          |  | PREPARED                                                    | WHITNEY        | 11-4-69     | AMPHENOL CORPORATION<br>SIDNEY, N.Y. 13838-1395      |                              |                                             |              |
|                                                                                                                                                                                                         |  | PROCESS SPEC.                |  | CHECKED                                                     | MENDEOLA       | 11-18-69    | CONNECTOR,<br>ELECTRICAL RECEPTACLE,<br>TYPE MS3100F |                              |                                             |              |
|                                                                                                                                                                                                         |  | TEST:9-3106-1                |  | MATERIAL                                                    |                |             |                                                      |                              |                                             |              |
|                                                                                                                                                                                                         |  | ASSY:9-3238-1                |  | APPROVED                                                    | R. W. TYLER    | 11-6-69     |                                                      |                              |                                             |              |
|                                                                                                                                                                                                         |  | 9-2437,<br>9-2811,<br>9-3895 |  | APPROVED                                                    | W. M. HARRISON | 11-19-69    | SIZE<br>C                                            | FSCM NO.<br>77820            | DOCUMENT NO.<br>10-474008 THRU<br>10-474050 | REV.<br>D    |
|                                                                                                                                                                                                         |  |                              |  | PRO/ENG INFORMATION<br>10-474008-050.ASSEM<br>10-474008-050 |                |             |                                                      | SCALE:NONE REF: 10-329800/19 |                                             | SHEET 1 OF 2 |

FAMCODES DATA3:ANS MNS CICS:

10-474008/050

DOC NO

SH

1 OF 2

A

TAB.

| 4                  |                | 3                      |              |             |                  | 2                   |                                     |            |                            |                     | 1                   |          |          |            |       |                            |
|--------------------|----------------|------------------------|--------------|-------------|------------------|---------------------|-------------------------------------|------------|----------------------------|---------------------|---------------------|----------|----------|------------|-------|----------------------------|
| ASSEMBLY<br>NUMBER | MS<br>NUMBER   | ⑤<br>INSERT            | ⑤<br>GROMMET | SHELL       | BACKSHELL<br>KIT | A<br>+.050<br>-.060 | B<br>THREAD<br>CLASS 2A<br>(PLATED) | C<br>±.031 | D<br>MIN<br>FULL<br>THREAD | E<br>+.010<br>-.000 | F<br>+.020<br>-.010 | G<br>MAX | H<br>MAX | L<br>±.005 | M     | N<br>DIA<br>+.004<br>-.002 |
| 10-474008-( )      | 3100F- 8S -( ) | NOT AVAILABLE          |              |             |                  |                     |                                     |            |                            |                     |                     |          |          |            |       |                            |
| 10-474010-( )      | 3100F-10S -( ) | NOT AVAILABLE          |              |             |                  |                     |                                     |            |                            |                     |                     |          |          |            |       |                            |
| 10-474011-( )      | 3100F-10SL-( ) | 10-74811-( )           | 10-60711-( ) | 10-37260-11 | 10-584182-113    | .422                | .6250-24 UNEF                       | .484       | .391                       | .562                | .672                | 2.192    | .896     | .719       | 1.000 | .120                       |
| 10-474012-( )      | 3100F-12S -( ) | 10-74812-( )           | 10-60712-( ) | 10-37260-12 | 10-584182-113    | .422                | .7500-20 UNEF                       | .484       | .450                       | .562                | .672                | 2.192    | .896     | .812       | 1.094 | .120                       |
| 10-474013-( )      | 3100F- 12 -( ) | 10-74813-( )           | 10-60713-( ) | 10-37260-13 | 10-584182-113    | .672                | .7500-20 UNEF                       | .672       | .625                       | .750                | .860                | 2.536    | .896     | .812       | 1.094 | .120                       |
| 10-474014-( )      | 3100F-14S -( ) | 10-74814-( )           | 10-60714-( ) | 10-37260-14 | 10-584185-143    | .422                | .8750-20 UNEF                       | .484       | .450                       | .562                | .672                | 2.192    | 1.021    | .906       | 1.188 | .120                       |
| 10-474015-( )      | 3100F- 14 -( ) | 10-74815-( )           | 10-60715-( ) | 10-37260-15 | 10-584185-143    | .672                | .8750-20 UNEF                       | .672       | .625                       | .750                | .860                | 2.536    | 1.021    | .906       | 1.188 | .120                       |
| 10-474016-( )      | 3100F-16S -( ) | 10-74816-( )           | 10-60716-( ) | 10-37260-16 | 10-584187-163    | .422                | 1.0000-20 UNEF                      | .484       | .450                       | .562                | .672                | 2.192    | 1.151    | .969       | 1.281 | .120                       |
| 10-474017-( )      | 3100F- 16 -( ) | 10-74817-( )           | 10-60717-( ) | 10-37260-17 | 10-584188-173    | .672                | 1.0000-20 UNEF                      | .672       | .625                       | .750                | .860                | 2.536    | 1.151    | .969       | 1.281 | .120                       |
| 10-474018-( )      | 3100F- 18 -( ) | 10-74818-( )           | 10-60718-( ) | 10-37260-18 | 10-584189-183    | .641                | 1.1250-18 UNEF                      | .672       | .625                       | .750                | .891                | 2.661    | 1.242    | 1.062      | 1.375 | .120                       |
| 10-474020-( )      | 3100F- 20 -( ) | 10-74820-( )           | 10-60720-( ) | 10-37260-20 | 10-584190-203    | .641                | 1.2500-18 UNEF                      | .672       | .625                       | .750                | .891                | 2.661    | 1.499    | 1.156      | 1.500 | .120                       |
| 10-474022-( )      | 3100F- 22 -( ) | 10-74822-( )           | 10-60722-( ) | 10-37260-22 | 10-584191-223    | .641                | 1.3750-18 UNEF                      | .672       | .625                       | .750                | .891                | 2.661    | 1.499    | 1.250      | 1.625 | .120                       |
| 10-474024-( )      | 3100F- 24 -( ) | 10-74824-( )           | 10-60724-( ) | 10-37260-24 | 10-584192-243    | .578                | 1.5000-18 UNEF                      | .672       | .625                       | .812                | .953                | 2.739    | 1.781    | 1.375      | 1.750 | .147                       |
| 10-474028-( )      | 3100F- 28 -( ) | 10-74828-( )           | 10-60728-( ) | 10-37260-28 | 10-584193-283    | .578                | 1.7500-18 UNS                       | .672       | .625                       | .812                | .953                | 2.739    | 1.781    | 1.562      | 2.000 | .147                       |
| 10-474032-( )      | 3100F- 32 -( ) | 10-74832-( )           | 10-60732-( ) | 10-37260-32 | 10-584194-323    | .500                | 2.0000-18 UNS                       | .672       | .625                       | .875                | 1.031               | 3.128    | 2.087    | 1.750      | 2.250 | .173                       |
| 10-474036-( )      | 3100F- 36 -( ) | 10-74836-( )           | 10-60736-( ) | 10-37260-36 | 10-584195-363    | .500                | 2.2500-16 UN                        | .672       | .625                       | .875                | 1.031               | 3.128    | 2.281    | 1.938      | 2.500 | .173                       |
| 10-474040-( )      | 3100F- 40 -( ) | SEE INDIVIDUAL DRAWING |              |             |                  |                     |                                     |            |                            |                     |                     |          |          |            |       |                            |
| 10-474041/50       |                | NOT AVAILABLE          |              |             |                  |                     |                                     |            |                            |                     |                     |          |          |            |       |                            |

6. TO COMPLETE ASSEMBLY NUMBER AND MS NUMBER, ADD APPLICABLE INSERT ARRANGEMENT SUFFIX TO BASE NUMBERS LISTED ABOVE. (FOR ALTERNATE ARRANGEMENTS, REFER TO 9-2437).
5. SEE WORK ORDER FOR PERMISSIBLE ADDITIONAL OR ALTERNATE STAMPING.
4. DIMENSION INDICATES FINAL INSTALLATION. FOR STORAGE AND SHIPPING, NUT AND SLEEVE MUST BE LOOSELY COUPLED.
3. FOR CONTACT SIZE, SPACING AND SERVICE RATING, SEE DRAWINGS, MIL-STD-1651.
2. PACKAGE PER PRODUCTION PROCESS SHEET.
1. SHIP CONNECTOR WITH SEALING PLUGS UNASSEMBLED.

NOTES:

THE USE OF THIS DOCUMENT IS UNLIMITED. HOWEVER, DOCUMENTS REFERENCED HEREON MAY CONTAIN LIMITED RIGHTS DATA.

15. SOME INSERTS AND GROMMETS ARE TOOLED UNDER A +50 PART NUMBER. CONSULT PARTS LIST FOR VERIFICATION.
14. INDICATED THERMOCOUPLE CONTACT DATA IS APPLICABLE ONLY TO 10-474017-13P/S, 10-474018-15P/S (AND THEIR ALTERNATE ARRANGEMENTS) WHICH ARE THE ONLY THERMOCOUPLE ARRANGEMENTS AVAILABLE IN THIS SERIES.
13. ALL UNUSED GROMMET HOLES MUST BE FILLED WITH APPROPRIATE SIZE SEALING PLUGS.
12. SEE SEPARATE PARTS LIST FOR COMPONENT PART NUMBERS AND QUANTITIES.
11. INCREASE "A" DIMENSION BY .312 FOR SIZE "0" CONTACT ONLY.
10. UNITS ILLUSTRATED MEET THE MATERIAL AND FINISH REQUIREMENTS OF MIL-C-5015.
9. ALL LOCKWIRE HOLES ARE .045 DIAMETER MINIMUM
8. INSERTS AND CONTACTS ARE NOT REMOVABLE.
7. SEE DRAWING 10-474608/650 AND OTHERS FOR REQUIRED MATING PLUG ASSEMBLIES.

|                  |                          |                                                     |                  |
|------------------|--------------------------|-----------------------------------------------------|------------------|
| SIZE<br><b>C</b> | FSCM NO.<br><b>77820</b> | DOCUMENT NO.<br><b>10-474008 THRU<br/>10-474050</b> | REV.<br><b>D</b> |
| SCALE: NONE      |                          | REF: 10-329800/19                                   | SHEET 2 OF 2     |

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