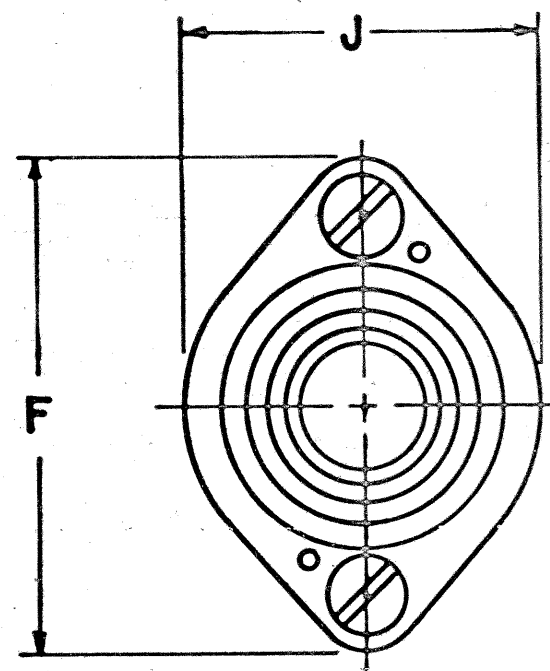
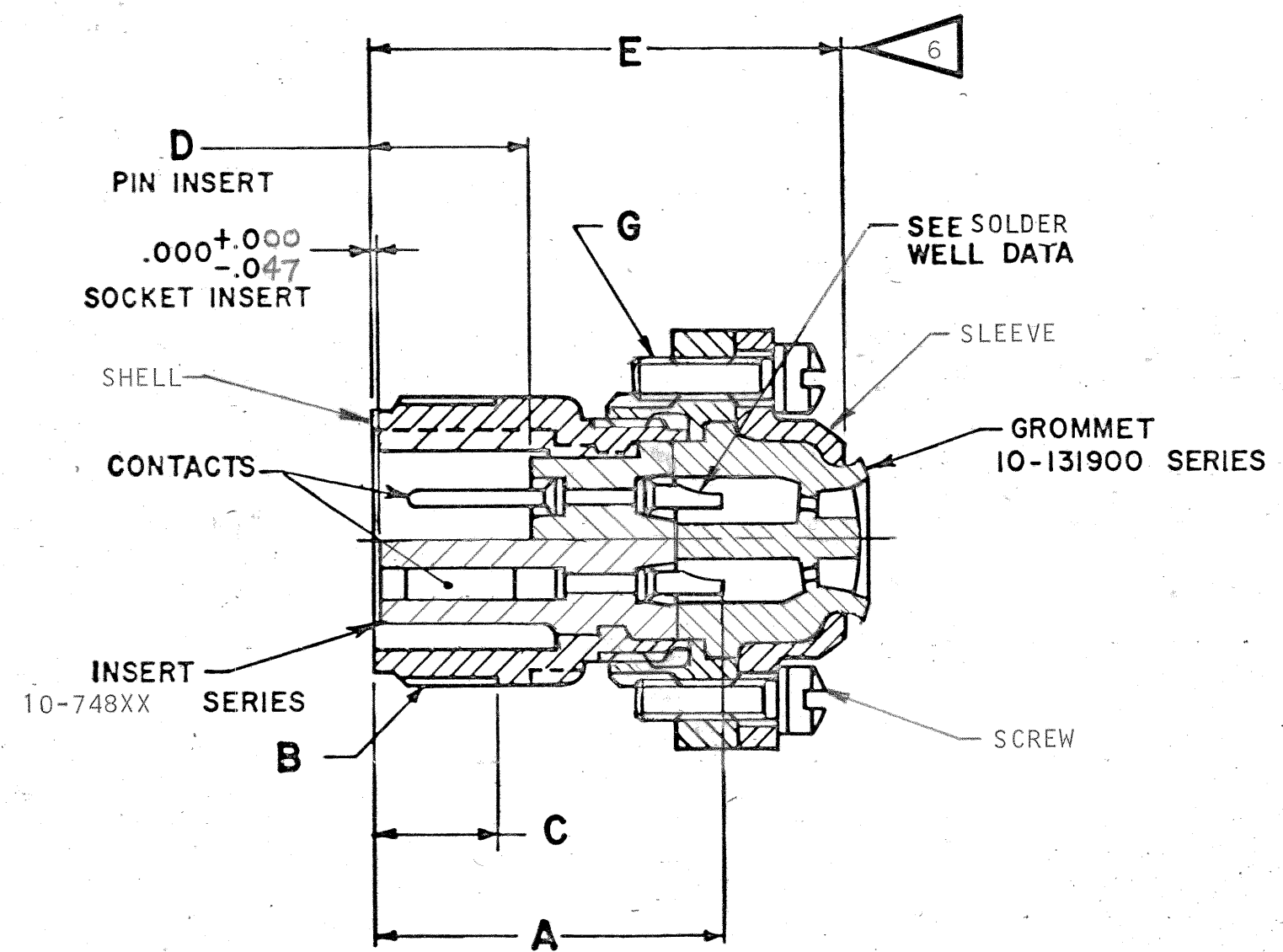
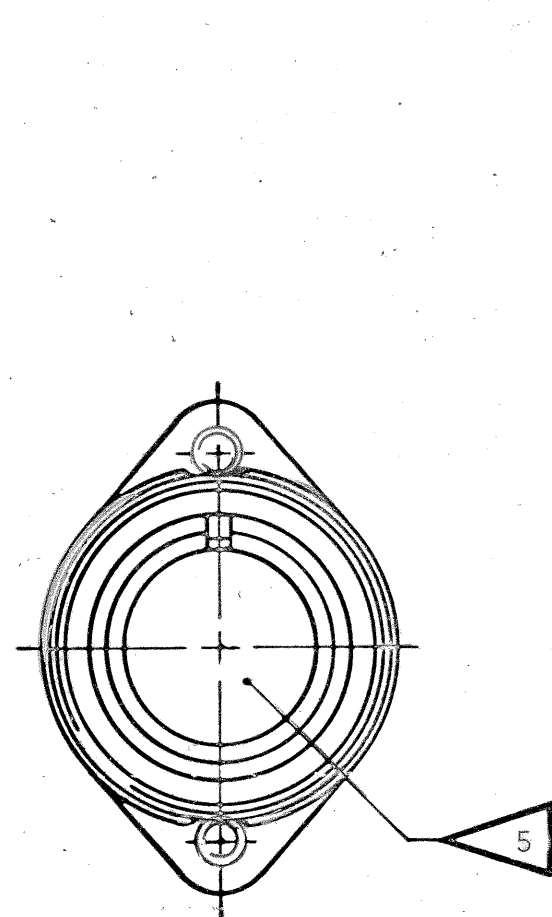
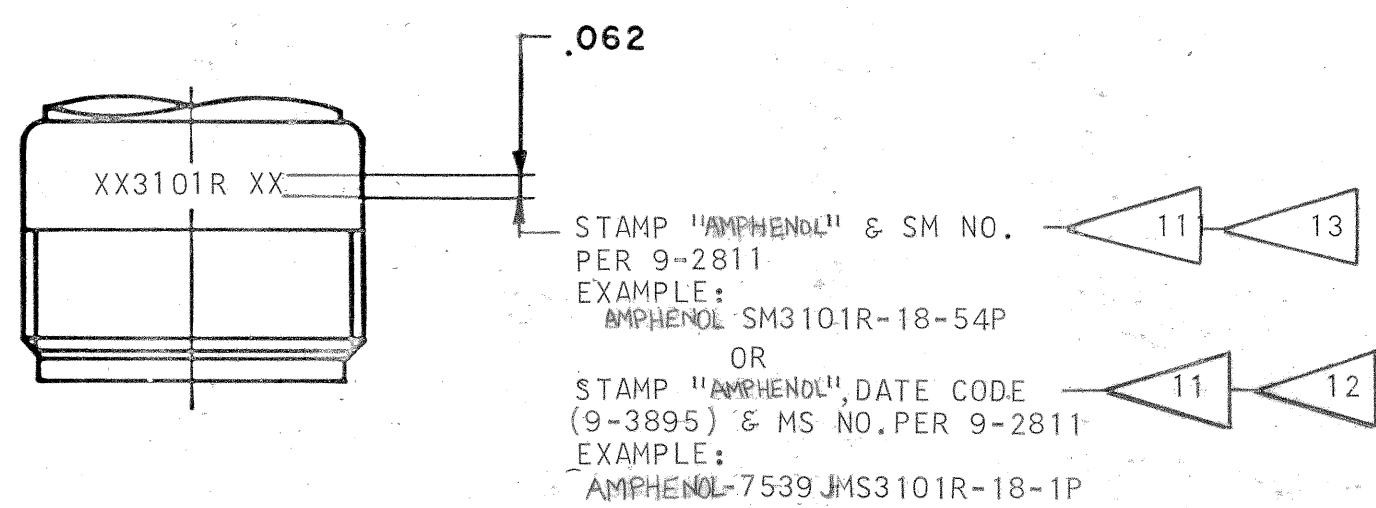


| 35508-462 | | REVISIONS | | |
|-----------|-----|--|--------------------------------|--------------------|
| ZONE | LTR | DESCRIPTION | DATE | APPROVED |
| A7 | | REDRAWN SAME SIZE, REVISED AND STANDARDIZED; (SEE NOTICE OF CHANGE) ECN: 55525-41 | 10-10-72 LAMBRECH | <i>[Signature]</i> |
| B | | (MFG); ADD. 9-3895 (PROCESS SPEC); REV STAMPING NOTE ECN: 57216-3 | 12-22-75 <i>[Signature]</i> | <i>[Signature]</i> |
| C | | (MFG); REV STAMPING NOTE 12 ECN: 57738-2 | 5-19-76 BOWKER | <i>[Signature]</i> |
| D | | (CL II) SEE CHANGE NOTICE ECN: 74790-5 | 12-14-83 Pescott | <i>[Signature]</i> |
| E | | (CL II) REV INSERT DIM WAS .000+.047-.000 ECN: 21435-1 | 12-23-88 SHEIRER | <i>[Signature]</i> |
| F | | (CL II) SEE ECN 91395 | 8/10/02 | <i>[Signature]</i> |



| FIND NO. | QTY REQD | CODE IDENT | PART NUMBER | DESCRIPTION | NOTE REF |
|--|----------|------------|--------------------------------|-------------|---|
| PARTS LIST | | | | | |
| UNLESS OTHERWISE SPECIFIED LINEAR DIMENSIONS ARE IN INCHES. TOLERANCES: .XXX ± .010, .XX ± .03, .X ± .1, ANGLES ± 2°. OTHER STANDARDS PER 9-3800 AND MIL-D-1000. NOTE REF | | | SIGNATURES | DATES | The Bendix Corporation Electrical Components Division Sidney, New York TITLE: CONNECTOR, ELECTRICAL PLUG, TYPE MS-R, SM-R()FL |
| MATERIAL SPEC | | | PREPARED JOYCE | 9-25-58 | |
| | | | CHECKED <i>[Signature]</i> | 10-2-73 | |
| PROCESS SPEC TEST 9-3106-5 ASSY 9-3103-1 9-2811 9-2437 9-3895 | | | APPROVED <i>[Signature]</i> | 12-7-72 | |
| | | | APPROVED <i>[Signature]</i> | 10-4-73 | |
| | | | | | SIZE C |
| | | | | | CODE IDENT NO. 77820 |
| | | | | | 10-190108 THRU 10-190150 |
| | | | | | SCALE NONE |
| | | | | | SEE PARTS LIST |
| | | | | | REF 10-131108/50 |
| | | | | | SHEET 1 OF 2 |

SEE SHEET 2 NOTES:

10-190108/50

4

3

2

1

| ASSEMBLY NUMBER | SM OR MS NUMBER | SHELL | NUT | SLEEVE | SCREW 2 REQD | A MAX | B THREAD (PLATED) CLASS 2 A | C MIN FULL THD | D ±.031 | E MAX | F DIA MAX | G THREAD CLASS 2 | J DIA MAX |
|-----------------|-----------------|-------------|---------------|---------------|--------------|-------|-----------------------------|----------------|---------|-------|-----------|------------------|-----------|
| 10-190108- | 3101R- 8S - | 10-37261- 8 | 10-130028- 83 | 10-130029- 83 | 10-101152-83 | 1.134 | .500-28UNEF | .406 | .484 | 1.588 | .959 | 6-32 UNC | .557 |
| 10-190110- | -10S - | -10 | -103 | -103 | | | .625-24UNEF | | | | 1.026 | | .682 |
| 10-190111- | -10SL- | -11 | -123 | -123 | | | .625-24UNEF | | | | 1.120 | | .807 |
| 10-190112- | -12S - | -12 | -123 | -123 | | | .750-20UNEF | .422 | | | | | |
| 10-190113- | -12 - | -13 | -133 | -123 | | 1.572 | .750-20UNEF | .656 | .672 | 1.931 | | | |
| 10-190114- | -14S - | -14 | -143 | -143 | | 1.134 | .875-20UNEF | .391 | .484 | 1.588 | 1.307 | | .932 |
| 10-190115- | -14 - | -15 | -153 | -143 | | 1.572 | .875-20UNEF | .625 | .672 | 1.931 | 1.307 | | .932 |
| 10-190116- | -16S - | -16 | -163 | -163 | | 1.134 | 1.000-20UNEF | .391 | .484 | 1.588 | 1.432 | | 1.057 |
| 10-190117- | -16 - | -17 | -173 | -163 | | 1.572 | 1.000-20UNEF | .625 | .672 | 1.931 | 1.432 | | 1.057 |
| 10-190118- | -18 - | -18 | -183 | -183 | | | 1.125-18UNEF | | | | 1.557 | | 1.182 |
| 10-190120- | -20 - | -20 | -203 | -203 | 10-101151-83 | | 1.250-18UNEF | | | | 1.744 | 8-32 UNC | 1.291 |
| 10-190122- | -22 - | -22 | -223 | -223 | 10-101151-83 | | 1.375-18UNEF | | | | 1.869 | | 1.432 |
| 10-190124- | -24 - | -24 | -243 | -243 | 10-101151-93 | | 1.500-18UNEF | | | 2.009 | 1.994 | | 1.557 |
| 10-190128- | -28 - | -28 | -283 | -283 | 10-101151-93 | | 1.750-18UNS | | | 2.009 | 2.166 | | 1.807 |
| 10-190132- | -32 - | -32 | -323 | -323 | 10-101270-93 | | 2.000-18UNS | | | 2.072 | 2.541 | 10-32 UNF | 2.057 |
| 10-190136- | -36 - | -36 | -363 | -363 | | | 2.250-16UN | | | | 2.729 | | 2.260 |
| 10-190140- | -40 - | -40 | -403 | -403 | | | 2.500-16UN | | | | 2.979 | | 2.510 |
| 10-190141/50- | | | | | | | | | | | | | |

NOT AVAILABLE



| STANDARD SOLDER WELL DATA | | | | | | SPECIAL SOLDER WELL DATA | | | THERMOCOUPLE | |
|---------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|--------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| CONTACT SIZE | 0 | 4 | 8 | 12 | 16 | 8 FOR NO. 6 WIRE | 12 FOR NO. 10 WIRE | 16 FOR NO. 12 WIRE | 12 | 16 |
| WELL DIA | .469 ⁺ .005 -.003 | .332 ⁺ .005 -.003 | .209 ⁺ .004 -.002 | .116 ⁺ .004 -.002 | .078 ⁺ .004 -.002 | .250±.003 | .152 ⁺ .004 -.002 | .109 ⁺ .004 -.001 | .125 ⁺ .004 -.002 | .094 ⁺ .004 -.002 |
| WELL DEPTH | ⁺ .031 -.000 | .625 | .625 | .500 | .375 | .250 | .250 | .188 | .250 | .188 |

- 8. SHIP CONNECTORS WITH SEALING PLUGS UNASSEMBLED. (MS STAMPED CONNECTORS ONLY).
- 7. ALL UNUSED GROMMET HOLES MUST BE FILLED WITH APPROPRIATE SIZE SEALING PLUGS. SEALING PLUGS ARE PART OF MS STAMPED ASSEMBLIES ONLY.
- 6. DIMENSION INDICATES FINAL INSTALLATION. FOR STORAGE AND SHIPPING, NUT AND SLEEVE MUST BE LOOSELY COUPLED.
- 5. FOR CONTACT SIZE, SPACING AND SERVICE RATING, SEE DRAWINGS L-11908-() THRU L-11948-(), & DRAWINGS MS33680 THRU MS33693.
- 4. SEE DRAWINGS 10-190608 THRU 10-190650 AND OTHERS FOR REQUIRED MATING PLUG ASSEMBLIES.
- 3. FOR COMPONENT PART NUMBERS, QUANTITIES, AND RELEASE STATUS OF THE DESIRED UNIT, SEE SEPARATE PARTS LIST.
- 2. TO COMPLETE ASSEMBLY NO., SM NO., OR MS NO., ADD APPLICABLE INSERT ARRANGEMENT SUFFIX TO BASE NUMBERS LISTED ABOVE. (FOR ALTERNATE ARRANGEMENTS, REFER TO 9-2437).
- 1. UNITS ILLUSTRATED MEET THE MATERIAL & FINISH REQUIREMENTS OF MIL-C-5015.

- 15. PACKAGE PER PRODUCTION PROCESS SHEET.
- 13. CONNECTOR ASSEMBLIES 10-190108-50/-99 THRU 10-190150-50/-99, EXCEPT THOSE LISTED IN NOTE 12, ARE STAMPED WITH SM NO.
- 12. CONNECTOR ASSEMBLIES 10-190108-1/-49 THRU 10-190150-1/-49, AND 10-190136-52, 10-190140-56 AND 10-190140-62 ARE STAMPED WITH MS NO.
- 11. SEE WORK ORDER FOR PERMISSIBLE ADDITIONAL OR ALTERNATE STAMPING.
- 10. ALL LOCKWIRE HOLES ARE .045 DIA MIN.
- 9. INCREASE A DIMENSION BY .312 FOR SIZE 0 CONTACT.

| CONTACT DATA (WHERE APPLICABLE) | | | | |
|--|----------------|---------|-------|--|
| THERMOCOUPLE | | COAXIAL | | |
| MATERIAL | IDENTIFICATION | ARR | CABLE | |
| CHROMEL | WHITE | | | |
| ALUMEL | GREEN | | | |
| IRON | BLACK | | | |
| CONSTANTAN | YELLOW | | | |
| INSERT ARRANGEMENTS CONTAINING THERMOCOUPLE OR COAXIAL CONTACTS MUST HAVE SUCH CONTACTS ASSEMBLED INTO THE INSERT IN PROPER LOCATIONS AS SPECIFIED BY APPLICABLE DRAWING L-11908-() THRU L-11948-(). | | | | |

NOTES:

| | | | | |
|------|----------------|-----------|------|--|
| SIZE | CODE IDENT NO. | 10-190108 | THRU | |
| C | 77820 | 10-190150 | | |

| | | | | | | | | | | | |
|---------|----|---|---|---|---|---|-------|----|-----|-------|---|
| REV SYM | A7 | B | C | D | E | F | SCALE | VT | REF | SHEET | 2 |
|---------|----|---|---|---|---|---|-------|----|-----|-------|---|

D

C

B

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10-190108/50