

4

3

| | | |
|-----------|----|------|
| DWG NO. | SH | REV. |
| CHR1011-1 | 1 | N/C |

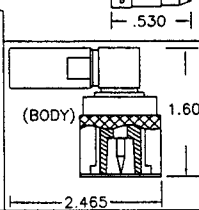
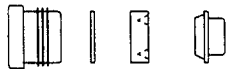
1

This print and associated documents and the contained information are the confidential property of ELECTRONIC CABLE SPECIALISTS. Disclosure of, and/or reproduction of, all of part thereof or manufacture of any part from information contained on this print not specifically permitted by ELECTRONIC CABLE SPECIALISTS in writing is forbidden.

DIMENSIONS

(CONTACT)

(CLAMP) (NUT) (WASHER) (GASKET) (BRAID) (CLAMP)



SPECIFICATIONS

ELECTRICAL

IMPEDANCE: 50 OHMS NOMINAL
 FREQUENCY RANGE: 0-4 GHz
 VSWR: 1.35:1 MAXIMUM
 INSERTION LOSS: .1dB MAXIMUM DC TO 2GHz
 WORKING VOLTAGE: 500 VRMS PEAK @ SEA LEVEL
 DIELECTRIC WITHSTANDING: 1500 VRMS MIN. @ SEA LEVEL
 INSULATION RESISTANCE: 5000 MEGOHMS MINIMUM @ 500 VOLTS DC

MECHANICAL

CONNECTOR INTERFACE DIMENSION PER MIL-STD-348A
 FIGURE 317-1 WITH EXTENDED PIN.
 TERMINATION STYLE: INNER CONTACT-SOLDER
 OUTER CONTACT-CLAMP
 CABLE RETENTION: 50 LBS

ENVIRONMENTAL

TEMPERATURE RATING: -65° TO +165° C
 VIBRATION: MIL-STD-202, METHOD 204, COND. B
 SHOCK: MIL-STD-202, METHOD 213, COND. 1
 THERMAL SHOCK: MIL-STD-202, METHOD 107, COND. B
 CORROSION: MIL-STD-202, METHOD 101, COND. B
 MOISTURE RESISTANCE: MIL-STD-202, METHOD 106

MATERIALS

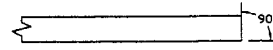
BODY: BRASS PER ASTM B16
 CLAMP NUT: BRASS PER ASTM B16
 WASHER: BRASS PER ASTM B16
 BRAID CLAMP: BRASS PER ASTM B16
 CABLE CONTACT: BRASS PER ASTM B16
 OUTER CONTACT: BRASS PER ASTM B16
 CONN. CONTACT: BERYLLIUM COPPER PER ASTM B196
 DIELECTRIC: TEFLON PER ASTM D1710
 GASKET: SILICON RUBBER PER ZZ-R-765

FINISHES

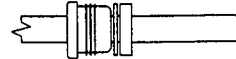
BODY, CLAMP NUT, WASHER, BRAID CLAMP AND
 CENTER CONTACT: PLATED SILVER PER QQ-S-365

INSTALLATION INSTRUCTIONS

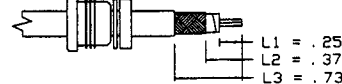
1. BEGIN BY CUTTING THE CABLE OFF SQUARE.



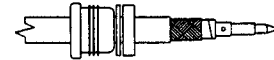
2. SLIDE THE ADHESIVE SHRINK TUBING (IF USED), CLAMP NUT, SLIP WASHER, AND GASKET OVER END OF CABLE.



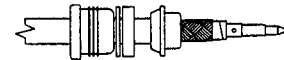
3. WHEN USING AUTOMATIC STRIPPING EQUIPMENT, STRIP CABLE AS SHOWN STARTING WITH L1 AND ENDING WITH L3. TAKE CARE NOT TO NICK THE CONDUCTORS WHILE STRIPPING THE DIELECTRIC AND JACKET. IF AUTOMATIC STRIPPING EQUIPMENT IS NOT AVAILABLE, STRIP ONLY L1 AND L3 AND TRIM EXCESS BRAID AS NECESSARY.



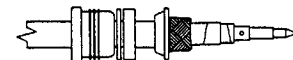
4. SOLDER THE CONTACT ONTO THE CENTER CONDUCTOR, PER MIL-STD-2000, USING 63Sn/37Pb SOLDER. ENSURE THAT THE CONTACT IS BUTTED AGAINST THE CABLE DIELECTRIC. CLEAN ALL FLUX RESIDUES USING APPROPRIATE FLUX CLEANER.



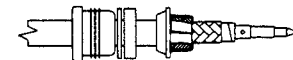
5. SLIDE THE BRAID CLAMP OVER THE END OF THE CABLE ENSURING IT IS BUTTED UP AGAINST THE CABLE JACKET.



6. USING TWEEZERS, FOLD THE OUTER BRAID BACK OVER THE BRAID CLAMP, LEAVING AS MUCH WEAVE AS POSSIBLE. TRIM AWAY EXCESS BRAID AS NECESSARY.

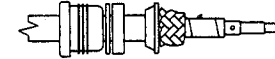


7. SLICE THE ALUMINUM/POLYESTER FOIL LENGTHWISE ABOUT EVERY 1/8". GENTLY ROTATE PIN TO SEPARATE THE FLAT FOIL BRAID AND ALUMINUM/POLYESTER FOIL FROM THE DIELECTRIC. USING TWEEZERS, FOLD BACK ALUMINUM/POLYESTER FOIL OVER THE OUTER BRAID. TRIM AS NECESSARY.

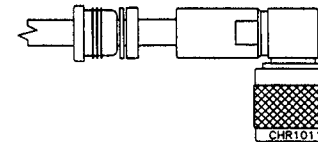


| REVISIONS | | | | DATE | APPROVED |
|-----------|------|------|--------------|--------|-----------|
| ECN | ZONE | REV. | DESCRIPTION | | |
| 14128 | | N/C | NEW RELEASE. | 8/3/01 | C Chapman |

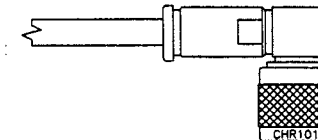
8. USING TWEEZERS, FOLD THE INNER BRAID BACK OVER THE OTHER SHIELDS, LEAVING AS MUCH WEAVE AS POSSIBLE. NOTE: DO NOT UNRAVEL DIELECTRIC WHEN PULLING BACK INNER SHIELD. TRIM AS NECESSARY.



9. SLIDE THE BODY OF THE CONNECTOR OVER THE END OF THE CABLE UNTIL THE CONTACT IS FULLY SEATED INTO THE DIELECTRIC RIDGE INSIDE THE CONNECTOR BODY.



10. SLIDE THE GASKET, SLIP WASHER AND CLAMP NUT INTO REAR OF CONNECTOR BODY. TIGHTEN CLAMP NUT SNUG USING A WRENCH TO SECURE CONNECTOR BODY AND A WRENCH TO TIGHTEN CLAMP NUT. APPLY ADHESIVE HEAT SHRINK IF USED. (RECOMMENDED)



NOTES

- ALL DIMENSIONS ARE IN INCHES.
- CONNECTOR DIMENSIONS ARE FOR REFERENCE ONLY.
- INSTALL PARTS IN ORDER SHOWN.
- PICTORIALS SHOW CONNECTOR INSTALLATION ON ECS 311201 CABLE. WHEN INSTALLING THIS CONNECTOR ON 421201 THERE ARE ONLY 2 SHIELDS WHICH SHOULD BE FOLDED BACK AS SHOWN IN STEP 7 AND STEP 8 WOULD BE OMITTED.

| | | | | | |
|------------------------------------|---------|--|---|---------------|--------------|
| APPROVALS | | DATE | ECS ELECTRONIC CABLE SPECIALISTS FRANKLIN, WI 53132 PHONE: (414) 421-5300 | | |
| DRAWN BY: M TAUBENHEIM | 12/9/97 | TITLE: CUSTOMER SPECIFICATION | | | |
| CHECKED BY: <i>[Signature]</i> | 8/3/01 | RIGHT ANGLE HN PLUG WITH EXTENDED PIN FOR ECS CABLE P/N 311201 AND 421201 | | | |
| DESIGNED BY: | | SIZE | CAGE CODE | LEVEL | ECS PART NO. |
| PROJECT ENG: <i>[Signature]</i> | 8/3/01 | B | 66197 | | CHR1011 |
| ENG. MGR: | | SCALE: | EFFECTIVITY: | SHEET: 1 OF 1 | |

4

3

2

1