

4

3

DWG NO. CHR722-1 SH 1 REV. N/C

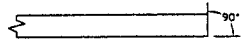
1

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

INSTALLATION INSTRUCTIONS

REVISIONS				DATE	APPROVED
ECN	ZONE	REV.	DESCRIPTION		
13278		N/C	NEW RELEASE.	8/10/01	C. Chapman

1. BEGIN BY CUTTING THE CABLE OFF SQUARE.



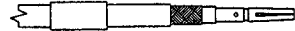
2. WHEN USING AUTOMATIC STRIPPING EQUIPMENT, STRIP CABLE AS SHOWN STARTING WITH L1 AND ENDING WITH L3. TAKE CARE NOT TO NICK THE CONDUCTORS WHILE STRIPPING THE DIELECTRIC AND JACKET. IF AUTOMATIC STRIPPING EQUIPMENT IS NOT AVAILABLE, STRIP ONLY L1 AND L3 AND TRIM EXCESS BRAID AT STEP 10.



3. SLIDE THE FERRULE AND ADHESIVE SHRINK TUBING OVER THE END OF THE CABLE



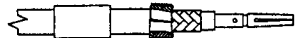
4. SOLDER THE CONTACT ONTO THE CENTER CONDUCTOR, PER MIL-STD-2000, USING 63Sn/37Pb SOLDER OR CRIMP WITH M22520/5-57 DIE (B HEX). ENSURE THE CONTACT IS BUTTED AGAINST THE CABLE DIELECTRIC. CLEAN ALL FLUX RESIDUES USING AN APPROPRIATE FLUX CLEANER.



5. USING TWEEZERS, FOLD THE OUTER BRAID BACK OVER THE CABLE JACKET, LEAVING AS MUCH WEAVE AS POSSIBLE.



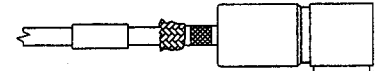
6. SLICE THE ALUMINUM/POLYESTER FOIL LENGTHWISE ABOUT EVERY 1/8". GENTLY ROTATE PIN TO SEPARATE THE FLAT FOIL BRAID AND ALUMINUM/POLYESTER FOIL FROM THE DIELECTRIC. USING TWEEZERS, FOLD BACK ALUMINUM/POLYESTER FOIL OVER THE OUTER BRAID.



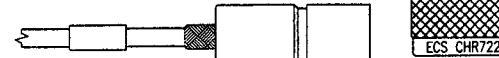
7. USING TWEEZERS, FOLD THE INNER BRAID BACK OVER THE OUTER SHIELD, LEAVING AS MUCH WEAVE AS POSSIBLE.



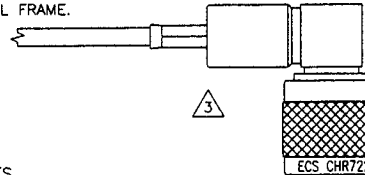
8. SLIDE THE BODY OF THE CONNECTOR OVER THE END OF THE CABLE UNTIL THE NOTCH IN THE CONTACT SEATS WITH THE DIELECTRIC RIDGE INSIDE THE CONNECTOR BODY.



9. FOLD BOTH BRAIDS UP OVER THE NECK OF THE CONNECTOR BODY.

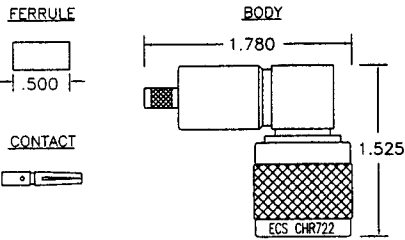


10. SLIDE THE FERRULE UP OVER THE SHIELDS AND AGAINST THE CONNECTOR BODY. TRIM AWAY ANY EXCESS BRAID. CRIMP THE FERRULE ONCE, NEXT TO THE BODY, USING THE M22520/5-57 DIE (A HEX) IN A 22520/5-01 TOOL FRAME.



NOTES

- 1. ALL DIMENSIONS ARE IN INCHES.
- 2. ENSURE HEAT SHRINK IS INSTALLED PRIOR TO CRIMPING CONNECTOR.
- 3. ADHESIVE HEAT SHRINK SHOULD BE APPLIED IN ACCORDANCE WITH ECS WORK INSTRUCTION W1007. CONTACT ECS FOR A COPY OF THIS WORK INSTRUCTION.
- 4. CONNECTOR DIMENSIONS ARE FOR REFERENCE ONLY.
- 5. PICTORIALS SHOW CONNECTOR INSTALLATION ON ECS 311901 CABLE. WHEN INSTALLING THIS CONNECTOR ON 3C142B OR 3C058A THERE ARE ONLY 2 BRAID SHIELDS WHICH SHOULD BE FOLDED BACK AS SHOWN IN STEP 5 AND STEP 6 WOULD BE OMITTED.



DIMENSIONS

SPECIFICATIONS

ELECTRICAL

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

MECHANICAL

CONNECTOR INTERFACE DIMENSION PER MIL-STD-348A FIGURE 317-1.  
 TERMINATION STYLE: INNER CONTACT-SOLDER  
 OUTER CONTACT-FERRULE CRIMP  
 CABLE RETENTION: 30 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  
 FERRULE: ANNEALED, BRASS PER ASTM B16 OR COPPER PER ASTM B124  
 CENTER CONTACT: BRASS PER ASTM B16  
 CABLE CONTACT: BERYLLIUM COPPER PER ASTM B196  
 OUTER CONTACT: BRASS PER ASTM B16  
 DIELECTRIC: TEFLON PER ASTM D1710  
 GASKET: SILICONE RUBBER PER ZZ-R-765

FINISHES

BODY, FERRULE: BRIGHT NICKEL PER QQ-N-290  
 CENTER CONTACT: GOLD PER MIL-G-45204

APPROVALS		DATE	ELECTRONIC CABLE SPECIALISTS FRANKLIN, WI 53132 PHONE: (414) 421-5300	
DRAWN BY: F. FOSSELL		8/10/01	TITLE: CUSTOMER SPECIFICATION	
CHECKED BY: C. Chapman		8/10/01	HN RIGHT ANGLE FOR ECS CABLE 3C142B, 311901, AND 3C058A	
DESIGNED BY:			SIZE: B	CAGE CODE: 66197
PROJECT ENG:			LEVEL:	ECS PART NO. CHR722
ENG. MGR: [Signature]		9/7/01	SCALE:	EFFECTIVITY:
			SHEET: 1 OF 1	

4

3

2

1