

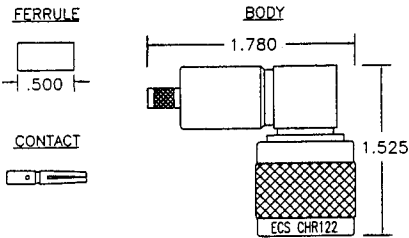
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DWG NO.	CHR122-1	SH	REV.
		1	N/C

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DIMENSIONS  $\Delta$ 

## 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: 50 LBS

## ENVIRONMENTAL

TEMPERATURE RATING: -65° TO +165° C  
 VIBRATION: MIL-STD-202, METHOD 204, COND. B  
 SHOCK: MIL-STD-202, METHOD 213, COND. I  
 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

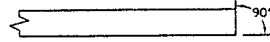
BODY: BRASS PER ASTM B16  
 FERRULE: ANNEALED, BRASS PER ASTM B16 OR COPPER PER ASTM B124  
 CENTER CONTACT: BRASS PER ASTM B16  
 CABLE CONTACT: BERYLLIUM COPPER PER ASTM B196  
 OUTER CONTACT: BRASS PER ASTM B16  
 DIELECTRIC: TEFLON PER ASTM D1710  
 GASKET: SILICONE RUBBER PER ZZ-R-765

## FINISHES

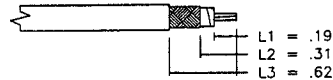
BODY, FERRULE: BRIGHT NICKEL PER QQ-N-290  
 CENTER CONTACT: GOLD PER MIL-G-45204

## INSTALLATION INSTRUCTIONS

1. BEGIN BY CUTTING THE CABLE OFF SQUARE.



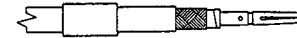
2. WHEN USING AUTOMATIC STRIPPING EQUIPMENT, STRIP CABLE AS SHOWN STARTING WITH L1 AND ENDING WITH L3. TAKE CARE NOT TO NICK THE CONDUCTORS WHILE STRIPPING THE DIELECTRIC AND JACKET. IF AUTOMATIC STRIPPING EQUIPMENT IS NOT AVAILABLE, STRIP ONLY L1 AND L3 AND TRIM EXCESS BRAID AT STEP 10.



3. SLIDE THE FERRULE AND ADHESIVE SHRINK TUBING  $\Delta$  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 (8 HEX). ENSURE THE CONTACT IS BUTTED AGAINST THE CABLE DIELECTRIC. CLEAN ALL FLUX RESIDUES USING AN APPROPRIATE FLUX CLEANER.



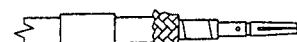
5. USING TWEEZERS, FOLD THE OUTER BRAID BACK OVER THE CABLE JACKET, LEAVING AS MUCH WEAVE AS POSSIBLE.



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.

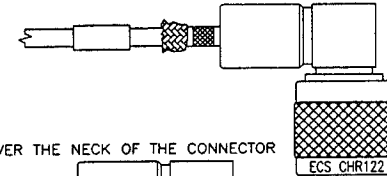


7. USING TWEEZERS, FOLD THE INNER BRAID BACK OVER THE OTHER SHIELDS, LEAVING AS MUCH WEAVE AS POSSIBLE. NOTE: DO NOT UNRAVEL DIELECTRIC WHEN PULLING BACK OUTER SHIELD.

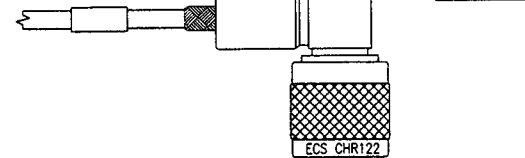


REVISIONS					
ECN	ZONE	REV.	DESCRIPTION	DATE	APPROVED
13278		N/C	NEW RELEASE.	8/10/01	[Signature]

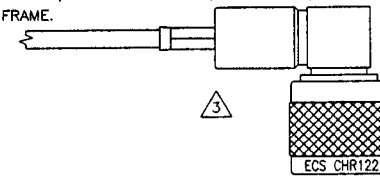
8. SLIDE THE BODY OF THE CONNECTOR OVER THE END OF THE CABLE UNTIL THE NOTCH IN THE CONTACT SEATS WITH THE DIELECTRIC RIDGE INSIDE THE CONNECTOR BODY.



9. FOLD ALL THREE 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 M22520/5-47 OR M22520/5-33 DIE (A HEX) IN A M22520/5-01 TOOL FRAME.



## NOTES

- ALL DIMENSIONS ARE IN INCHES.
- ENSURE HEAT SHRINK IS INSTALLED PRIOR TO CRIMPING CONNECTOR.
- ADHESIVE HEAT SHRINK SHOULD BE APPLIED IN ACCORDANCE WITH ECS WORK INSTRUCTION W1007. CONTACT ECS FOR A COPY OF THIS WORK INSTRUCTION.
- CONNECTOR DIMENSIONS ARE FOR REFERENCE ONLY.
- 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 6 AND STEP 7 WOULD BE OMITTED.

## ALL LENGTHS IN INCHES

APPROVALS	DATE
DRAWN BY: E. FOSSELL	8/10/01
CHECKED BY: [Signature]	8/10/01
DESIGNED BY:	
PROJECT ENG:	
ENG. WORK: [Signature]	7/7/01



ELECTRONIC CABLE SPECIALISTS  
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TITLE:	CUSTOMER SPECIFICATION			
	HN RIGHT ANGLE FOR ECS CABLE 311201, 421201			
SIZE	CAGE CODE	LEVEL	ECS PART NO.	
B	66197		CHR122	
SCALE:	EFFECTIVITY:	SHEET: 1 OF 1		

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