

4

3

DWG NO. CHR022-1 SH 1 REV. A

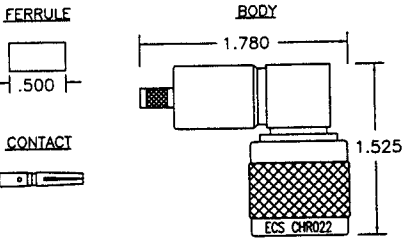
1

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
14457		A	CORRECT DWG NUMBER	9/18/01	[Signature]

D



DIMENSIONS 4

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. 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

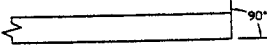
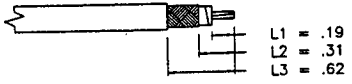



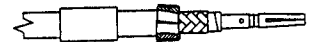

MATERIALS
 BODY: BRASS PER ASTM B16
 FERRULE: ANNEALED, BRASS PER ASTM B16 OR COPPER PER ASTM B124
 CENTER CONTACT: BRASS PER ASTM B16
 CABLE CONTACT: BERYLLIUM COPPER PER ASTM B196
 OUTER CONTACT: BRASS PER ASTM B16
 DIELECTRIC: TEFLON PER ASTM D1710
 GASKET: SILICONE RUBBER PER ZZ-R-765

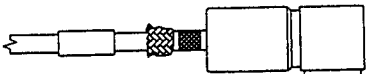
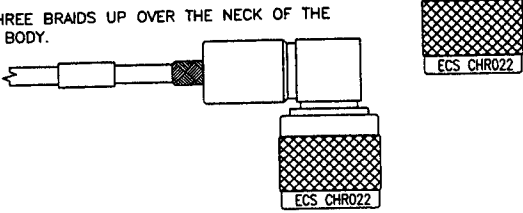
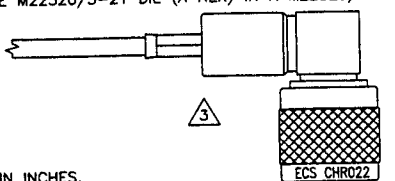
FINISHES
 BODY, FERRULE: BRIGHT NICKEL PER QQ-N-290
 CENTER CONTACT: GOLD PER MIL-G-45204

C

B

A

- BEGIN BY CUTTING THE CABLE OFF SQUARE. 
- 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. 
 - L1 = .19
 - L2 = .31
 - L3 = .62
- SLIDE THE FERRULE AND ADHESIVE SHRINK TUBING 2 OVER THE END OF THE CABLE. 
- SOLDER THE CONTACT ONTO THE CENTER CONDUCTOR, PER MIL-STD-2000, USING 63Sn/37Pb SOLDER OR CRIMP WITH Y1757 DIE. ENSURE THE CONTACT IS BUTTED AGAINST THE CABLE DIELECTRIC. CLEAN ALL FLUX RESIDUES USING AN APPROPRIATE FLUX CLEANER. 
- USING TWEEZERS, FOLD THE OUTER BRAID BACK OVER THE CABLE JACKET, LEAVING AS MUCH WEAVE AS POSSIBLE. 
- 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. 
- 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. 

- 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. 
- FOLD ALL THREE BRAIDS UP OVER THE NECK OF THE CONNECTOR BODY. 
- 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 M22520/5-21 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.

ALL LENGTHS IN INCHES		ELECTRONIC CABLE SPECIALISTS FRANKLIN, WI 53132 PHONE: (414) 421-5300	
APPROVALS	DATE	TITLE: CUSTOMER SPECIFICATION	
DRAWN BY: F. FOSSELL	8/10/01	HN RIGHT ANGLE PLUG FOR ECS CABLE 310801	
CHECKED BY: F. FOSSELL	8/10/01	SIZE: B	CAGE CODE: 66197
DESIGNED BY:		LEVEL:	ECS PART NO. CHR022
PROJECT ENG:		SCALE:	EFFECTIVITY:
ENG. MGR: DAVID E. KNOLL	9/7/01	SHEET: 1 OF 1	

D

C

B

A

4

3

2

1