DWG NO.	SH	REV.
CTR922-I	1	E

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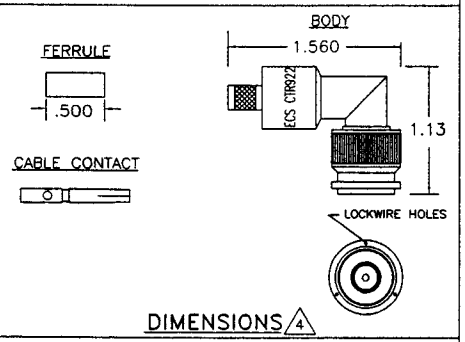


DIMENSIONS 4

SPECIFICATIONS

ELECTRICAL
IMPEDANCE: 50 OHMS NOMINAL
FREQUENCY RANGE: 0–11 GHz
VSWR: 1.2:1 MAXIMUM DC TO 2GHz
INSERTION LOSS: .1dB MAXIMUM DC TO 2GHz
WORKING VOLTAGE: 500 VRMS @ SEA LEVEL
DIELECTRIC WITHSTANDING: 1500 VRMS @ SEA LEVEL
INSULATION RESISTANCE: 5000 MEGOHMS MINIMUM @ 500 VOLTS DC

MECHANICAL
CONNECTOR INTERFACE: DIMENSIONS PER MIL-STD-348A FIGURE 313-1
TERMINATION STYLE: CABLE CONTACT-SOLDER OR CRIMP FERRULE-CRIMP
CABLE RETENTION: 40 LBS

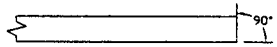
ENVIRONMENTAL
TEMPERATURE RATING: -65° TO +165° C
VIBRATION: MIL-STD-202, METHOD 204, COND. B
SHOCK: MIL-STD-202, METHOD 213, COND. I
THERMAL SHOCK: MIL-STD-202, METHOD 107, COND. B
CORROSION: MIL-STD-202, METHOD 101, COND. B
MOISTURE RESISTANCE: MIL-STD-202, METHOD 106

MATERIALS
BODY: BRASS PER QQ-B-626
FERRULE: ANNEALED BRASS PER QQ-B-626
CABLE CONTACT: BERYLLIUM COPPER PER QQ-C-530
CENTER CONTACT: BRASS PER QQ-B-626
OUTER CONTACT: BERYLLIUM COPPER PER QQ-C-530
DIELECTRIC: TEFLON PER L-P-403
GASKET: SILICONE RUBBER PER ZZ-R-765

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

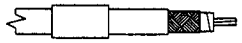
INSTALLATION INSTRUCTIONS

1. BEGIN BY CUTTING THE CABLE OFF SQUARE.

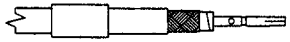


2. WHEN USING AUTOMATIC STRIPPING EQUIPMENT, STRIP CABLE AS SHOWN STARTING WITH L1 AND ENDING WITH L3. TAKE CARE NOT TO NICK THE CONDUCTORS WHILE STRIPPING THE DIELECTRIC AND JACKET. IF AUTOMATIC STRIPPING EQUIPMENT IS NOT AVAILABLE, STRIP ONLY L1 AND L3 AND TRIM EXCESS BRAID AT STEP 10.

3. SLIDE THE FERRULE AND ADHESIVE SHRINK TUBING OVER THE END OF THE CABLE. 2



4. SOLDER THE CONTACT ONTO THE CENTER CONDUCTOR, PER MIL-STD-2000, USING 63Sn/37Pb SOLDER OR CRIMP WITH M22520/5-13 DIE (B HEX). ENSURE THE CONTACT IS BUTTED AGAINST THE CABLE DIELECTRIC. CLEAN ALL FLUX RESIDUES USING AN APPROPRIATE FLUX CLEANER.

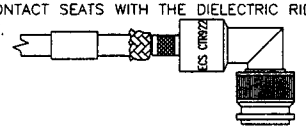


5. USING TWEEZERS, FOLD THE OUTER BRAID BACK OVER THE CABLE JACKET, LEAVING AS MUCH WEAVE AS POSSIBLE.

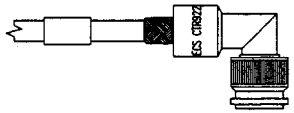
6. SLICE THE ALUMINUM/POLYESTER FOIL LENGTHWISE ABOUT EVERY 1/8". GENTLY ROTATE PIN TO SEPARATE THE FLAT FOIL BRAID AND ALUMINUM/POLYESTER FOIL FROM THE DIELECTRIC. USING TWEEZERS, FOLD BACK ALUMINUM/POLYESTER FOIL OVER THE OUTER BRAID.

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

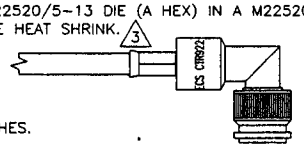
8. SLIDE THE BODY OF THE CONNECTOR OVER THE END OF THE CABLE UNTIL THE NOTCH IN THE CONTACT SEATS WITH THE DIELECTRIC RIDGE INSIDE THE CONNECTOR BODY.



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 M22520/5-13 DIE (A HEX) IN A M22520/5-01 TOOL FRAME. APPLY ADHESIVE HEAT SHRINK. 3



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 WI0007. CONTACT ECS FOR A COPY OF THIS WORK INSTRUCTION.
4. CONNECTOR DIMENSIONS ARE FOR REFERENCE ONLY.
5. DELETED.
6. DELETED.
7. PICTORIALS SHOW CONNECTOR INSTALLATION ON ECS 311501 AND 311601 CABLE. WHEN INSTALLING THIS CONNECTOR ON 421601 THERE ARE ONLY ONLY 2 SHIELDS WHICH SHOULD BE FOLDED BACK AS SHOWN IN STEP 6 AND STEP 7 WOULD BE OMITTED.

REVISIONS

ECN	ZONE	REV.	DESCRIPTION	DATE	APPROVED
2355		N/C	NEW RELEASE.	1/20/95	JBH
3330		A	CHANGED TITLE BLOCK.	8/31/95	JBH
4444		B	SEE ECN# 4444	8/13/96	JBH
6189		C	SEE ECN# 6189	9/10/98	MCT
12885		D	SEE ECN	12/7/00	CAC
13466		E	SEE ECN	7/23/01	C Chapman

ALL LENGTHS IN INCHES

APPROVALS	DATE
DRAWN BY: JB HACKETT	1/16/95
CHECKED BY: T MEYERS	1/20/95
DESIGNED BY:	
PROJECT ENG: H STOIBER	1/20/95
ENG. MGR: JB HACKETT	1/20/95

ECS ELECTRONIC CABLE SPECIALISTS
FRANKLIN, WI 53132
PHONE: (414) 421-5300

TITLE: CUSTOMER SPECIFICATION
TNC RIGHT ANGLE PLUG FOR ECS CABLE 311601, 311501, 421601

SIZE	CAGE CODE	LEVEL	PART NO.
B	66197		CTR922

SCALE: | FILE NO F:\E\SPEC\CONN\INST\CTR922 | SHEET: 1 OF 1