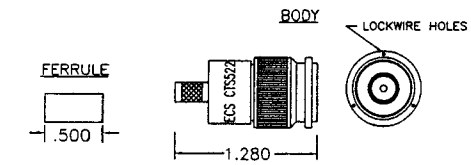
DWG NO.	SH	REV.
CTS522-1	1	A

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DIMENSIONS (3)

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 (TNC)
TERMINATION STYLE: CABLE CONTACT–SOLDER OR CRIMP
FERRULE–CRIMP
CABLE RETENTION: 15 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

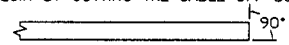
BODY: BRASS PER ASTM B16
FERRULE: ANNEALED, BRASS PER ASTM B16 OR COPPER PER ASTM B124
CABLE CONTACT: BRASS PER ASTM B16
OUTER CONTACT: BERYLLIUM COPPER PER ASTM B196
DIELECTRIC: TEFLON PER D1710
GASKET: SILICONE RUBBER PER ZZ-R-765

FINISHES

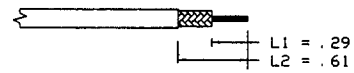
BODY, FERRULE AND OUTER CONTACT: BRIGHT NICKEL PER QQ-N-290
CENTER CONTACT: GOLD PER MIL-G-45204

INSTALLATION INSTRUCTIONS

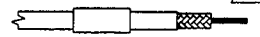
1. BEGIN BY CUTTING THE CABLE OFF SQUARE.



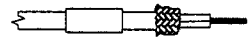
2. STRIP THE CABLE AS SHOWN, BEGINNING WITH L1 AND ENDING WITH L2. TAKE CARE NOT TO NICK THE CONDUCTORS WHILE STRIPPING THE DIELECTRIC AND JACKET. THE USE OF A STRIPPER DESIGNED FOR COAXIAL CABLE IS RECOMMENDED.



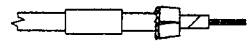
3. SLIDE THE FERRULE AND ADHESIVE SHRINK TUBING OVER THE END OF THE CABLE. (1)



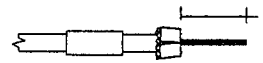
4. USING TWEEZERS, FOLD THE OUTER BRAID BACK OVER THE CABLE JACKET, LEAVING AS MUCH WEAVE AS POSSIBLE.



5. SLIT FOIL LONGITUDINALLY AND FOLD BACK OVER THE OTHER SHIELD.



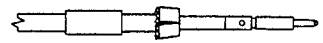
6. REMOVE THE DIELECTRIC FROM THE CENTER CONDUCTOR BACK TO THE BEGINNING OF THE FOLDED BACK SHIELD, APPROXIMATELY .60 INCHES FROM THE END OF THE CENTER CONDUCTOR. BE CAREFUL NOT TO NICK THE CENTER CONDUCTOR. THERMAL STRIPPERS ARE RECOMMENDED.



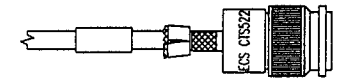
7. INSTALL DIELECTRIC STIFFENER OVER CENTER CONDUCTOR, ENSURING THAT IT IS BUTTED AGAINST THE CABLE DIELECTRIC.



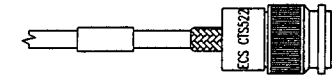
8. ENSURE THAT THE CONTACT IS BUTTED AGAINST THE DIELECTRIC STIFFENER. TERMINATE CONTACT PER OPTION a OR b BELOW.
   a) SOLDER CONTACT ONTO CENTER CONDUCTOR, PER MIL-STD-2000, USING 63Sn/37Pb SOLDER. CLEAN FLUX RESIDUE USING APPROPRIATE CLEANER.
   b) CRIMP CONTACT ONTO CENTER CONDUCTOR USING A M22520/5-09 DIE (B HEX).



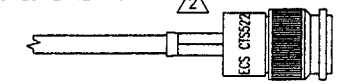
9. SLIDE THE BODY OF THE CONNECTOR OVER THE END OF THE CABLE UNTIL THE NOTCH IN THE CONTACT SEATS INTO THE RIDGE INSIDE THE CONNECTOR DIELECTRIC.
   CAUTION: PUSH CABLE INTO THE CONNECTOR STRAIGHT TO AVOID KINKING THE CABLE.



10. FOLD BOTH SHIELDS BACK OVER THE NECK OF THE CONNECTOR BODY.



11. 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 A M22520/5-09 DIE (A HEX) IN A M22520/5-01 TOOL FRAME. APPLY ADHESIVE HEAT SHRINK. (2)



NOTES

(1) ENSURE HEAT SHRINK IS INSTALLED PRIOR TO CRIMPING CONNECTOR.

(2) ADHESIVE HEAT SHRINK SHOULD BE APPLIED IN ACCORDANCE WITH ECS WORK INSTRUCTION WI007. CONTACT ECS FOR A COPY OF THIS WORK INSTRUCTION.

(3) CONNECTOR DIMENSIONS ARE FOR REFERENCE ONLY.

REVISIONS					
ECN	ZONE	REV.	DESCRIPTION	DATE	APPROVED
12488		N/C	NEW RELEASE	12/7/00	DEK
13467		A	SEE ECN	7/30/01	C Chapman

ALL LENGTHS IN INCHES

APPROVALS	DATE
DRAWN BY: C CHAPMAN	9/20/00
CHECKED BY: D KNOLL	12/7/00
DESIGNED BY:	
PROJECT ENG:	
ENG. MGR: D KNOLL	12/7/00

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PHONE: (414) 421-5300

TITLE: CUSTOMER SPECIFICATION
TNC STRAIGHT PLUG
FOR ECS CABLE 432101 AND 532101

SIZE	CAGE CODE	LEVEL	PART NO.
B	66197	C	CTS522

SCALE: | EFFECTIVITY: | SHEET: 1 OF 1