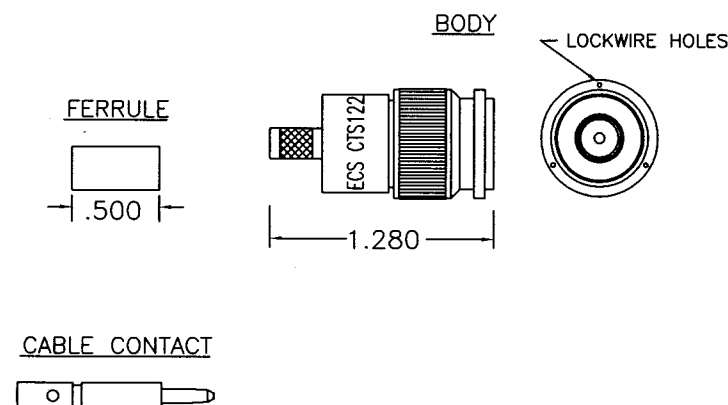


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DIMENSIONS 4

## 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: 50 LBS

## ENVIRONMENTAL

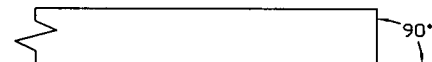
TEMPERATURE RATING: -65° TO +165°  
VIBRATION: MIL-STD-202, METHOD 204, COND. B  
SHOCK: MIL-STD-202, METHOD 213, COND. I  
THERMAL SHOCK: MIL-STD-202, METHOD 107, COND. B  
CORROSION: MIL-STD-202, METHOD 101, COND. B  
MOISTURE RESISTANCE: MIL-STD-202, METHOD 106

## MATERIALS

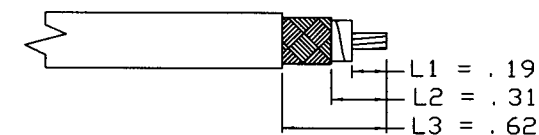
BODY: BRASS PER QQ-B-626  
FERRULE: ANNEALED BRASS PER QQ-B-626  
CABLE CONTACT: BRASS PER QQ-B-626  
OUTER CONTACT: BERYLLIUM COPPER PER QQ-C-530  
DIELECTRIC: TEFLON PER L-P-403  
GASKET: SILICONE RUBBER PER ZZ-R-765  
FINISHES  
BODY, FERRULE AND OUTER CONTACT: BRIGHT NICKEL  
PER QQ-N-290  
CENTER CONTACT: GOLD PER MIL-G-45204

## INSTALLATION INSTRUCTIONS

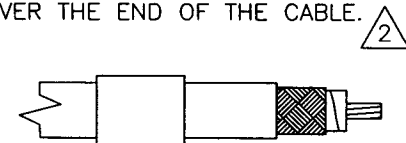
1. BEGIN BY CUTTING THE CABLE OFF SQUARE.



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.



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.



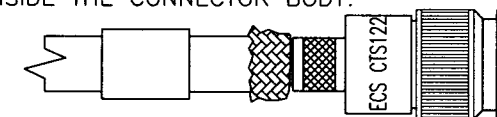
7. USING TWEEZERS, FOLD THE INNER BRAID BACK OVER THE OTHER SHIELDS, LEAVING AS MUCH WEAVE AS POSSIBLE. NOTE: DO NOT UNRAVEL DIELECTRIC WHEN PULLING BACK INNER SHIELD.



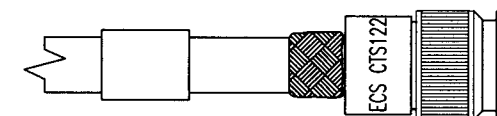
## REVISIONS

ECN	ZONE	REV.	DESCRIPTION	DATE	APPROVED
2354		N/C	NEW RELEASE.	8/22/95	JBH
4442		A	SEE ECN# 4442	8/13/96	JBH
6189		B	SEE ECN# 6189	9/10/98	MCT
12886		C	SEE ECN	12/7/00	DEK
13467		D	SEE ECN	7/31/01	C. Chapman

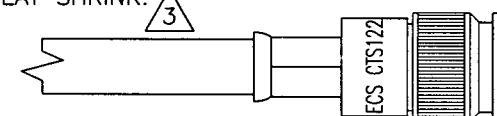
8. SLIDE THE BODY OF THE CONNECTOR OVER THE END OF THE CABLE UNTIL THE NOTCH IN THE CONTACT SEATS INTO THE DIELECTRIC RIDGE INSIDE THE CONNECTOR BODY.



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 A M22520/5-47 DIE IN A M22520/5-01 TOOL FRAME. APPLY ADHESIVE HEAT SHRINK.



## 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 W10007. CONTACT ECS FOR A COPY OF THIS WORK INSTRUCTION.
- CONNECTOR DIMENSIONS ARE FOR REFERENCE ONLY.
- DELETED.
- DELETED.
- 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		ECS ELECTRONIC CABLE SPECIALISTS FRANKLIN, WI 53132 PHONE: (414) 421-5300			
APPROVALS		DATE		TITLE: CUSTOMER SPECIFICATION	
DRAWN BY: KW HOFFMAN		8/21/95		TNC STRAIGHT PLUG FOR ECS CABLE 311201 AND 421201	
CHECKED BY: M TAUBENHEIM		8/22/95		SIZE: B 66197	
DESIGNED BY:				LEVEL: PART NO. CTS122	
PROJECT ENG:				EFFECTIVITY: F:\E\SPEC\CONN\INST\CTS122	
ENG. MGR: JB HACKETT		8/22/95		SHEET: 1 OF 1	