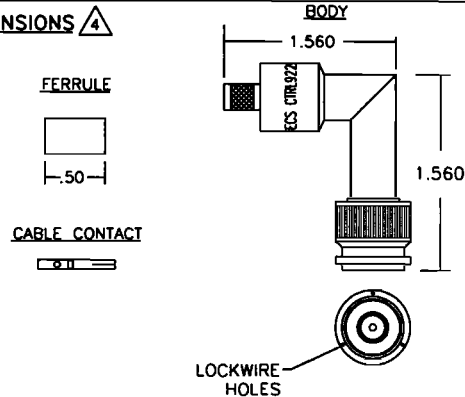


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### DIMENSIONS



### 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

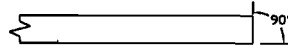
BODY: BRASS PER QQ-B-626  
 FERRULE: ANNEALED BRASS PER QQ-B-626  
 CABLE CONTACT: BERYLLIUM COPPER PER QQ-C-530  
 CENTER CONTACT: BRASS PER QQ-B-626  
 OUTER CONTACT: BERYLLIUM COPPER PER QQ-C-530  
 DIELECTRIC: TEFLON PER L-P-403  
 GASKET: SILICON RUBBER PER ZZ-R-765

### FINISHES

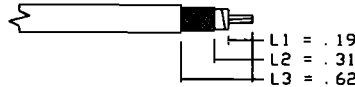
BODY, FERRULE AND OUTER CONTACT: BRIGHT  
 NICKEL PER QQ-N-290  
 CENTER CONTACT: GOLD PER MIL-G-45204


### 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 M22520/5-13 DIE (B HEX). ENSURE THE CONTACT IS BUTTED AGAINST THE CABLE DIELECTRIC. CLEAN ALL FLUX RESIDUES USING AN APPROPRIATE FLUX CLEANER.



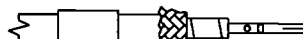
5. USING TWEEZERS, FOLD THE OUTER BRAID BACK OVER THE CABLE JACKET, LEAVING AS MUCH WEAVE AS POSSIBLE.



6. SLICE THE ALUMINUM/POLYESTER FOIL LENGTHWISE ABOUT EVERY 1/8". GENTLE 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.

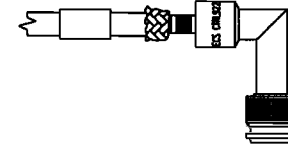


7. USING TWEEZERS, FOLD THE INNER BRAID BACK OVER THE OTHER SHIELDS, LEAVING AS MUCH WEAVE AS POSSIBLE. NOTE: DO NOT UNRAVEL DIELECTRIC WHEN PULLING BACK INNER SHIELD.

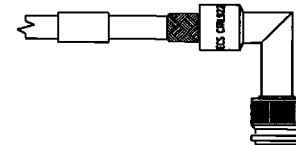



REVISIONS					
ECN	ZONE	REV.	DESCRIPTION	DATE	APPROVED
40680	B2	C	ADDED FLAG NOTE 6	7/6/10	CAC

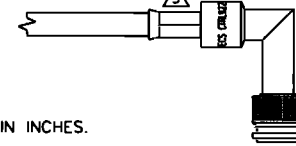
8. SLIDE THE BODY OF THE CONNECTOR OVER THE END OF THE CABLE UNTIL THE NOTCH IN THE CONTACT SEATS WITH THE DIELECTRIC RIDGE INSIDE THE CONNECTOR BODY.







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. 



### NOTES

1. 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.  
 5. PICTORIALS SHOW CONNECTOR INSTALLATION ON ECS 311501 AND 311601 CABLE. WHEN INSTALLING THIS CONNECTOR ON 421601 THERE ARE ONLY 2 SHIELDS WHICH SHOULD BE FOLDED BACK AS SHOWN IN STEP 6 AND STEP 7 WOULD BE OMITTED.  
 WHEN TERMINATING TO 421601 CABLE CENTER CONTACT SHALL BE SOLDERED. DO NOT CRIMP.

APPROVALS		DATE	ECS ELECTRONIC CABLE SPECIALISTS FRANKLIN, WI 53132 PHONE: (414) 421-5300			
DRAWN BY: M TAUBENHEIM		12/08/98	TITLE: CUSTOMER SPECIFICATION 90 DEG. TNC EXTENDED BODY PLUG FOR ECS COAX CABLES 311601, 311501, 421601			
CHECKED BY: C CHAPMAN		12/08/98				
DESIGNED BY:			SIZE B 66197	CAGE CODE	LEVEL	PART NO. CTRL922
PROJECT ENG: M TAUBENHEIM		12/08/98	SCALE:			
ENG. MGR: PETER JOBE		06/04/99	FILE NO: F:\ECSPEC\CONV\INST\CTRL922 SHEET: 1 OF 1			