

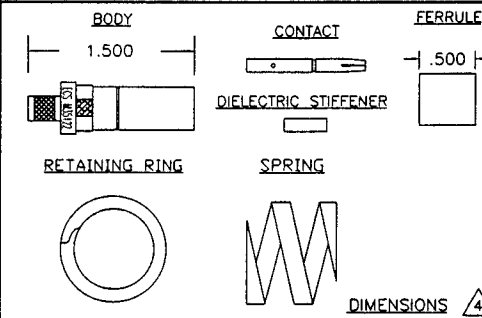
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DWG NO.	M35122-1	SH	1	REV.	D
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#### SPECIFICATIONS

##### ELECTRICAL

IMPEDANCE: 50 OHMS NOMINAL  
 FREQUENCY RANGE: 0-6 GHZ  
 VSWR: 1.70:1 MAXIMUM  
 INSERTION LOSS: 0.3 dB @ 6 GHZ  
 DIELECTRIC WITHSTANDING: 2500 VRMS @ SEA LEVEL  
 WORKING VOLTAGE: 1000 VRMS @ SEA LEVEL  
 INSULATION RESISTANCE: 5000 MEGOHMS MINIMUM @ 500 VOLTS DC

##### MECHANICAL

MECHANICAL INTERFACE PER ARINC SPEC 600  
 FIGURE 19-54.2  
 TERMINATION STYLE: INNER CONTACT-SOLDER OR CRIMP  
 OUTER CONTACT-FERRULE CRIMP  
 CABLE RETENTION: 20 LBS

##### ENVIRONMENTAL

TEMPERATURE RATING: -65° TO +200°  
 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

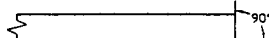
BODY: BRASS PER QQ-B-626  
 FERRULE: ANNEALED BRASS PER QQ-B-626  
 CENTER CONTACT: BERYLLIUM COPPER PER QQ-C-530  
 DIELECTRIC: TEFLON PER L-P-403

##### FINISHES

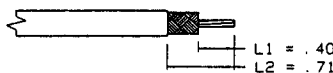
FERRULE: BRIGHT NICKEL PER QQ-N-290  
 BODY, CENTER CONTACT: GOLD PER MIL-G-45204

#### INSTALLATION INSTRUCTIONS

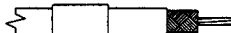
1. BEGIN BY CUTTING THE CABLE OFF SQUARE.



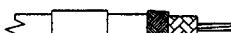
2. STRIP THE CABLE AS SHOWN, BEGINNING WITH L1 AND ENDING WITH L2. TAKE CARE NOT TO NICK THE CONDUCTORS WHILE STRIPPING THE DIELECTRIC AND JACKET. THE USE OF A STRIPPER DESIGNED FOR COAXIAL CABLE IS RECOMMENDED.



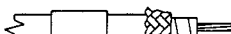
3. SLIDE THE FERRULE AND ADHESIVE SHRINK TUBING OVER THE END OF THE CABLE. 2



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



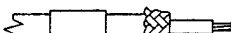
6. USING TWEEZERS, FOLD THE INNER BRAID BACK OVER THE OUTER SHIELDS, LEAVING AS MUCH WEAVE AS POSSIBLE.



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



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



8. 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 DIELECTRIC STIFFENER. CLEAN ALL FLUX RESIDUES USING AN APPROPRIATE FLUX CLEANER.



REVISIONS					
ECN	ZONE	REV.	DESCRIPTION	DATE	APPROVED
5166		A	CORRECTED INSTALL. INSTR. STEP NO'S	10/30/96	JBH
6189		B	CHANGED AND ADDED DIMENSIONS	09/15/98	MCT
9772		C	CHANGED STRIP DIMENSIONS	09/02/99	MCT
12963		D	SEE ECN	8/14/01	<i>[Signature]</i>

10. 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. CAUTION: PUSH CABLE INTO THE CONDUCTOR STRAIGHT TO AVOID KINKING THE CABLE.



11. FOLD ALL THE BRAIDS OVER THE NECK OF THE CONNECTOR BODY.



12. 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 M22520/5-57 DIE (A HEX) IN A M22520/5-01 TOOL FRAME. APPLY ADHESIVE HEAT SHRINK. 3



#### NOTES

- 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 W1007. CONTACT ECS FOR A COPY OF THIS WORK INSTRUCTION.
- 4 CONNECTOR DIMENSIONS ARE FOR REFERENCE ONLY.
- DELETED.
- DELETED.

ALL LENGTHS IN INCHES		 ELECTRONIC CABLE SPECIALISTS FRANKLIN, WI 53132 PHONE: (414) 421-5300	
APPROVALS	DATE	TITLE: <b>CUSTOMER SPECIFICATION</b>	
DRAWN BY: KW HOFFMAN	11/8/95	MODIFIED SIZE 1, ARINC 600 RF CONNECTOR FOR ECS CABLE 352001	
CHECKED BY: M TAUBENHEIM	1/20/97	SIZE	CAGE CODE
DESIGNED BY:		LEVEL	
PROJECT ENG:		PART NO.	
ENG. MGR:		M35122	
JB HACKETT	1/20/97	SCALE:	FILE NO F:\E\SPEC\CONN\INST\M35122-1 SHEET: 1 OF 3

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