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DWG NO.

CAS982-1

SHORT

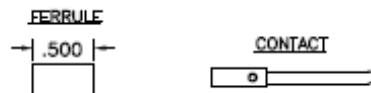
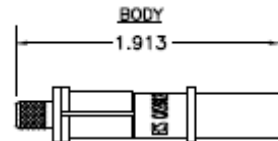
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SPECIFICATIONS

ELECTRICAL

IMPEDANCE: 50 OHMS NOMINAL
FREQUENCY RANGE: 0-500 AND 1500-1700 MHz
VSWR: 1.30:1 MAXIMUM 0-500 MHz
VSWR: 1.60:1 MAXIMUM 1500-1700 MHz
INSERTION LOSS: .3 dB MAXIMUM DC TO 2 GHz
WORKING VOLTAGE: 325 VRMS @ SEA LEVEL
DIELECTRIC WITHSTANDING: 1000 VRMS @ SEA LEVEL
INSULATION RESISTANCE: 5000 MEGOHMS MINIMUM
@ 500 VOLTS DC

MECHANICAL

CONNECTOR INTERFACE: DIMENSIONS PER ARINC SPEC 600
FIGURE 19-75.2
TERMINATION STYLE: CENTER CONTACT-SOLDER
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: BERYLLIUM COPPER PER ASTM B196
FERRULE: ANNEALED, BRASS PER ASTM B16 OR
COPPER PER ASTM B124
CENTER CONTACT: BERYLLIUM COPPER PER ASTM B196
INNER BODY DIELECTRIC: TEFLON PER ASTM D1710
OUTER CONTACT COVER: STAINLESS STEEL PER QQ-S-763
EXTRACTION SLEEVE: NYLON

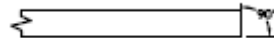
FINISHES

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

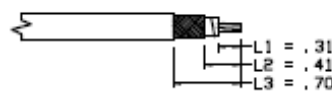
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INSTALLATION INSTRUCTIONS

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.



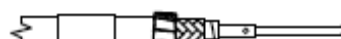
4. SOLDER THE CONTACT ONTO THE CENTER CONDUCTOR, PER MIL-STD-2000, USING 63Sn/37Pb SOLDER. ENSURE THE CONTACT IS BUTTED AGAINST THE CABLE DIELECTRIC. CLEAN ALL FLUX RESIDUES USING AN APPROPRIATE FLUX CLEANER.



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
27052	-	N/C	NEW RELEASE	1/12/07	DEK
40680	B2	A	ADDED FLAG NOTE 5	7/6/10	CAC
50230	B4	B	ADDED ENVIRONMENTAL DATA	7/31/13	CAC
57502	B3	C	REMOVED CRIMP FROM NOTE 4, DEL FN 5	12/18/15	CAC
79559	NTS	D	UPDATED NOTE 3, ADDED NOTE 6		

8. SLIDE THE BODY OF THE CONNECTOR OVER THE END OF THE CABLE UNTIL 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

- 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.
- ENSURE HEAT SHRINK IS INSTALLED PRIOR TO CRIMPING CONNECTOR.
- SHRINK THE ADHESIVE TUBING OVER THE FERRULE, WITHIN .125 OF THE BACK OF THE CONNECTOR
- TO REMOVE CONTACT FROM ARINC CONNECTOR SLIDE EXTRACTION SLEEVE TOWARD MATING END OF CONNECTOR.
- DELETED.
- NOT COMPATIBLE WITH AMPHENOL ARINC CONNECTORS

ALL LENGTHS IN INCHES

APPROVALS	DATE
DRAWN BY: C. CHAPMAN	11/15/06
CHECKED BY: DAVID E. KNOLL	1/12/07
DESIGNED BY:	
PROJECT ENG:	
ENG. MGR: DAVID E. KNOLL	1/12/07



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TITLE: CUSTOMER SPECIFICATION

ARINC 600 SIZE 8 SOCKET
FOR ECS CABLE 311501, 311601 AND 421601

SIZE	CAGE CODE	LEVEL	PART NO.
B	66197		CAS982
SCALE:	FILE NO		SHEET: 1 OF 1

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