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INSTALLATION INSTRUCTIONS

REVISIONS					
ECN	ZONE	REV.	DESCRIPTION	DATE	APPROVED
15557	-	N/C	NEW RELEASE	6/30/02	D KNOLL
19541	A4	A	CHANGED CENTER CONTACT MATERIAL	3/29/04	D KNOLL
62375	C3 B1	B	CHANGED STRIP LENGTH ADDED INSTALLATION STEP 11	4/28/07	R. Jay

- BEGIN BY CUTTING THE CABLE OFF SQUARE.



- 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.



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



- 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.



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



- 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.



- 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.



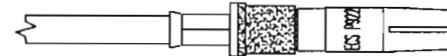
- SLIDE THE BODY OF THE CONNECTOR OVER THE END OF THE CABLE UNTIL THE CONTACT SEATS WITH THE DIELECTRIC RIDGE INSIDE THE CONNECTOR BODY.



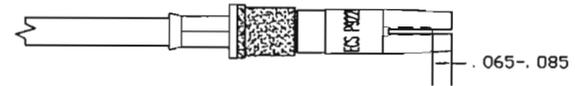
- FOLD ALL THREE BRAIDS UP OVER THE NECK OF THE CONNECTOR BODY.



- 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.

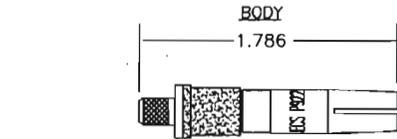


- USE A CALIBRATED GAUGE TO ENSURE THAT THE DISTANCE FROM THE TIP OF THE CENTER CONDUCTOR TO THE EDGE OF THE MATING END OF THE OUTER BODY IS WITHIN THE SPECIFIED RANGE OF 0.065-0.085.

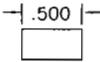


NOTES

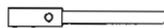
- PICTORIALS SHOW CONNECTOR INSTALLATION ON ECS 311501 AND 311601 CABLE. WHEN INSTALLING THIS CONNECTOR ON 421601 THERE ARE ONLY ONLY 2 SHIELDS WHICH SHOULD BE FOLDED BACK AS SHOWN IN STEP 6 AND STEP 7 WOULD BE OMITTED.



FERRULE



CONTACT



SPECIFICATIONS

ELECTRICAL

IMPEDANCE: 50 OHMS NOMINAL
 FREQUENCY RANGE: 0-500 AND 1500-1700 MHz
 VSWR: 1.30:1 MAXIMUM 0-500 MHz.
 1.50:1 MAXIMUM 1500-1700 MHz.
 INSERTION LOSS: .1dB MAXIMUM DC TO 2GHz
 WORKING VOLTAGE: 325 VRMS @ SEA LEVEL
 DIELECTRIC WITHSTANDING: 750 VRMS @ SEA LEVEL
 INSULATION RESISTANCE: 5000 MEGOHMS MINIMUM
 @ 500 VOLTS DC

MECHANICAL

CONNECTOR INTERFACE: DIMENSIONS PER ARINC SPEC 600
 FIGURE 19-60.1
 TERMINATION STYLE: CENTER CONTACT-SOLDER
 FERRULE-CRIMP

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
 SLEEVE: NYLON

FINISHES

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

ALL LENGTHS IN INCHES		ELECTRONIC CABLE SPECIALISTS FRANKLIN, WI 53132 PHONE: (414) 421-5300	
APPROVALS	DATE	TITLE: CUSTOMER SPECIFICATION	
DRAWN BY: C. CHAPMAN	05/07/02	SIZE 5, ARINC 600 RF CONNECTOR FOR ECS CABLE 311501, 311601 AND 421601	
CHECKED BY: DAVID E. KNOLL	6/30/02	SIZE B 66197	LEVEL PART NO. P922
DESIGNED BY:		SCALE:	FILE NO.
PROJECT ENG:			
ENG. MGR: DAVID E. KNOLL	6/30/02		SHEET: 1 OF 1