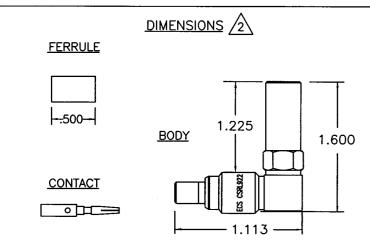
D

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SPECIFICATIONS

ELECTRICAL

IMPEDANCE: 50 OHMS NOMINAL FREQUENCY RANGE: 0-18 GHz VSWR: 1.2:1 MAXIMUM DC TO 2 GHz.

WORKING VOLTAGE: 500 VRMS @ SEA LEVEL DIELECTRIC WITHSTANDING: 1500 VRMS @ SEA LEVEL INSULATION RESISTANCE: 5000 MEGOHMS MINIMUM

INSERTION LOSS: .1 dB MAXIMUM DC TO 2 GHz.

MECHANICAL @ 500 VOLTS DC

CONNECTOR INTERFACE DIMENSION PER MIL-STD-348A FIGURE 310-1 (SMA)

TERMINATION STYLE: INNER CONTACT—SOLDER OR CRIMP
OUTER CONTACT—FERRULE CRIMP

CABLE RETENTION: 40 LBS

ENVIRONMENTAL

TEMPERATURE RATING: -65° TO +165° C
VIBRATION: MIL-STD-202, METHOD 204, COND. D
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: STAINLESS STEEL PER QQ-S-763 FERRULE: ANNEALED BRASS PER QQ-B-626

CABLE CONTACT: BRASS PER QQ-B-626

CONN. CONTACT: BERYLLIUM COPPER PER QQ-C-530 OUTER CONTACT: STAINLESS STEEL PER QQ-S-763

DIELECTRIC: TEFLON PER L-P-403

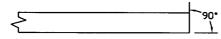
GASKET: SILICON RUBBER PER ZZ-R-765

FINISHES

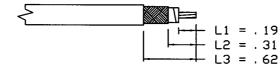
BODY: STAINLESS STEEL PER QQ-S-763 CONTACTS: GOLD PER MIL-G-45204

INSTALLATION INSTRUCTIONS

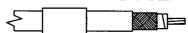
1. BEGIN BY CUTTING THE CABLE OFF SQUARE.



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.



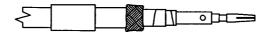
3. SLIDE THE FERRULE AND ADHESIVE SHRINK TUBING 1 OVER THE END OF THE CABLE.



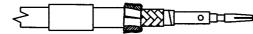
4. SOLDER THE CONTACT ONTO THE CENTER CONDUCTOR, PER MIL-STD-2000, USING 63Sn/37Pb SOLDER OR CRIMP WITH M22520/5-13 DIE (B HEX). ENSURE THE CONTACT IS BUTTED AGAINST THE CABLE DIELECTRIC. CLEAN ALL FLUX RESIDUES USING AN APPROPRIATE FLUX CLEANER.



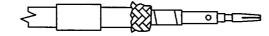
 USING TWEEZERS, FOLD THE OUTER BRAID BACK OVER THE CABLE JACKET, LEAVING AS MUCH WEAVE AS POSSIBLE.



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.

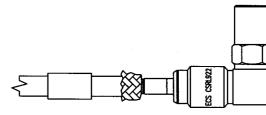


USING TWEEZERS, FOLD THE INNER BRAID BACK OVER
THE OTHER SHIELDS, LEAVING AS MUCH WEAVE AS POSSIBLE.
NOTE: DO NOT UNRAVEL DIELECTRIC WHEN PULLING
BACK INNER SHIELD.

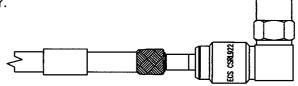


			REVISIONS		
ECN	ZONE	REV.	DESCRIPTION	DATE	APROVED
20488	_	1	PROTOTYPE	8/4/04	PETER LEE
20566	_	2	PREPRODUCTION RELEASE	8/11/04	D. KNOLL
20783	_	N/C	CHANGED CONTACT & STRIPP DIM'S	9/13/04	De 19/Kml

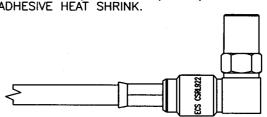
8. SLIDE THE BODY OF THE CONNECTOR OVER THE END OF THE CABLE UNTIL THE RIDGE ON THE CONTACT SEATS WITH THE DIELECTRIC RIDGE INSIDE THE CONNECTOR BODY.



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. ENSURE HEAT SHRINK IS INSTALLED PRIOR TO CRIMPING CONNECTOR.



CONNECTOR DIMENSIONS ARE FOR REFERENCE ONLY.

3. 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.

ALL LENGTHS I	ELECTRONIC CABLE SPECIALISTS FRANKLIN, WI 53132 E C S PHONE: (414) 421-5300						
APPROVALS	DATE						
DRAWN BY C CHAPMAN CHECKED BY PETER LEE	08/02/04 08/04/04	SMA 90° EXTENDED PLUG FOR ECS CABLE 311601, 311501 & 421601					
DESIGNED BY:		SIZE	CAGE	CODE		LEVEL	PART NO.
PROJECT ENG: C CHAPMAN	08/04/04	B	66	51	97		CSRL922
ENG. MGR:				RAGE\	E\SPEC\C	ONN/INS	T\CSRL922 SHEET 1 OF 1

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