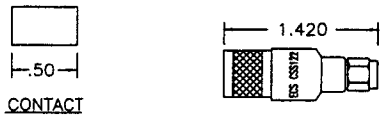
DWG NO.	SH	REV.
CSS122-1	1	N/C

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FERRULE

BODY



DIMENSIONS (4)

SPECIFICATIONS

ELECTRICAL

IMPEDANCE: 50 OHMS NOMINAL
FREQUENCY RANGE: 0–18 GHz
VSWR: 1.05 + .05(FGHz) dB MAX
INSERTION LOSS: .03 $\sqrt{FGHz}$ dB MAX
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 310-1 (SMA)
TERMINATION STYLE: INNER CONTACT–SOLDER OR CRIMP
OUTER CONTACT–FERRULE CRIMP
CABLE RETENTION: 50 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: STAINLESS STEEL PER SAE-AMS-QQ-S-763
FERRULE: ANNEALED, BRASS PER ASTM B16 OR COPPER PER ASTM B124
CENTER CONTACT: BERYLLIUM COPPER PER ASTM B196
DIELECTRIC: TEFLON PER ASTM D1710
GASKET: SILICON RUBBER PER ZZ-R-765

FINISHES

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

INSTALLATION INSTRUCTIONS

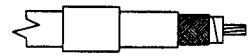
1. BEGIN BY CUTTING THE CABLE OFF SQUARE.



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. (2)



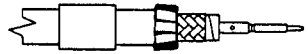
4. SOLDER THE CONTACT ONTO THE CENTER CONDUCTOR, PER MIL-STD-2000, USING 63Sn/37Pb SOLDER OR CRIMP WITH M22520/5-57 DIE (B HEX). ENSURE THE CONTACT IS BUTTED AGAINST CABLE DIELECTRIC. CLEAN ALL FLUX RESIDUES USING AN APPROPRIATE FLUX CLEANER.



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.



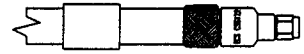
7. USING TWEEZERS, FOLD THE INNER BRAID BACK OVER THE OTHER SHIELDS, LEAVING AS MUCH WEAVE AS POSSIBLE. NOTE: DO NOT UNRAVEL DIELECTRIC WHEN PULLING BACK INNER SHIELD.



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 M22520/5-47 (A HEX) IN A M22520/5-01 TOOL FRAME. APPLY ADHESIVE HEAT SHRINK. (3)



NOTES

1. 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 WI007. CONTACT ECS FOR A COPY OF THIS WORK INSTRUCTION.
4. CONNECTOR DIMENSIONS ARE FOR REFERENCE ONLY.
5. PICTORIALS SHOW CONNECTOR INSTALLATION ON ECS 311201 CABLE. WHEN INSTALLING THIS CONNECTOR ON 421201 THERE ARE ONLY 2 SHIELDS WHICH SHOULD BE FOLDED BACK AS SHOWN IN STEP 6 AND STEP 7 WOULD BE OMITTED.

REVISIONS					
ECN	ZONE	REV.	DESCRIPTION	DATE	APPROVED
12898		N/C	NEW RELEASE.	9/14/01	C Chapman

ALL LENGTHS IN INCHES

APPROVALS	DATE
DRAWN BY: E. FOSSELL	07/26/01
CHECKED BY: C Chapman	9/14/01
DESIGNED BY:	
PROJECT ENG:	
ENG. MGR:	9/14/01

ELECTRONIC CABLE SPECIALISTS
FRANKLIN, WI 53132
PHONE: (414) 421-5300

TITLE: CUSTOMER SPECIFICATION
SMA STRAIGHT PLUG FOR ECS CABLE 311201 AND 421201

SIZE	CAGE CODE	LEVEL	PART NO.
B	66197	C	CSS122

SCALE: | FILE NO F:\E\SPEC\CONN\INST\CSS122 | SHEET 1 OF 1