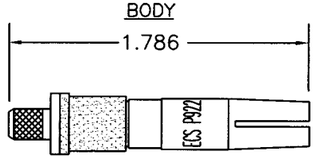
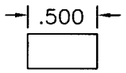
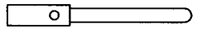
BODY



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

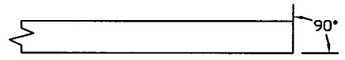
BODY: BERYLLIUM COPPER PER ASTM B196
FERRULE: ANNEALED, BRASS PER ASTM B16 OR COPPER PER ASTM B124
CENTER CONTACT: BERYLLIUM COPPER PER ASTM B196
INNER BODY DIELECTRIC: TEFLON PER ASTM D1710
SLEEVE: NYLON

FINISHES

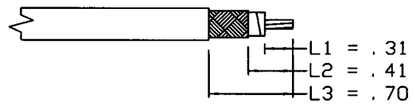
FERRULE: BRIGHT NICKEL PER QQ–N–290
BODY AND CENTER CONTACT: GOLD PER MIL–G–45204

INSTALLATION INSTRUCTIONS

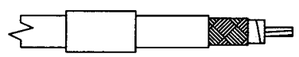
1. BEGIN BY CUTTING THE CABLE OFF SQUARE.



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.

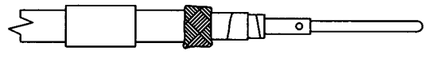


3. SLIDE THE FERRULE AND ADHESIVE SHRINK TUBING OVER THE END OF THE CABLE.



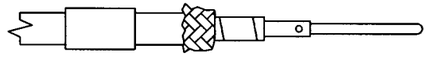
4. SOLDER THE CONTACT ONTO THE CENTER CONDUCTOR, PER MIL–STD–2000, USING 63Sn/37Pb SOLDER. ENSURE THE CONTACT IS BUTTED AGAINST THE CABLE DIELECTRIC. CLEAN ALL FLUX RESIDUES USING AN APPROPRIATE FLUX CLEANER.

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

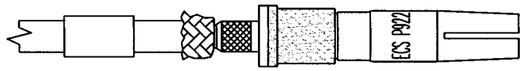


6. SLICE THE ALUMINUM/POLYESTER FOIL LENGTHWISE ABOUT EVERY 1/8". GENTLY ROTATE PIN TO SEPARATE THE FLAT FOIL BRAID AND ALUMINUM/POLYESTER FOIL FROM THE DIELECTRIC. USING TWEEZERS, FOLD BACK ALUMINUM/POLYESTER FOIL OVER THE OUTER BRAID.

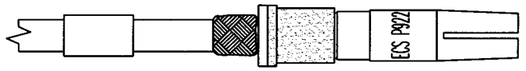
7. USING TWEEZERS, FOLD THE INNER BRAID BACK OVER THE OTHER SHIELDS, LEAVING AS MUCH WEAVE AS POSSIBLE. NOTE: DO NOT UNRAVEL DIELECTRIC WHEN PULLING BACK INNER SHIELD.



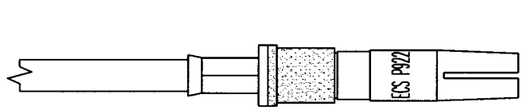
8. SLIDE THE BODY OF THE CONNECTOR OVER THE END OF THE CABLE UNTIL THE CONTACT SEATS WITH THE DIELECTRIC RIDGE INSIDE THE CONNECTOR BODY.



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.



NOTES

1. 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.

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	

ALL LENGTHS IN INCHES	
APPROVALS	DATE
DRAWN BY: C CHAPMAN	05/07/02
CHECKED BY: DAVID E KNOLL	6/30/02
DESIGNED BY:	
PROJECT ENG:	
ENG. MGR: DAVID E KNOLL	6/30/02

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

TITLE: CUSTOMER SPECIFICATION
SIZE 5, ARINC 600 RF CONNECTOR
FOR ECS CABLE 311501, 311601 AND 421601

SIZE	CAGE CODE	LEVEL	PART NO.
B	66197		P922

SCALE: | FILE NO | SHEET: 1 OF 1