

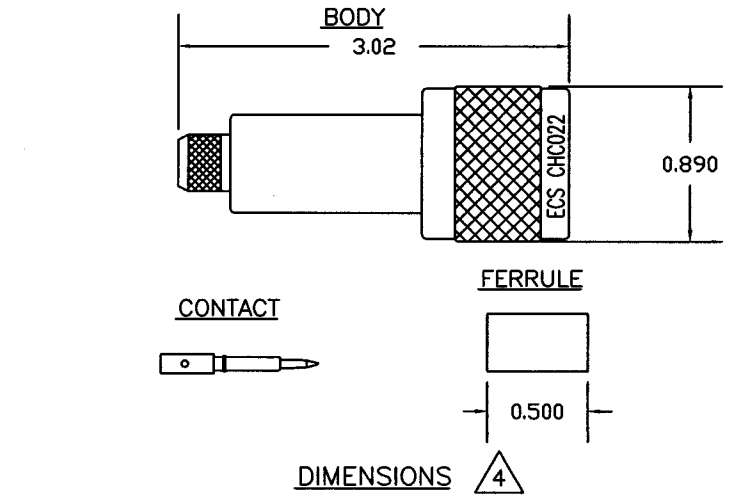
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DWG NO. CHC022-1 SH 1 REV. N/C

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**SPECIFICATIONS**

**ELECTRICAL**

IMPEDANCE: 50 OHMS NOMINAL  
FREQUENCY RANGE: 0-4 GHz  
VSWR: 1.35:1 MAXIMUM  
INSERTION LOSS: .1 dB MAXIMUM DC TO 2 GHz  
WORKING VOLTAGE: 2500 VRMS @ -55°C AND 55,000 FT  
DIELECTRIC WITHSTANDING: 5000 VRMS @ SEA LEVEL  
INSULATION RESISTANCE: 5000 MEGOHMS MINIMUM

**MECHANICAL**

CONNECTOR INTERFACE DIMENSION PER MIL-STD-348A FIGURE 317-1 WITH EXCEPTION OF INTERFACE DIELECTRIC INTERFACE IS COMPATIBLE WITH HN JACK.  
TERMINATION STYLE: CONTACT-SOLDER OR CRIMP  
FERRULE-CRIMP

CABLE RETENTION: 50 LBS

**ENVIRONMENTAL**

TEMPERATURE RATING: -65° TO +165° C  
CORROSION: MIL-STD-202, METHOD 101, COND. B  
MOISTURE RESISTANCE: MIL-STD-202, METHOD 106

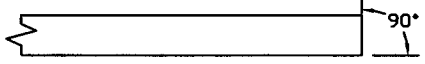
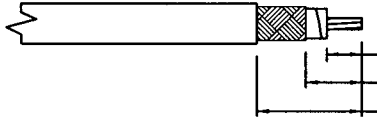





**MATERIALS**

BODY: BRASS PER ASTM B16  
FERRULE: ANNEALED, BRASS PER ASTM B16 OR COPPER PER ASTM B124  
CABLE CONTACT: BERYLLIUM COPPER PER ASTM B196  
OUTER CONTACT: BRASS PER ASTM B16  
DIELECTRIC: TEFLON PER ASTM D1710  
GASKET: SILICONE RUBBER PER ZZ-R-765

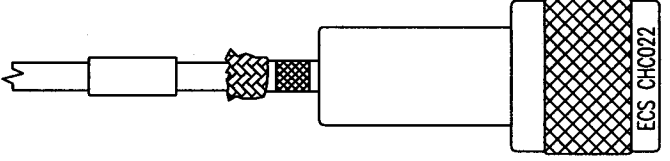
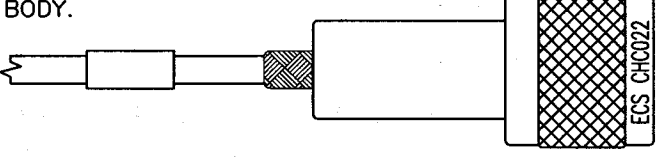
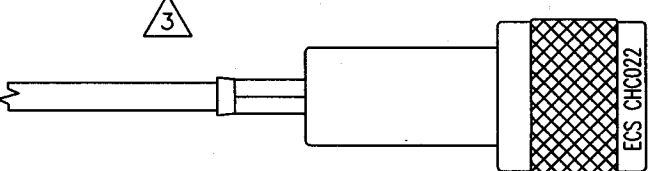
**FINISHES**

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

**INSTALLATION INSTRUCTIONS**

- 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.   
L1 = .250  
L2 = 1.85  
L3 = 2.15
- 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 OR CRIMP WITH Y1757 DIE. 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 OUTER SHIELD. 

REVISIONS					
ECN	ZONE	REV.	DESCRIPTION	DATE	APPROVED
19291	-	N/C	NEW RELEASE.	2/16/04	<i>[Signature]</i>

- 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. 
- 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 M22520/5-21 DIE (A HEX) IN A M22520/5-01 TOOL FRAME. 

**NOTES**

- ALL DIMENSIONS ARE IN INCHES.
- ENSURE HEAT SHRINK IS INSTALLED PRIOR TO CRIMPING CONNECTOR.
- ADHESIVE HEAT SHRINK SHOULD BE APPLIED IN ACCORDANCE WITH ECS WORK INSTRUCTION W1007. CONTACT ECS FOR A COPY OF THIS WORK INSTRUCTION.
- CONNECTOR DIMENSIONS ARE FOR REFERENCE ONLY.

ALL LENGTHS IN INCHES		ECS ELECTRONIC CABLE SPECIALISTS FRANKLIN, WI 53132 PHONE: (414) 421-5300	
APPROVALS	DATE	TITLE: <b>CUSTOMER SPECIFICATION</b>	
DRAWN BY: C CHAPMAN	02/11/04	HN STRAIGHT PLUG WITH EXTENDED PIN CONTACT FOR ECS CABLE 310801	
CHECKED BY: <i>[Signature]</i>	2/16/04	SIZE: B	CAGE CODE: 66197
DESIGNED BY:		LEVEL:	ECS PART NO. CHC022
PROJECT ENG:		SCALE:	EFFECTIVITY:
ENG MGR: <i>[Signature]</i>	2/16/04	SHEET: 1 OF 1	

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