

PART NUMBER	ITEM ① BODY	ITEM ② STEM	ITEM ③ FRONT CONTACT	ITEM ④ INSULATOR	ITEM ⑤ O-RING	ITEM ⑥ LOCKWASHER	ITEM ⑦ MOUNTING NUT	ITEM ⑧ REAR CONTACT	ITEM ⑨ CRIMP SLEEVE
138-4303-406	BRASS NICKEL PL .0001 MIN OVER COPPER PL .00005 MIN	BRASS NICKEL PL .0001 MIN OVER COPPER PL .00005 MIN	BERYLLIUM COPPER GOLD PL .00005 MIN OVER NICKEL PL .00005 MIN OVER COPPER PL .00005 MIN	TEFLON	SILICONE RUBBER	STEEL TRI-ALLOY .0001 MIN	BRASS NICKEL PL .0001 MIN OVER COPPER PL .00005 MIN	BRASS GOLD PL .00005 MIN OVER NICKEL PL .00005 MIN OVER COPPER PL .00005 MIN	COPPER NICKEL PL .0001 MIN OVER COPPER PL .00005 MIN
138-4303-407	BRASS TRI-ALLOY PL .0001 MIN	BRASS TRI-ALLOY PL .0001 MIN	BERYLLIUM COPPER GOLD PL .00005 MIN OVER NICKEL PL .00005 MIN OVER COPPER PL .00005 MIN	TEFLON	SILICONE RUBBER	STEEL TRI-ALLOY .0001 MIN	BRASS NICKEL PL .0001 MIN OVER COPPER PL .00005 MIN	BRASS GOLD PL .00005 MIN OVER NICKEL PL .00005 MIN OVER COPPER PL .00005 MIN	COPPER TRI-ALLOY PL .0001 MIN

DRAWING NO.	
C - 138-4303-401/410	
0	REVISIONS
ENGINEERING RELEASE	
1	2-14-06P A TJ RK D WJ M U4-17-06 ECN 50288
LOCKWASHER TRI-ALLOY WAS ZINC .045-.400 WAS .045-.125 ***** * REVISION NUMBER FOLLOWED BY AN ALPHA * * CHARACTER INDICATES DRAWING CLARIFI- * CATION OR PART NUMBER ADDITION ONLY. * *****	
1a	2-8-07P A TJ RK D WJ M U2-15-07 ECN 50932

2:1

.743 .968
.045-.400
PANEL THICKNESS .023
5/8-UNEF-2A
HEX .750 X .093 THK
Ø.900

NOTES:

1. SPECIFICATIONS:

IMPEDANCE: 50 OHMS
FREQUENCY RANGE: 0-11 GHz
VSWR: 1.30 MAX AT 0-11 GHz
WORKING VOLTAGE: 250 VRMS MAX AT SEA LEVEL
DIELECTRIC WITHSTANDING VOLTAGE: 750 VRMS MIN AT SEA LEVEL
INSULATION RESISTANCE: 5000 MEGOHM MIN
CONTACT RESISTANCE:
 CENTER CONTACT - INITIAL 1.0 MILLIOHM MAX, AFTER ENVIRONMENTAL 1.5 MILLIOHM MAX
 OUTER CONDUCTOR - INITIAL 0.2 MILLIOHM MAX, AFTER ENVIRONMENTAL NOT APPLICABLE
 BODY TO CABLE - INITIAL .05 MILLIOHM MAX, AFTER ENVIRONMENTAL NOT APPLICABLE
CORONA LEVEL: 190 VOLTS MIN AT 70,000 FEET
INSERTION LOSS: .15 dB MAX, TESTED AT 9 GHz
RF LEAKAGE: -90 dB MIN AT 2 TO 3 GHz
RF HIGH POTENTIAL WITHSTANDING VOLTAGE: 500 VRMS AT 4 AND 7 MHz
THIRD ORDER INTERMODULATION PRODUCT (IMP3): TYPICALLY < -90 dBm
 (TESTED PER IEC GUIDELINES WITH 20W CW INPUTS AT 1930-1990 MHz)

MECHANICAL:

ENGAGE/DISENGAGE TORQUE: 6 IN-LBS MAX
MATING TORQUE: 7-10 IN-LBS
COUPLING PROOF TORQUE: NOT APPLICABLE
COUPLING NUT RETENTION: NOT APPLICABLE
CONTACT RETENTION: 6 LBS MIN AXIAL FORCE
CABLE ACCEPTABILITY: RG 188, RG 316, RG 161, RG 174
CABLE HEX CRIMP SIZE: .128
CABLE RETENTION: 20 LBS MIN AXIAL FORCE
DURABILITY: 500 CYCLES MIN

ENVIRONMENTAL:

(MEETS OR EXCEEDS THE APPLICABLE PARAGRAPH OF MIL-PRF-39012)
THERMAL SHOCK: MIL-STD-202, METHOD 107, CONDITION B, EXCEPT 85°C HIGH TEMP
OPERATING TEMPERATURE: -65°C TO 165°C
CORROSION: MIL-STD-202, METHOD 101, CONDITION B
SHOCK: MIL-STD-202, METHOD 213, CONDITION I
VIBRATION: MIL-STD-202, METHOD 204, CONDITION B
MOISTURE RESISTANCE: MIL-STD-202, METHOD 106

.537 ± .003
Ø.638 ± .003
MOUNTING HOLE

.365 ± .010
.300 ± .010
.120 ± .010
CABLE STRIP DIMENSIONS
NOT TO SCALE

CUSTOMER DRAWING

THIS DRAWING TO BE INTERPRETED
PER ASME Y 14.5M - 1994

"μSTATION"

COMPANY CONFIDENTIAL

TOLERANCE UNLESS OTHERWISE SPECIFIED		DRAWN BY PAT	DATE 2-13-06	 Connectivity Solutions P.O. Box 1732 Waseca, MN 56093 1-800-247-8256	
DECIMALS .XX	mm	CHECKED BY PDW	DATE 4-13-06	TITLE ASSEMBLY, TYPE N BULKHEAD JACK RG 316	
.XXX REF		APPROVED BY JRK	DATE 4-13-06		
MATL		RELEASE DATE 4-17-06		SHEET 2 OF 2	DRAWING NO. C - 138-4303-401/410
FINISH		U/M INCH	SCALE 5:1		