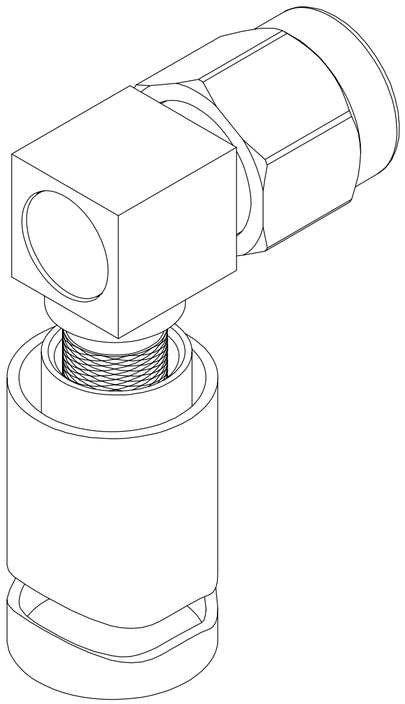
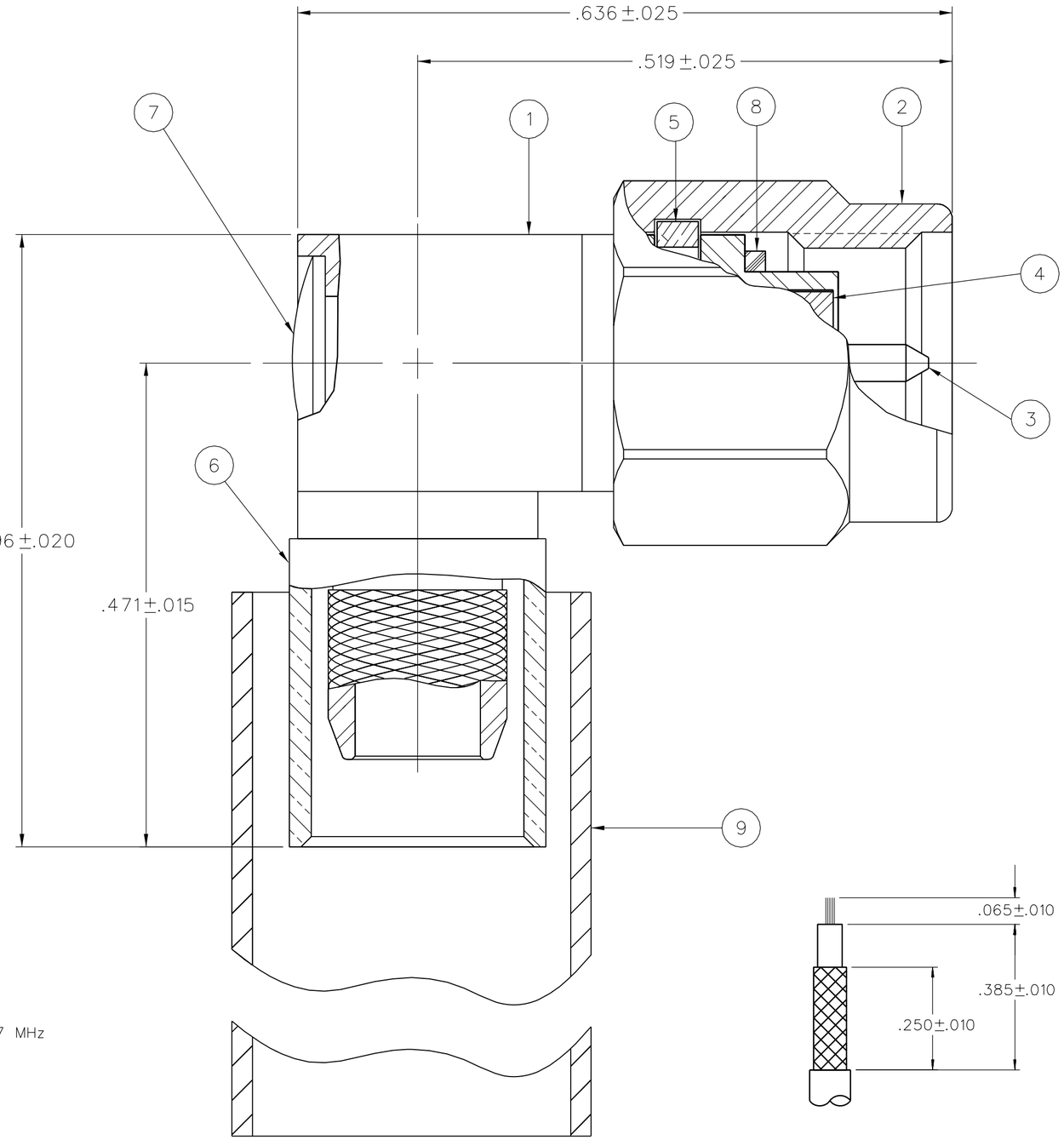
PART NUMBER	ITEM ① BODY	ITEM ② NUT	ITEM ③ CONTACT	ITEM ④ INSULATOR	ITEM ⑤ RETENTION SPRING	ITEM ⑥ CRIMP SLEEVE	ITEM ⑦ END CAP	ITEM ⑧ GASKET	ITEM ⑨ HEAT SHRINK
141-0407-102	STAINLESS STEEL PASSIVATED	STAINLESS STEEL PASSIVATED	BRASS GOLD PL .00005 MIN OVER NICKEL PL .00005 MIN OVER COPPER PL .00005 MIN	TEFLON	BERYLLIUM COPPER UNPLATED	COPPER NICKEL PL .0001 MIN OVER COPPER PL .00005 MIN	BRASS NICKEL PL .0001 MIN OVER COPPER PL .00005 MIN	SILICONE	POLYOLEFIN COLOR: BLACK



5:1



CABLE STRIP DIMENSIONS

4:1

NOTES:

1. SPECIFICATIONS:

IMPEDANCE: 50 OHMS
FREQUENCY RANGE: 0-12.4 GHz
VSWR: 1.15+.02F MAX (F IN GHz)
WORKING VOLTAGE: 335 VRMS MAX AT SEA LEVEL
DIELECTRIC WITHSTANDING VOLTAGE: 1000 VRMS MIN AT SEA LEVEL
INSULATION RESISTANCE: 5000 MEGOHM MIN
CONTACT RESISTANCE:
CENTER CONTACT - INITIAL 4.0 MILLIOHM MAX, AFTER ENVIRONMENTAL 6.0 MILLIOHM MAX
OUTER CONDUCTOR - INITIAL 2.0 MILLIOHM MAX AFTER ENVIRONMENTAL NOT APPLICABLE
BODY TO CABLE - 0.5 MILLIOHM MAX (GOLD PLATED) 5.0 MILLIOHM MAX (PASSIVATED)
CORONA LEVEL: 250 VOLTS MIN AT 70,000 FEET
INSERTION LOSS: .15$\sqrt{F}$ (F IN GHz) AT 6 GHz
RF LEAKAGE: -60 DB MIN AT 2.5 GHz
RF HIGH POTENTIAL WITHSTANDING VOLTAGE: 670 VRMS MIN AT 4 AND 7 MHz

MECHANICAL:

ENGAGE/DISENGAGE TORQUE: 2 INCH-POUNDS MAX
MATING TORQUE: 7-10 INCH POUNDS
COUPLING PROOF TORQUE: 15 INCH-POUNDS MIN
COUPLING NUT RETENTION: 60 LBS MIN
CONTACT RETENTION: 6 LBS MIN
CABLE ACCEPTABILITY: RG 58/U, RG 141/U RG 303/U
CABLE HEX CRIMP SIZE: .213
CABLE RETENTION: 40 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 DEG C TO 165 DEG C
CORROSION: MIL-STD-202, METHOD 101, CONDITION B
SHOCK: MIL-STD-202, METHOD 213, CONDITION I
VIBRATION: MIL-STD-202, METHOD 204, CONDITION D
MOISTURE RESISTANCE: MIL-STD-202, METHOD 106

DRAWING NO. C-141-0407-101/110

0	REVISIONS		
ENGINEERING RELEASE			
01	05-03-90 EJ RJB AAW		5-11-90 ECO 24553
UPDATE TO THICKWALL BODY, INSULATOR AND CONTACT.			
02	03-09-91 DWB VET TAK RJB AAW		3-20-91 ECO 40034
CHANGED: RF LEAK 2.5 GHz WAS 2 TO 3 GHz, RF HIGH POT 4 AND 7 MHz WAS 5 TO 7.5 MHz			
3	12-2-93 RH TAK RJB		ECO 42106
.636 WAS .664, .596 WAS .597 .471 WAS .456, REMOVE 141-0408-101			
4	5-9-06 PAT SBD RJB PDW		6-22-06 ECN 50444
.250 WAS .281, .385 WAS .390, .065 WAS .070			
********** * REVISION NUMBER FOLLOWED BY AN ALPHA * * CHARACTER INDICATES DRAWING CLARIFI- * * CATION OR PART NUMBER ADDITION ONLY. * **********			
4a	9-21-06 PAT SBD TAK		12-4-06 ECN 50735
UPDATED VIEWS			
5	11-5-08 PAT RJB RT MJU JCN		11-10-08 ECN 51709

CUSTOMER DRAWING

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

"μSTATION"

COMPANY CONFIDENTIAL

TOLERANCE UNLESS OTHERWISE SPECIFIED		DRAWN BY	DATE
DECIMALS	mm	EJ	10-24-89
.XX ———	———	CHECKED BY	DATE
.XXX ±.003	———		
MATL ———		APPROVED BY RJB	DATE 5-4-90
FINISH ———		RELEASE DATE	5-11-90
		U/M INCH	SCALE 10:1

EMERSON Network Power
Connectivity Solutions
P.O. Box 1732
Waseca, MN 56093
1-800-247-8256

TITLE: PLUG ASSEMBLY, RA SMA, RG-58

SHEET 2 OF 2

DRAWING NO. C-141-0407-101/110