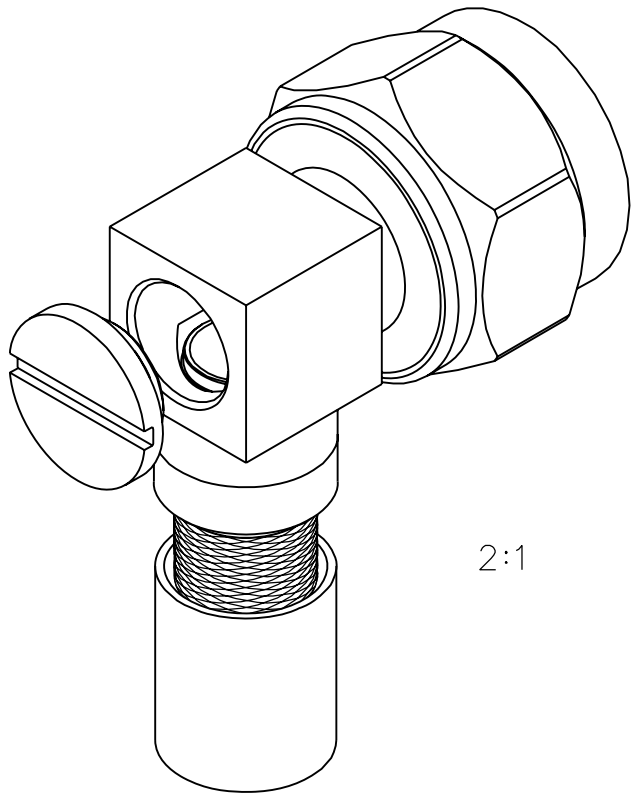
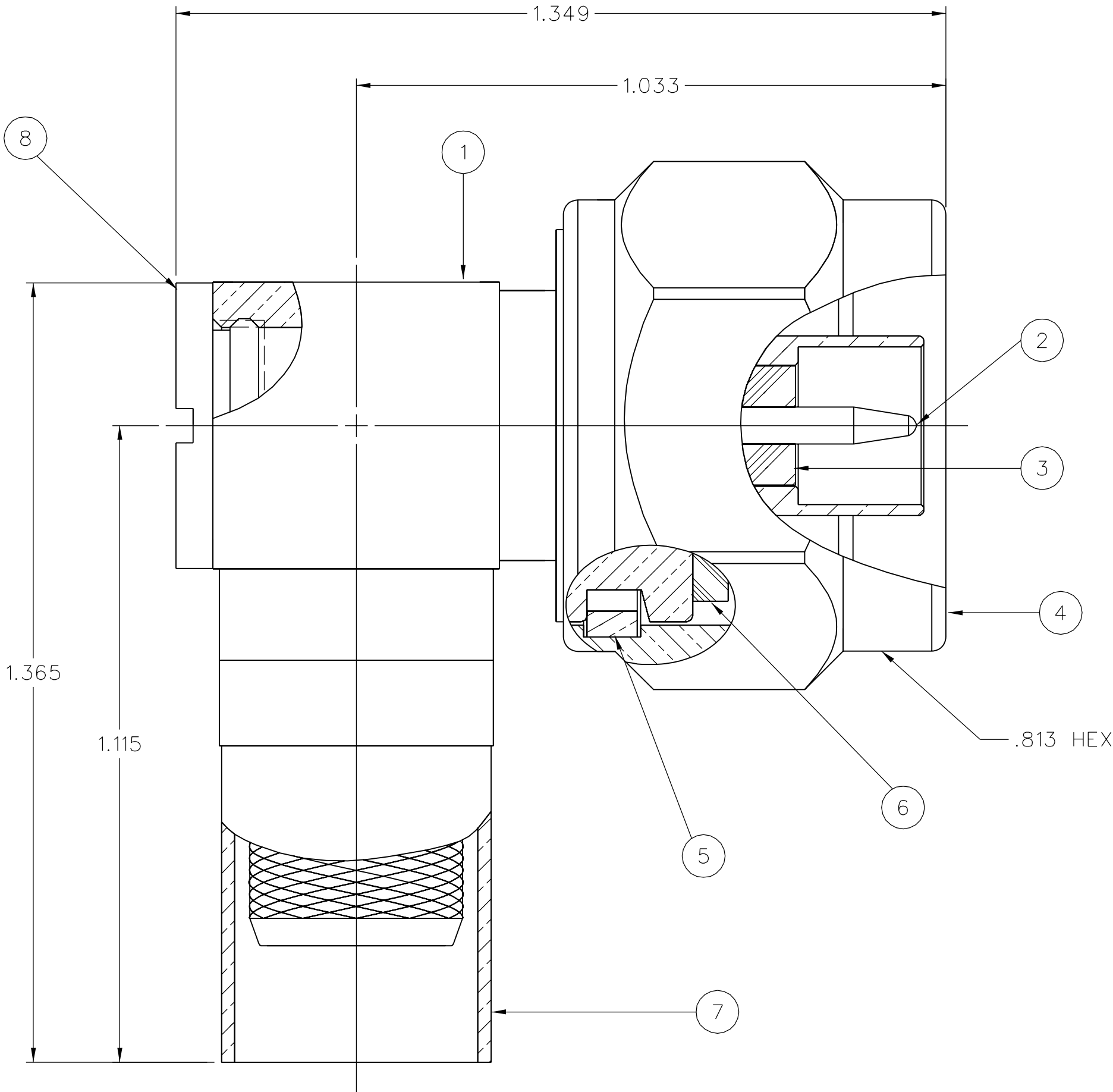


| PART NUMBER | ITEM ① BODY | ITEM ② CONTACT | ITEM ③ INSULATOR | ITEM ④ COUPLING NUT | ITEM ⑤ RETENTION SPRING | ITEM ⑥ SEAL GASKET | ITEM ⑦ CRIMP SLEEVE | ITEM ⑧ END CAP |
|--------------|---|---|---------------------|---|------------------------------|-----------------------|--|---|
| 138-4416-106 | 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 | TEFLON | BRASS NICKEL PL .0001 MIN OVER COPPER PL .00005 MIN | BERYLLIUM COPPER UNPLATED | SILICONE RUBBER | COPPER NICKEL PL .0001 MIN OVER COPPER PL .00005 MIN | BRASS NICKEL PL .0001 MIN OVER COPPER PL .00005 MIN |
| 138-4416-107 | BRASS TRI-ALLOY PL .0001 MIN | BRASS GOLD PL .00005 MIN OVER NICKEL PL .00005 MIN OVER COPPER PL .00005 MIN | TEFLON | BRASS TRI-ALLOY PL .0001 MIN | BERYLLIUM COPPER UNPLATED | SILICONE RUBBER | COPPER TRI-ALLOY PL .0001 MIN | BRASS TRI-ALLOY PL .0001 MIN |



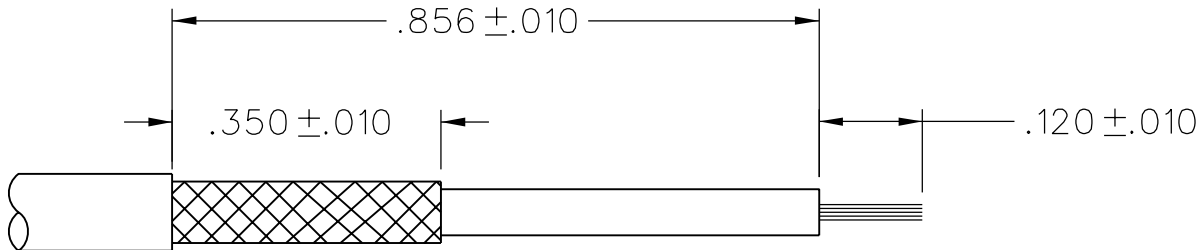
2:1




- NOTES:
1. SPECIFICATIONS:
- IMPEDANCE: 50 OHMS
FREQUENCY RANGE: 0-11 GHz
VSWR: 1.35 MAX AT 0-9 GHz, 1.50 MAX AT 9-11 GHz
WORKING VOLTAGE: 1000 VRMS MAX AT SEA LEVEL
DIELECTRIC WITHSTANDING VOLTAGE: 2500 VRMS MIN AT SEA LEVEL
INSULATION RESISTANCE: 5000 MEGOHM MIN
CONTACT RESISTANCE:
 CENTER CONTACT - INITIAL 2.5 MILLIOHM MAX, AFTER ENVIRONMENTAL 3.0 MILLIOHM MAX
 OUTER CONDUCTOR - INITIAL 0.2 MILLIOHM MAX, AFTER ENVIRONMENTAL NOT APPLICABLE
 BODY TO CABLE - 0.05 MILLIOHM MAX, AFTER ENVIRONMENTAL NOT APPLICABLE
CORONA LEVEL: 500 VOLTS MIN AT 70,000 FEET
INSERTION LOSS: 0.30 dB MAX, TESTED AT 9 GHz
RF LEAKAGE: -90 dB MIN AT 2 TO 3 GHz
RF HIGH POTENTIAL WITHSTANDING VOLTAGE: 1500 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: 15 IN-LBS MIN
COUPLING NUT RETENTION: 100 LBS MIN
CONTACT RETENTION: 6 LBS MIN AXIAL FORCE
CABLE ACCEPTABILITY: RG 8, RG 213
CABLE HEX CRIMP SIZE: .429
CONTACT HEX CRIMP SIZE: N/A
CABLE RETENTION: 90 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



CABLE STRIP DIMENSIONS
NOT TO SCALE

| | | | | | | | |
|--------------------------------------|--|-----------------|--|-------------------------|--|--|--|
| TOLERANCE UNLESS OTHERWISE SPECIFIED | | DRAWN BY PAT | | DATE 1-4-06 | |  Connectivity Solutions P.O. Box 1732 Waseca, MN 56093 1-800-247-8256 | |
| DECIMALS .XX | | mm | | CHECKED BY PDW | | DATE 4-11-06 | |
| .XXX REF | | | | APPROVED BY JRK | | DATE 4-11-06 | |
| MATL | | | | RELEASE DATE 4-12-06 | | TITLE RIGHT ANGLE CRIMP PLUG TYPE N CONNECTOR RG-213 | |
| FINISH | | | | U/M INCH | | SHEET 2 OF 2 | |
| | | | | SCALE 5:1 | | DRAWING NO. C - 138-4416-101/110 | |

| | |
|--|--|
| DRAWING NO. C - 138-4416-101/110 | |
| 0 | REVISIONS |
| ENGINEERING RELEASE | |
| 1 | 12-19-05 P A T J R K P D W M J U 4-12-06 ECN 50127 |
| .856±.010 WAS .842±.010, .120±.010 WAS .135±.010, VERSION UPDATE | |
| 2 | 6-1-06 P A T J R K P D W M J U 7-7-06 ECN 50479 |

CUSTOMER DRAWING

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

"μ STATION"

COMPANY CONFIDENTIAL