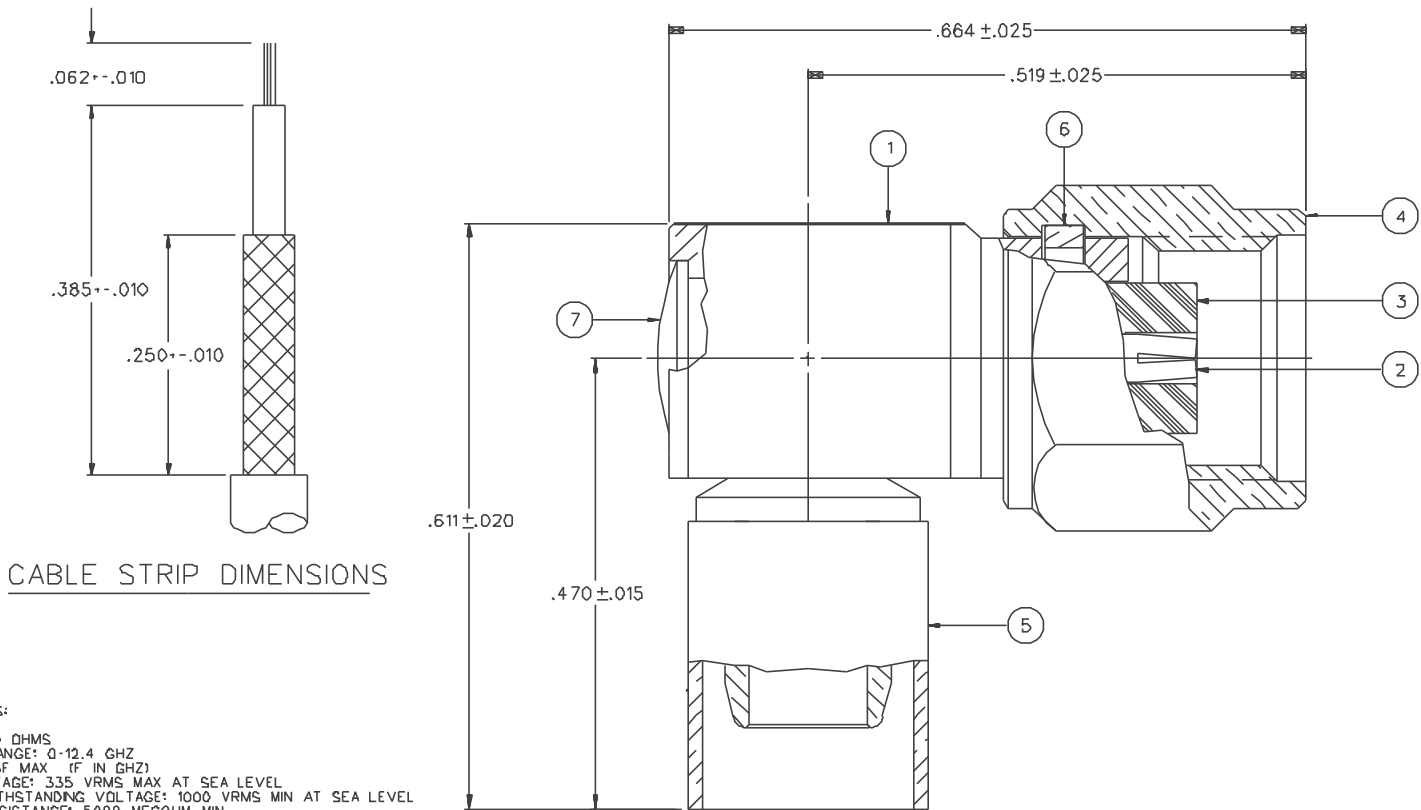


| PART NUMBER  | ITEM ①<br>BODY                                                                        | ITEM ②<br>CONTACT                                                                                | ITEM ③<br>INSULATOR | ITEM ④<br>HEX NUT                                                                     | ITEM ⑤<br>CRIMP SLEEVE                                                                 | ITEM ⑥<br>RETENTION SPRING   | ITEM ⑦<br>END CAP                                                                     |
|--------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|---------------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------------------------------------|
| 142-4407-101 | BRASS<br>GOLD PL .00001 MIN OVER<br>NICKEL PL .00005 MIN OVER<br>COPPER PL .00005 MIN | BERYLLIUM COPPER<br>GOLD PL .00005 MIN OVER<br>NICKEL PL .00005 MIN OVER<br>COPPER PL .00005 MIN | TEFLON              | BRASS<br>GOLD PL .00001 MIN OVER<br>NICKEL PL .00005 MIN OVER<br>COPPER PL .00005 MIN | COPPER<br>GOLD PL .00001 MIN OVER<br>NICKEL PL .00005 MIN OVER<br>COPPER PL .00005 MIN | BERYLLIUM COPPER<br>UNPLATED | BRASS<br>GOLD PL .00001 MIN OVER<br>NICKEL PL .00005 MIN OVER<br>COPPER PL .00005 MIN |
| 142-4407-106 | BRASS<br>NICKEL PL .0001 MIN OVER<br>COPPER PL .00005 MIN                             | BERYLLIUM COPPER<br>GOLD PL .00005 MIN OVER<br>NICKEL PL .00005 MIN OVER<br>COPPER PL .00005 MIN | TEFLON              | BRASS<br>NICKEL PL .0001 MIN OVER<br>COPPER PL .00005 MIN                             | COPPER<br>NICKEL PL .0001 MIN OVER<br>COPPER PL .00005 MIN                             | BERYLLIUM COPPER<br>UNPLATED | BRASS<br>NICKEL PL .0001 MIN OVER<br>COPPER PL .00005 MIN                             |



CABLE STRIP DIMENSIONS

NOTES:

1. SPECIFICATIONS:

IMPEDANCE: 50 OHMS  
 FREQUENCY RANGE: 0-12.4 GHZ  
 VSWR: 1.15+.03F 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 (NICKEL PLATED)  
 CORONA LEVEL: 250 VOLTS MIN AT 70,000 FEET  
 INSERTION LOSS: .15 dB (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, RG 141, RG 303  
 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-C-39012)  
 THERMAL SHOCK: MIL-STD-202, METHOD 107, CONDITION B, EXCEPT .85 DEG 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 1  
 VIBRATION: MIL-STD-202, METHOD 204, CONDITION D  
 MOISTURE RESISTANCE: MIL-STD-202, METHOD 106

|                     |                                |
|---------------------|--------------------------------|
| DRAWING NO.         | C - 142-4407-101/110           |
| 0                   | REVISIONS                      |
| ENGINEERING RELEASE |                                |
| 1                   | 10-27-98 R H S T T R ECN 4597B |

CUSTOMER DRAWING

THIS DRAWING TO BE INTERPRETED  
 PER ANSI Y 14.5M - 1982

"μSTATION"

COMPANY CONFIDENTIAL

|                                      |                    |                 |                                                                    |
|--------------------------------------|--------------------|-----------------|--------------------------------------------------------------------|
| TOLERANCE UNLESS OTHERWISE SPECIFIED | DRAWN BY<br>SWC    | DATE<br>7-20-98 | 299 Johnson Ave.<br>P.O. Box 1732<br>Waseca, MN 56093-0832         |
| DECIMALS<br>.XX                      | CHECKED BY<br>SWC  | DATE<br>11-6-98 | TITLE<br>PLUG ASSEMBLY<br>RA CABLED REVERSE<br>POLARITY SMA, RG 58 |
| .XXX REF                             | APPROVED BY<br>TAK | DATE<br>11-6-98 | CODE NO.                                                           |
| MATL                                 | APPROVED BY<br>RJB | DATE<br>11-9-98 | DRAWING NO.<br>C - 142-4407-101/110                                |
| FINISH                               | RELEASE DATE       | SCALE 10:1      | SHEET 2 OF 2                                                       |