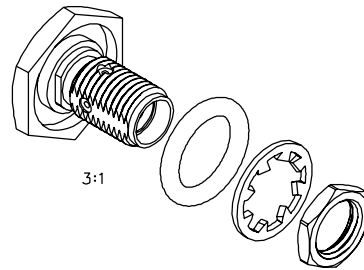
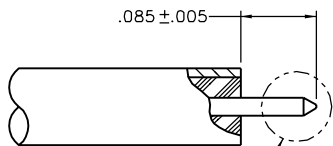


| PART NUMBER  | ITEM ①<br>BODY                                                                       | ITEM ②<br>CONTACT                                                                                | ITEM ③<br>INSULATOR | ITEM ④<br>SEAL RING | ITEM ⑤<br>LOCK WASHER                                      | ITEM ⑥<br>NUT                                                                         |
|--------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|---------------------|---------------------|------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 142-0593-421 | BRASS<br>GOLD PL .00001 MIN OVER<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              | SILICONE<br>RUBBER  | BRONZE<br>GOLD PL .00001 MIN OVER<br>NICKEL PL .00005 MIN  | BRASS<br>GOLD PL .00001 MIN OVER<br>NICKEL PL .00005 MIN OVER<br>COPPER PL .00005 MIN |
| 142-0593-426 | 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              | SILICONE<br>RUBBER  | BRONZE<br>NICKEL PL .0001 MIN OVER<br>COPPER PL .00005 MIN | BRASS<br>NICKEL PL .0001 MIN OVER<br>COPPER PL .00005 MIN                             |

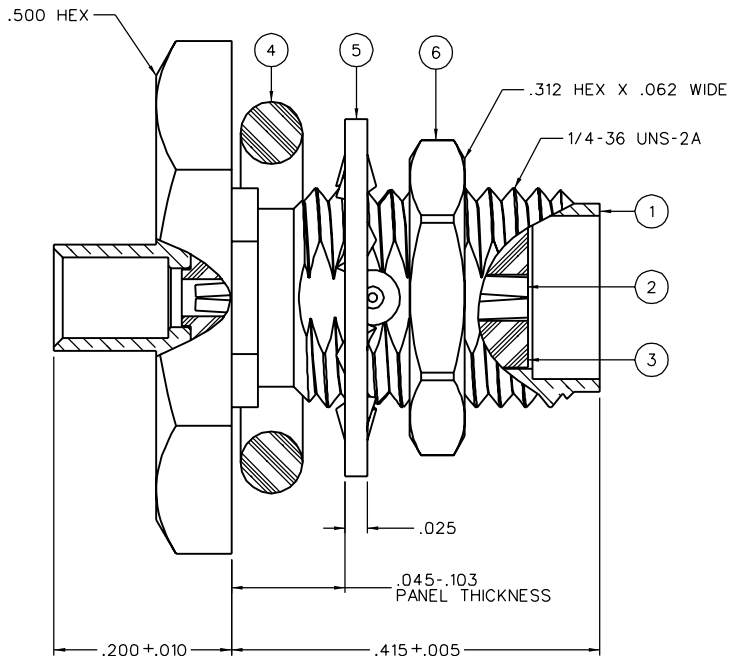


3:1



SEE POINTING DETAIL

## CABLE STRIP DIMENSIONS



### NOTES:

#### 1. SPECIFICATIONS:

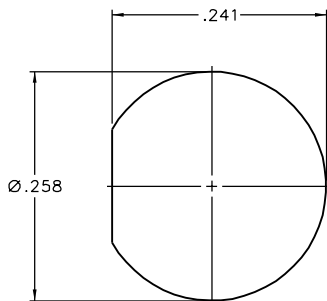
IMPEDANCE: 50 OHMS  
 FREQUENCY RANGE: 0-25 GHZ  
 VSWR: 1.07+ .01F(GHZ) MAX AT 0-18 GHZ, TYPICALLY < 1.30 AT 18-25 GHZ  
 WORKING VOLTAGE: 335 VRMS MAX AT SEA LEVEL  
 DIELECTRIC WITHSTANDING VOLTAGE: 1000 VRMS MIN AT SEA LEVEL  
 INSULATION RESISTANCE: 5000 MEGOHM MIN  
 CONTACT RESISTANCE:  
 CENTER CONTACT - INITIAL 5.0 MILLIOHM MAX, AFTER ENVIRONMENTAL 8.0 MILLIOHM MAX  
 OUTER CONDUCTOR - INITIAL 2.0 MILLIOHM MAX, AFTER ENVIRONMENTAL NOT APPLICABLE  
 BODY TO CABLE - 0.5 MILLIOHM MAX  
 CORONA LEVEL: 250 VOLTS MIN AT 70,000 FEET  
 INSERTION LOSS: .03√F (F IN GHZ), TESTED AT 10 GHZ  
 RF LEAKAGE: -90 DB MIN AT 2 TO 3 GHZ  
 RF HIGH POTENTIAL WITHSTANDING VOLTAGE: 670 VRMS AT 4 AND 7 MHZ

#### MECHANICAL:

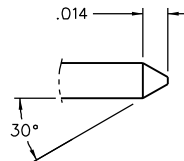
ENGAGE/DISENGAGE TORQUE: 2 INCH-POUNDS MAX  
 MATING TORQUE: 7-10 INCH-POUNDS  
 COUPLING PROOF TORQUE: NOT APPLICABLE  
 COUPLING NUT RETENTION: NOT APPLICABLE  
 CONTACT RETENTION: 6 LBS MIN AXIAL FORCE  
 CABLE ACCEPTABILITY: RG-405, .086 OD SEMIRIGID  
 CABLE HEX CRIMP SIZE: NOT APPLICABLE  
 CABLE RETENTION: 30 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 115°C HIGH TEMP  
 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



## MOUNTING HOLE



## POINTING DETAIL

20:1

DRAWING NO.  
C-142-0593-421/430

0 REVISIONS

ENGINEERING RELEASE

1 10-25-04 R K S 5-11-05 ECN 49497

## CUSTOMER DRAWING

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

"μSTATION"

## COMPANY CONFIDENTIAL

|                                      |              |            |                                                                               |
|--------------------------------------|--------------|------------|-------------------------------------------------------------------------------|
| TOLERANCE UNLESS OTHERWISE SPECIFIED | DRAWN BY     | DATE       | Connectivity Solutions<br>P.O. Box 1732<br>Waseca, MN 56093<br>1-800-247-8256 |
|                                      | JRK          | 9-21-04    |                                                                               |
| DECIMALS                             | CHECKED BY   | DATE       | EMERSON<br>Network Power                                                      |
| .XX                                  | JCN          | 10-27-04   |                                                                               |
| .XXX REF                             | APPROVED BY  | DATE       | TITLE                                                                         |
|                                      | TJS          | 12-27-04   |                                                                               |
| MATL                                 | RELEASE DATE | 5-11-05    | SMA BKHD JACK ASSY<br>ONE PIECE CONNECTOR,<br>RG-405, .086 SEMI-RIGID         |
| FINISH                               | U/M INCH     | SCALE 10:1 |                                                                               |
| SHEET 2 OF 2                         |              |            | DRAWING NO.<br>C-142-0593-421/430                                             |