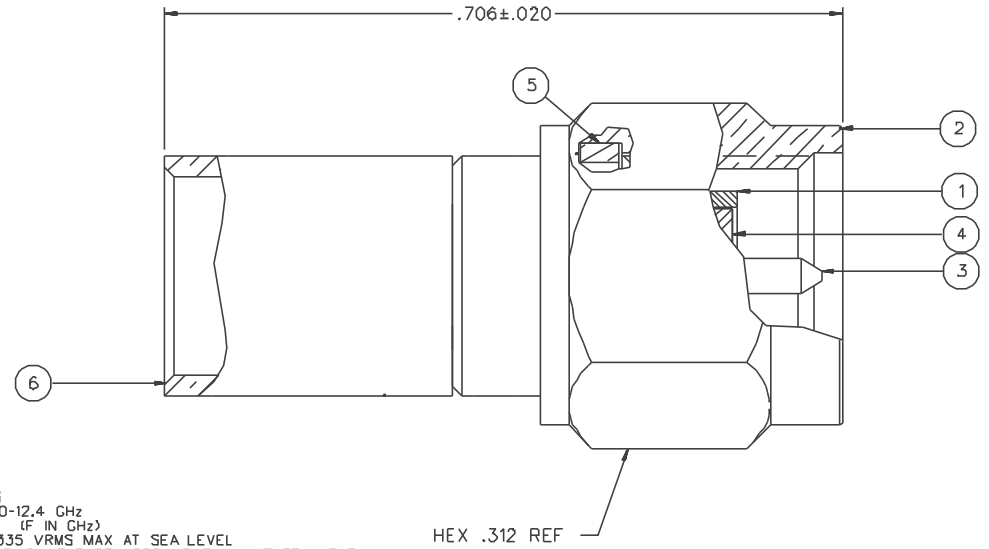
| PART NUMBER | ITEM ① BODY | ITEM ② NUT | ITEM ③ CONTACT | ITEM ④ INSULATOR | ITEM ⑤ RETENTION SPRING | ITEM ⑥ CRIMP SLEEVE |
|---|---|---|---|---|---|---|
| 142-0407-011 | BRASS<br>GOLD PL .00001 MIN OVER<br>NICKEL PL .0DDD5 MIN OVER<br>COPPER PL .00005 MIN | BRASS<br>GOLD PL .00001 MIN OVER<br>NICKEL PL .00005 MIN OVER<br>COPPER PL .00005 MIN | BRASS<br>GOLD PL .000D5 MIN OVER<br>NICKEL PL .00005 MIN OVER<br>COPPER PL .00005 MIN | TEFLON | BERYLLIUM COPPER<br>UNPLATED | COPPER<br>GOLD PL .00001 MIN OVER<br>NICKEL PL .00DD5 MIN OVER<br>COPPER PL .00005 MIN |
| 142-0407-012 | COPPER<br>GOLD PL .00005 MIN OVER<br>COPPER PL .00005 MIN | COPPER<br>GOLD PL .00005 MIN OVER<br>COPPER PL .00005 MIN | COPPER<br>GOLD PL .000D5 MIN OVER<br>COPPER PL .00005 MIN | TEFLON | BERYLLIUM COPPER<br>UNPLATED | COPPER<br>GOLD PL .00005 MIN OVER<br>COPPER PL .00005 MIN |
| 142-0407-013 | BRASS<br>GOLD PL .00005 MIN OVER<br>COPPER PL .00005 MIN | BRASS<br>GOLD PL .00005 MIN OVER<br>COPPER PL .00005 MIN | BRASS<br>GOLD PL .000D5 MIN OVER<br>COPPER PL .00005 MIN | TEFLON | BERYLLIUM COPPER<br>UNPLATED | COPPER<br>GOLD PL .00005 MIN OVER<br>COPPER PL .00005 MIN |
| 142-0407-014 | COPPER<br>SILVER PL .00005 MIN OVER<br>COPPER PL .000075 MIN | COPPER<br>SILVER PL .00005 MIN OVER<br>COPPER PL .000075 MIN | COPPER<br>SILVER PL .00005 MIN OVER<br>COPPER PL .000075 MIN | TEFLON | BERYLLIUM COPPER<br>UNPLATED | COPPER<br>SILVER PL .0DDD5 MIN OVER<br>COPPER PL .000075 MIN |
| 142-0407-015 | BRASS<br>SILVER PL .00005 MIN OVER<br>COPPER PL .000075 MIN | BRASS<br>SILVER PL .00005 MIN OVER<br>COPPER PL .000075 MIN | BRASS<br>SILVER PL .00005 MIN OVER<br>COPPER PL .000075 MIN | TEFLON | BERYLLIUM COPPER<br>UNPLATED | COPPER<br>SILVER PL .0DDD5 MIN OVER<br>COPPER PL .000075 MIN |
| 142-0407-016 | BRASS<br>NICKEL PL .0DD1 MIN OVER<br>COPPER PL .00005 MIN | BRASS<br>NICKEL PL .0001 MIN OVER<br>COPPER PL .00005 MIN | BRASS<br>GOLD PL .000D5 MIN OVER<br>NICKEL PL .00005 MIN OVER<br>COPPER PL .00005 MIN | TEFLON | BERYLLIUM COPPER<br>UNPLATED | COPPER<br>NICKEL PL .00D1 MIN OVER<br>COPPER PL .00005 MIN |




NOTES:

1. SPECIFICATIONS:

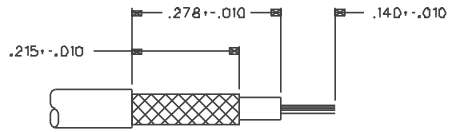
IMPEDANCE: 50 OHMS
FREQUENCY RANGE: 0-12.4 GHz
VSWR: 1.15+.01 F MAX (F IN GHz)
WORKING VOLTAGE: 335 VRMS MAX AT SEA LEVEL
DIELECTRIC WITHSTANDING VOLTAGE: 1000 VRMS MIN AT SEA LEVEL
INSULATION RESISTANCE: 5000 MEGOHM MIN
CONTACT RESISTANCE:
CENTER CONTACT - INITIAL 3.0 MILLIOHM MAX, AFTER ENVIRONMENTAL 4.0 MILLIOHM MAX
OUTER CONDUCTOR - INITIAL 2.0 MILLIOHM MAX AFTER ENVIRONMENTAL NOT APPLICABLE
BODY TO CABLE - 0.5 MILLIOHM MAX (GOLD PLATED & SILVER PLATED) 5.0 MILLIOHM MAX (NICKEL PLATED)
CORONA LEVEL: 250 VOLTS MIN AT 70,000 FEET
INSERTION LOSS: .06 $\sqrt{F}$ MAX (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 AXIAL FORCE
CABLE ACCEPTABILITY: RG 58/U, RG 141/U RG 303/U,
CABLE HEX CRIMP SIZE: .213
CONTACT CRIMP TOOL: P/N 144-0000-910 WITH POSTIONER 141-000D-007
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° 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 D
MOISTURE RESISTANCE: MIL-STD-202, METHOD 106




CABLE STRIP DIMENSIONS

4:1

DRAWING NO. C - 142-0407-011/020

| 0 | REVISIONS | | | | |
|---|---|---|---|---|---|
| | ENGINEERING RELEASE | | | | |
| 1 | 6-15-92 | RH | PW | | 6-30-92 ECO 41115 |
| | ADDED: P/N 142-0407-011 | | | | |
| 2 | 7-19-93 | RH | PW | | 7-22-93 ECO 41953 |
| | VERSION UPDATE | | | | |
| 2a | 4-20-95 | RH | SWTA | AH | 6-1-95 ECN 43206 |
| | ADDED: P/N 142-0407-012 | | | | |
| 2b | 12-8-98 | RH | | | ECN 46058 |
| | CHANGED: 142-0407-012 AND -014 ITEMS 1, 2 AND 3 COPPER WAS BRASS | | | | |
| 2c | 6-11-99 | RH | BA | | ECN 46404 |
| | ADDED: P/N 142-0407-013 | | | | |
| 2d | 2-22-00 | RH | RJB | F | 3-1-00 ECN 47002 |
| | ADDED: P/N 142-0407-015 | | | | |
| 2e | 3-30-00 | RH | J | | 4-4-00 ECN 47046 |
| | VERSION UPDATE | | | | |
| 2f | 5-30-00 | RH | SK | BH | 6-7-00 ECN 47098 |
| | ADDED: CRIMP TOOL P/N'S | | | | |
| | * REVISION NUMBER FOLLOWED BY AN ALPHA * CHARACTER INDICATES DRAWING CLARIFI- * CATION OR PART NUMBER ADDITION ONLY. * | | | | |
| 2g | 12-7-00 | RH | JI | | ECN 47445 |

CUSTOMER DRAWING

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

"μSTATION"

COMPANY CONFIDENTIAL

| TOLERANCE UNLESS OTHERWISE SPECIFIED | | DRAWN BY | DATE | Johnson Components | 299 Johnson Ave. P.O. Box 1732 Waseca, MN 56093-0832 |
|---|---|---|---|---|---|
| DECIMALS | mm | TAK | 2-26-92 | | |
| .XX | | CHECKED BY | DATE | TITLE | PLUG ASSEMBLY, STRAIGHT CABLED SMA, RG 58 |
| .XXX | | | | | |
| MATL | | APPROVED BY TAK | DATE 6-25-92 | | |
| FINISH | | APPROVED BY RJB | DATE 6-26-92 | CODE NO. | DRAWING NO. C - 142-0407-011/020 |
| | | RELEASE DATE | 6-30-92 | SCALE 10:1 | U/M INCH SHEET 2 OF 2 |