

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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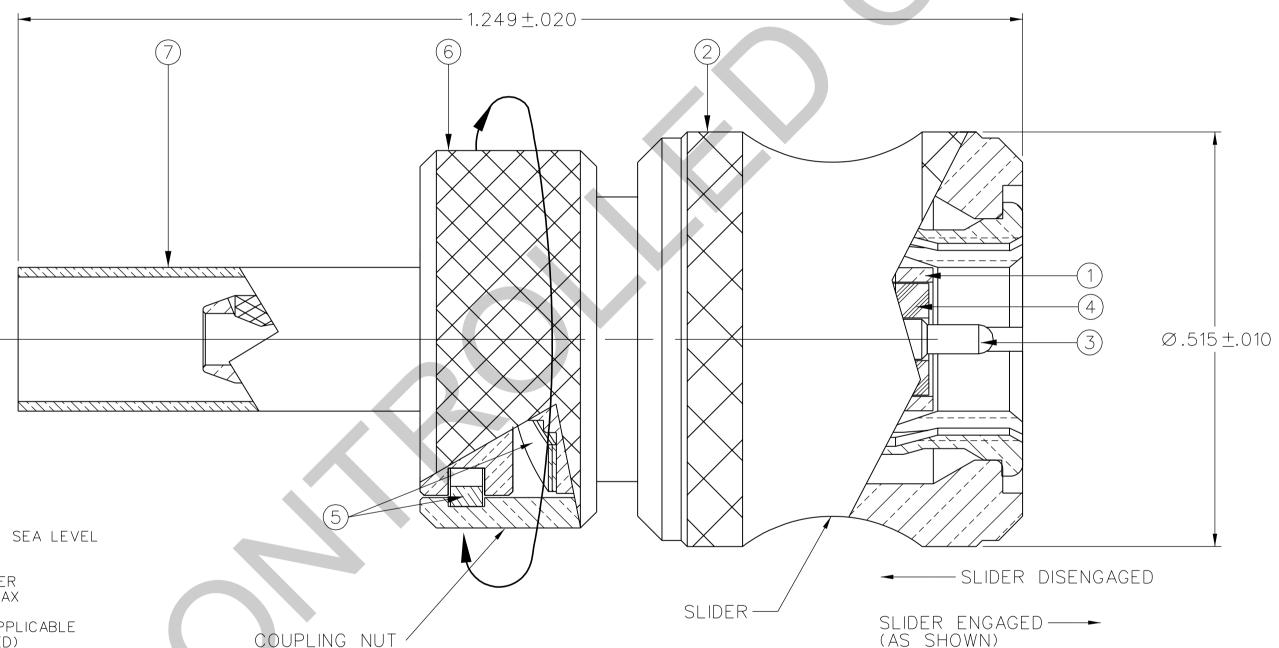




ITEM (1) ITEM (2) ITEM (3) ITEM (4) ITEM (5) ITEM 6 ITEM (7) BODY SLIDER CRIMP SLEEVE PART NUMBER CONTACT INSULATOR | RETENTION SPRINGS COUPLING NUT BERYLLIUM COPPER GOLD PL .00005 MIN OVER NICKEL PL .00005 MIN OVER COPPER PL .00005 MIN BERYLLIUM COPPER BERYLLIUM COPPER NICKEL PL .0001 MIN OVER COPPER BRASS TEFLON BRASS 142-1404-001 NICKEL PL .0001 MIN OVER COPPER PL .00005 MIN NICKEL PL .0001 MIN OVER GOLD PL .00001 MIN OVER UNPLATED NICKEL PL .00005 MIN OVER COPPER PL .00005 MIN COPPER PL .00005 MIN COPPER PL .00005 MIN

# INSTRUCTIONS FOR USE:

- 1. WITH SLIDER AT THE ENGAGED POSITION, THE CONNECTOR FUNCTIONS LIKE A STANDARD SMA CONNECTOR. TIGHTEN (SPIN) THE KNURLED COUPLING NUT BY HAND TO OBTAIN FULL MATING ENGAGEMENT OR DISENGAGEMENT.
- 2. QUICK CONNECT:
- A. WITH SLIDER AT THE DISENGAGED POSITION, SLIDE THE CABLED CONNECTOR ONTO AN SMA JACK RECEPTACLE, OVER THE JACK THREADS BY PUSHING ON THE BACK OF THE KNURLED NUT.
- B. ENGAGE THE SLIDER WHILE MAINTAINING LIGHT FORWARD PRESSURE ON THE NUT. THIS ACTION IS DONE BY SLIPPING YOUR FINGERS FROM THE NUT TO THE SLIDER IN ONE MOTION.
- C. ONCE THE SLIDER IS ENGAGED THE KNURLED NUT CAN BE TURNED 1 TURN OR LESS TO OBTAIN FULL ENGAGEMENT SMA PERFORMANCE.
- D. DISENGAGE THE CONNECTOR BY FIRST LOOSENING THE KNURLED NUT A PARTIAL TURN. THEN DISENGAGE THE SLIDER AND REMOVE THE CONNECTOR.



CAUTION:

ENGAGEMENTS.

1. THIS SMA PLUG CONNECTOR IS DESIGNED FOR HIGH DURABILITY AND LONG LIFE IN TEST APPLICATIONS.

HOWEVER, IT IS DESIGNED FOR LIMITED MATINGS

WITH A SINGLE JACK RECEPTACLE. AN SMA JACK RECEPTACLE MAY EXPERIENCE THREAD PLATING WEAR AFTER MANY

### NOTES:

#### 1. SPECIFICATIONS:

IMPEDANCE: 50 OHMS FREQUENCY RANGE: 0-12.4 GHz VSWR: 1.15+.02 F MAX (F IN GHz) WORKING VOLTAGE: 250 VRMS MAX AT SEA LEVEL DIELECTRIC WITHSTANDING VOLTAGE: 750 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)
5.0 MILLIOHM MAX (NICKEL PLATED)

CORONA LEVEL: 190 VOLTS MIN AT 70,000 FEET INSERTION LOSS: .06 VF dB MAX (F IN GHz) AT 6 GHz RF LEAKAGE: -60 DB MIN AT 2.5 GHz

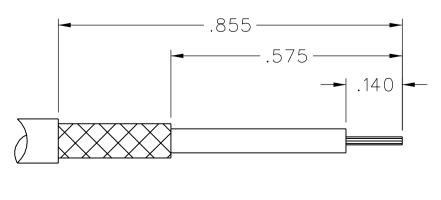
RF HIGH POTENTIAL WITHSTANDING VOLTAGE: 500 VRMS MIN AT 4 AND 7 MHz

#### 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 316/U DOUBLE SHIELDED RG 188/U DOUBLE SHIELDED CABLE HEX CRIMP SIZE: .151 CABLE RETENTION: 20 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 D MOISTURE RESISTANCE: MIL-STD-202, METHOD 106



(TURN TO TIGHTEN)

4:1

CABLE STRIP DIMENSIONS

DATE DRAWN BY TOLERANCE UNLESS OTHERWISE SPECIFIED 12-22-03 T.A.Kari DECIMALS CHECKED BY DATE .XX TITLE XXX. APPROVED BY DATE MATL RELEASE DATE 12-22-03

INCH

U/M

SCALE

FINISH

8:1

Cinch Connectivity Solutions P.O. Box 1732

Waseca, MN 56093

STRAIGHT CABLED PLUG QUICK CONNECT COUPLING, SMA, RG 316DS, CRIMP TYPE

DRAWING NO.

CUSTOMER DRAWING

DRAWING NO.

ENGINEERING RELEASE

03-02-04

- 142-1404-001/010

REVISIONS

ECN 49130

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

'μSTATION''

COMPANY CONFIDENTIAL

1-800-247-8256

SHEET - 142-1404-001/010