

| PART NUMBER  | ITEM ①<br>BODY  | ITEM ②<br>SLIDER  | ITEM ③<br>CONTACT  | ITEM ④<br>INSULATOR      | ITEM ⑤<br>RETENTION SPRING                | ITEM ⑥<br>COUPLING NUT   | REV | ECO             | DATE      |
|--------------|---|---|--|--------------------------|---|--|-----|-----------------|-----------|
| 147-0901-831 | BRASS<br>GOLD PL .00003 MIN OVER<br>NICKEL PL .00005 MIN OVER<br>COPPER | 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 | NOT SHOWN<br>PLOYSTYRENE | NOT SHOWN<br>BERYLLIUM COPPER<br>UNPLATED | BERYLLIUM COPPER<br>NICKLE PL .0001 MIN OVER<br>COPPER PL .00005 MIN | 1   | INITIAL RELEASE | 21JUN2021 |

INSTRUCTIONS FOR USE:

1. WITH SLIDER IN THE ENGAGED POSITION THE CONNECTOR FUNCTIONS LIKE A STANDARD SMA CONNECTOR. TIGHTEN (SPIN) THE KNURLED NUT BY HAND TO OBTAIN FULL MATING ENGAGEMENT OR DISENGAGEMENT.

2. QUICK CONNECT FUNCTION:

2.1 WITH SLIDER IN THE DISENGAGED POSITION. SLIDE THE CABLED CONNECTOR ONTO THE JACK RECEPTACLE, OVER THE JACK THREADS BY PUSHING ON THE BACK OF KNURLED NUT.

2.2 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.

2.3 ONCE THE SLIDER IS ENGAGED THE KNURLED NUT CAN BE TURNED 1 TURN OR LESS TO OBTAIN FULL MATING ENGAGEMENT PERFORMANCE.

2.4 DISENGAGE THE CONNECTOR BY FIRST LOOSENING THE COUPLING NUT A PARTIAL TURN. THEN DISENGAGE THE SLIDER AND REMOVE THE CONNECTOR.

NOTES:

1. ELECTRICAL SPECIFICATIONS:

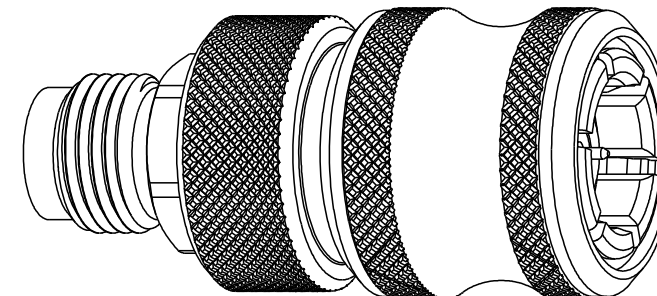
- 1.1 IMPEDANCE: 50 OHMS
- 1.2 FREQUENCY RANGE: DC-50 GHz
- 1.3 VSWR: 1.05+.005F (GHz) DC-40 GHz  
1.3 MAX 40 GHz-50 GHz
- 1.4 WORKING VOLTAGE: 150 VRMS MAX AT SEA LEVEL
- 1.5 DIELECTRIC WITHSTANDING VOLTAGE: 500 VRMS MIN AT SEA LEVEL
- 1.6 INSULATION RESISTANCE: 5000 MEGOHM MIN
- 1.7 CONTACT RESISTANCE:
  - 1.7.1 CENTER CONTACT - INITIAL 4.0 MILLIOHM MAX, AFTER ENVIRONMENTAL NOT APPLICABLE
  - 1.7.2 OUTER CONDUCTOR - INITIAL 2.5 MILLIOHM MAX, AFTER ENVIRONMENTAL NOT APPLICABLE
  - 1.7.3 BRAID TO BODY - NOT APPLICABLE
- 1.8 CORONA LEVEL: 375 VOLTS MIN AT 70,000 FEET
- 1.9 INSERTION LOSS: 0.05/F MAX (F IN GHz)
- 1.10 RF LEAKAGE: -90 dB TYPICAL AT 2.5 GHz
- 1.11 RF HIGH POTENTIAL WITHSTANDING VOLTAGE: 1000 VRMS MIN AT 4 MHz AND 7 MHz

2. MECHANICAL SPECIFICATIONS:

- 2.1 ENGAGE/DISENGAGE TORQUE: 2 INCH-POUNDS MAX
- 2.2 MATING TORQUE: 7-10 INCH-POUNDS
- 2.3 COUPLING PROOF TORQUE: 15 INCH-POUNDS MIN
- 2.4 COUPLING NUT RETENTION: 60 LBS MIN
- 2.5 CONTACT RETENTION: 6 LBS MIN AXIAL FORCE
- 2.6 CABLE ACCEPTABILITY: NOT APPLICABLE
- 2.7 CABLE HEX CRIMP SIZE : NOT APPLICABLE
- 2.8 CABLE RETENTION: NOT APPLICABLE
- 2.9 DURABILITY: 1000 CYCLES MIN

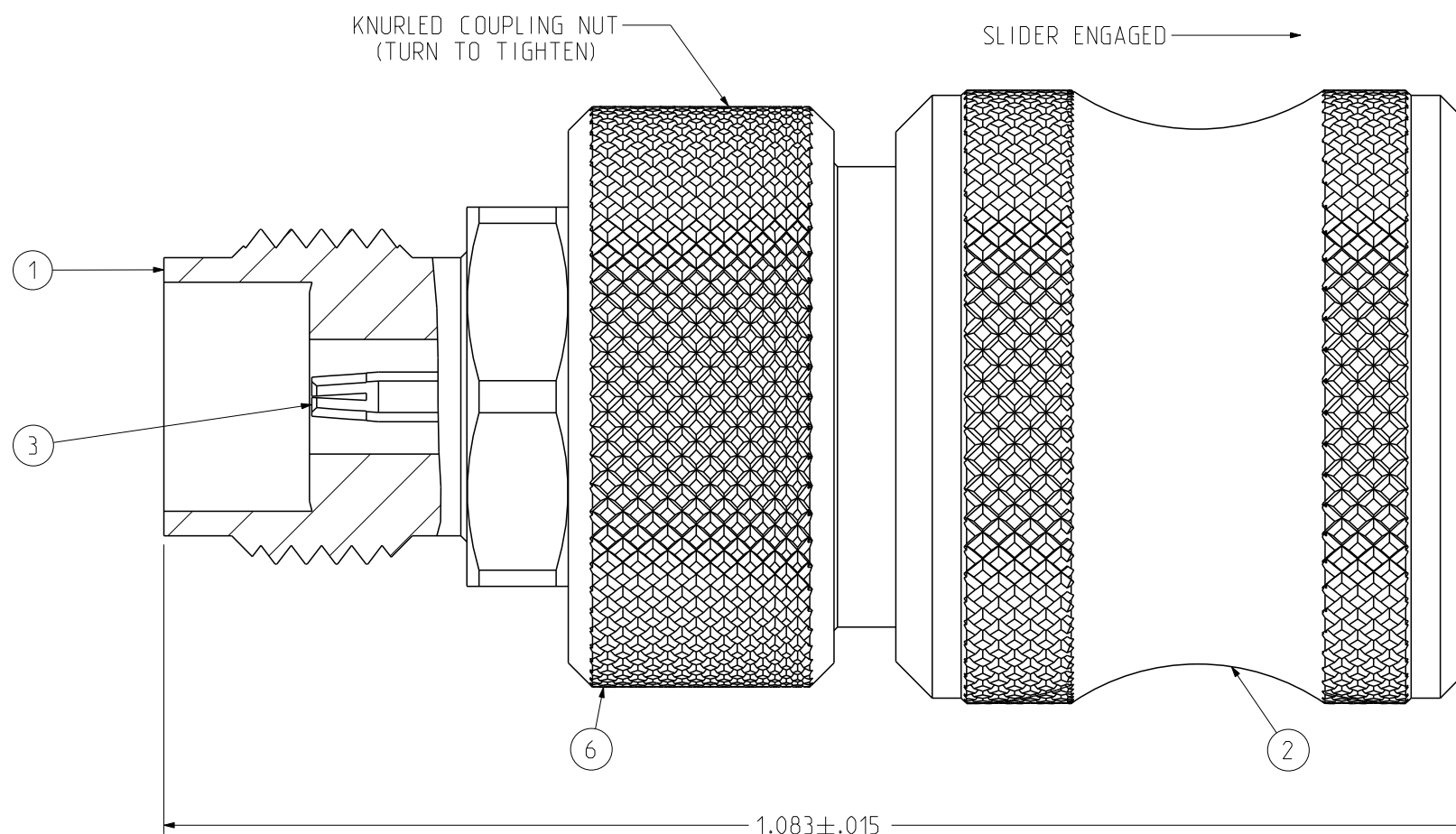
3. ENVIRONMENTAL:

- (MEETS OR EXCEEDS THE APPLICABLE PARAGRAPH OF MIL-A-55339)
- 3.1 THERMAL SHOCK: MIL-STD-202, METHOD 107, CONDITION B
- 3.2 OPERATING TEMPERATURE: -65 °C TO 165 °C
- 3.3 CORROSION: MIL-STD-202, METHOD 101, CONDITION B
- 3.4 SHOCK: MIL-STD-202, METHOD 213, CONDITION I
- 3.5 VIBRATION: MIL-STD-202, METHOD 204, CONDITION D
- 3.6 MOISTURE RESISTANCE: MIL-STD-202, METHOD 106



← SLIDER DISENGAGED (AS SHOWN)

SLIDER ENGAGED →



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| <p>This PROPRIETARY Document is property of Cinch Connectivity Solutions. It is confidential in nature, non-transferable, and issued with the clear understanding that it is not traced or copied without permission and is returnable upon demand.</p> <p>INTERPRET DRAWING IN ACCORDANCE WITH ASME Y14.5-2009.</p> | Model No: 147-0901-831/840  | JOHNSON  |   |
|  | RoHS <input checked="" type="checkbox"/> (EU)/2015/863 COMPLIANT<br>UNLESS OTHERWISE SPECIFIED UNITS: INCH<br>.XX ± .01<br>.XXX ± .003<br>.XXXX ± .0010<br>ANGLE ± 2° | Title: 2.4MM QUICK CONNECT ADAPTOR IN SERIES, PLUG TO JACK<br>Drawing No: 147-0901-831/840<br>Date: 06/21/2021 | 3RD ANGLE PROJECTION<br>Drawn by: Jimmy Chen<br>Size: B<br>DO NOT SCALE DRAWING |