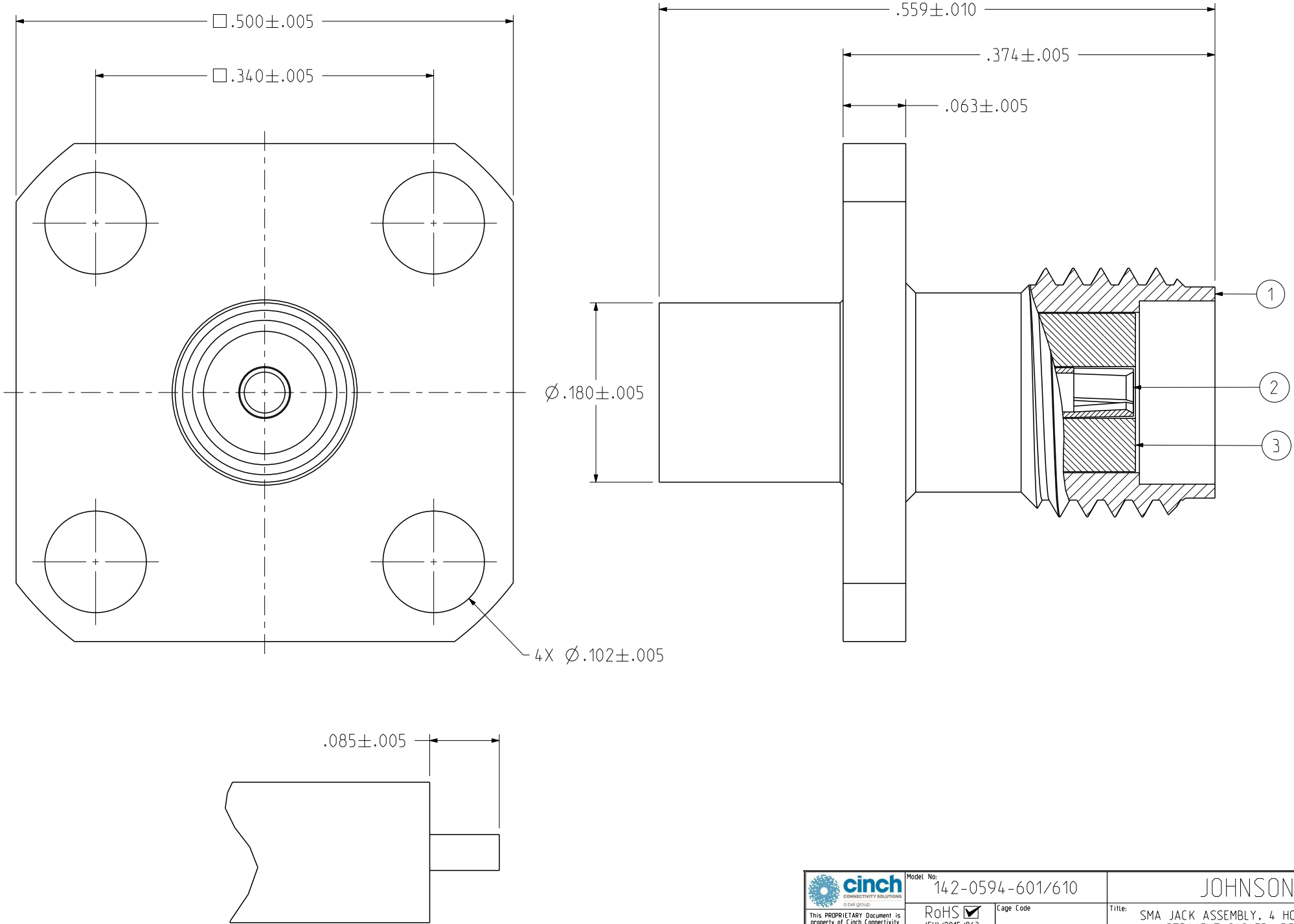


| PART NUMBER  | ITEM ①<br>BODY                                                          | ITEM ②<br>CONTACT                                                                  | ITEM ③<br>INSULATOR |
|--------------|-------------------------------------------------------------------------|------------------------------------------------------------------------------------|---------------------|
| 142-0594-601 | BRASS<br>GOLD PL .00001 MIN OVER<br>NICKEL PL .00005 MIN<br>OVER COPPER | BERYLLIUM COPPER<br>GOLD PL .00005 MIN OVER<br>NICKEL PL .00005 MIN<br>OVER COPPER | TEFLON              |

| REV | ECO             | DATE       |
|-----|-----------------|------------|
| 1   | INITIAL RELEASE | 11/18/2021 |
|     |                 |            |
|     |                 |            |

- NOTES:
1. ELECTRICAL SPECIFICATIONS:
- 1.1 IMPEDANCE: 50 OHMS
  - 1.2 FREQUENCY RANGE: 0-18 GHz
  - 1.3 VSWR: 1.50 MAX
  - 1.4 WORKING VOLTAGE: 500 VRMS MAX AT SEA LEVEL
  - 1.5 DIELECTRIC WITHSTANDING VOLTAGE: 1500 VRMS MIN AT SEA LEVEL
  - 1.6 INSULATION RESISTANCE: 5000 MEGOHM MIN
  - 1.7 CONTACT RESISTANCE:
    - 1.7.1 CENTER CONTACT - INITIAL 3.0 MILLIOHM MAX, AFTER ENVIRONMENTAL 4.0 MILLIOHM MAX
    - 1.7.2 OUTER CONDUCTOR - INITIAL 2.0 MILLIOHM MAX, AFTER ENVIRONMENTAL NOT APPLICABLE
  - 1.8 CORONA LEVEL: 375 VOLTS MINIMUM AT 70,000 FEET
  - 1.9 INSERTION LOSS: .03\*SQRT(F) MAX (F IN GHz) AT 10 GHz
  - 1.10 RF LEAKAGE: -90 DB MIN AT 2 TO 3 GHz
  - 1.11 RF HIGH POTENTIAL WITHSTANDING VOLTAGE: 1000 VRMS MIN AT 5 AND 7.5 MHz
2. MECHANICAL SPECIFICATIONS:
- 2.1 ENGAGE/DISENGAGE TORQUE: 2 IN LBS MAX
  - 2.2 MATING TORQUE: 7-10 IN LBS
  - 2.3 CABLE ACCEPTABILITY: RG402 DIA .141 SEMIRIGID
  - 2.4 CABLE RETENTION: 60 LBS MIN AXIAL FORCE  
55 INCH-OUNCE MIN TORQUE
  - 2.5 DURABILITY: 500 CYCLES MIN
3. ENVIRONMENTAL:  
(MEETS OR EXCEEDS THE APPLICABLE PARAGRAPH OF MIL-PRF-39012)
- 3.1 THERMAL SHOCK: MIL-STD-202, METHOD 107, CONDITION B, EXPECT 115°C HIGH TEMP
  - 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



CABLE STRIP DIMENSIONS

|                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                      |                                                                       |                                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------|
| <br><small>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.</small><br><small>INTERPRET DRAWING IN ACCORDANCE WITH ASME Y14.5-2009.</small> | Model No:<br>142-0594-601/610                                                                        | JOHNSON                                                               |                                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                  | RoHS <input checked="" type="checkbox"/><br>(EU)/2015/863<br>COMPLIANT                               | Cage Code                                                             | Title:<br>SMA JACK ASSEMBLY, 4 HOLE FLANGE<br>STRAIGHT CABLED, RG 402 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                  | UNLESS OTHERWISE SPECIFIED<br>UNITS: INCH<br>.XX ± .01<br>.XXX ± .003<br>.XXXX ± .0010<br>ANGLE ± 2° | 3RD ANGLE PROJECTION<br>Drawn by:<br>TOMMY REN<br>Date:<br>11/18/2021 | Drawing No.<br>142-0594-601/610                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                  | Size<br>B                                                                                            | DO NOT SCALE<br>DRAWING                                               | Workmanship Std: Sheet<br>NONE<br>1 OF 1                              |

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