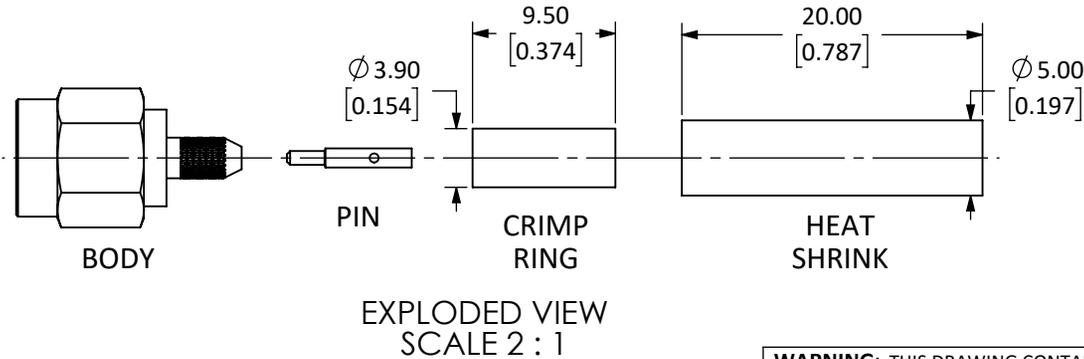
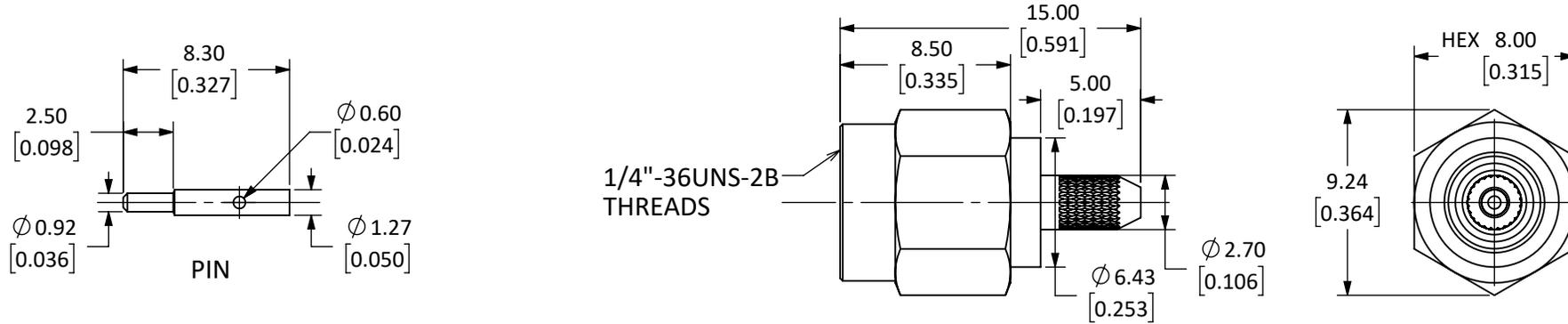


| | | | |
|--------------------------------|-------------------|-----------|-------------|
| Connector: SMA Plug (Male Pin) | | | |
| Termination: Cable End Crimp | | | |
| Part Number | | CONSMA007 | CONSMA007-G |
| Connector Part | Material | Finish | Finish |
| Bodies | Body: Brass | Nickel | Gold |
| | Crimp Ring: Brass | Nickel | Gold |
| Center Contact | Pin: Brass | Gold | Gold |
| Insulator | PTFE | - | - |
| Gasket | Silicone Rubber | - | - |
| Heat Shrink | Polyolefin | - | - |

| REVISIONS | | | |
|-----------|--|-----------|------|
| REV | DESCRIPTION | DATE | APPV |
| A | INITIAL RELEASE OF LINX INTERNAL DRAWING | 01/MAR/19 | CLL |



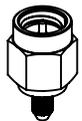
NOTES: (UNLESS OTHERWISE SPECIFIED)

1. ALL DIMENSIONS ARE IN mm [INCHES].
2. DIMENSIONS APPLY AFTER FINISHING.
3. MANUFACTURE TO BE COMPLIANT WITH EU RoHS DIRECTIVE, USE MATERIALS THAT DO NOT CONTAIN REACH SUBSTANCES OF VERY HIGH CONCERN >1000ppm, AND USE DRC CONFLICT-FREE SOURCED MATERIALS.
4. SAFETY BREAK ALL SHARP CORNERS AND EDGES 0.5 MAXIMUM.
5. SEE TABLE I FOR ELECTRICAL SPECIFICATIONS. (SHEET 2)
6. SEE TABLE II FOR ENVIRONMENTAL SPECIFICATIONS. (SHEET 2)
7. SEE TABLE III FOR MECHANICAL SPECIFICATIONS. (SHEET 2)
8. SEE PARTSLIST. "*" INDICATES FINISH TYPE.

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| | | |
|-----------|--|--|
| MATERIAL: | TOLERANCES: 0.50 [0.020]-5.00 [0.200]= ±0.20 [0.008] 5.00 [0.200]-30.00 [1.200]= ±0.40 [0.016] 30.0 [1.20]-120.0 [4.75]= ±0.60 [0.24] 120.0 [4.75]-315.0 [12.40]= ±1.0 [0.040] | PROJECTION:  |
| FINISH: | DRAWN: M. SCHULTE | DT: 21/JAN/19 |
| | ENGR: D. VARATHARAJAN | DT: 08/MAR/19 |

| | | | |
|--|----------------------|----------------------------------|--|
| Linx | | 159 ORT LANE MERLIN, OR 97532 | |
| TITLE: SMA MALE CABLE END CRIMP FOR RG-174 CABLE | | | |
| SIZE | DWG. NO. | REV | |
| A | CONSMA007-* | A | |
| SCALE: 3:1 | DO NOT SCALE DRAWING | SHEET 1 OF 2 | |



SCALE 1 : 1

5 TABLE I

| Electrical Data | Detail |
|---------------------------------|--|
| Impedance | 50 Ω |
| Frequency Range | 0 to 18 GHz |
| Insulation Resistance | 5 000 M Ω min. |
| Voltage Rating | 1 000 V RMS |
| Contact Resistance | Center: ≤ 3.0 m Ω Outer: ≤ 2.5 m Ω |
| VSWR: f (GHz) | RG-174, or Equivalent $1.15+0.02f$ |
| Working Voltage | RG-174, or Equivalent $\rightarrow 335$ V RMS max. |
| Dielectric Withstanding Voltage | RG-174, or Equivalent $\rightarrow 750$ V RMS max. |

6 TABLE II

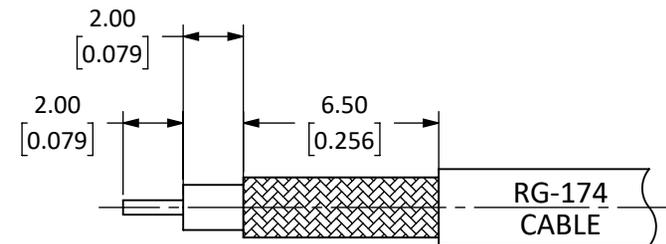
| Environmental Data | Detail |
|--------------------------|---|
| Corrosion (Salt spray) | ASTM B-117 |
| Thermal Shock | MIL-STD-202 Method 107 test condition B |
| Vibration | MIL-STD-202 Method 204 test condition D |
| Mechanical Shock | MIL-STD-202 Method 213 test condition I |
| Temperature Range | -55 $^{\circ}$ C to +155 $^{\circ}$ C |
| Environmental Compliance | RoHS |

7 TABLE III

| Mechanical Data | Detail |
|------------------------|---------------------------|
| Mounting Type | Free Hanging (In-Line) |
| Fastening Type | 1/4"-36 Threaded Coupling |
| Recommended Torque | 0.57 N·m (5.0 in·lbs) |
| Coupling Nut Retention | 60 lbs. min. |
| Connector Durability | 500 cycles min. |
| Weight | 3 g (0.1 oz) |

ASSEMBLY INSTRUCTIONS

1. Strip the cable to the recommended dimensions.
2. Slip heat shrink and crimp ring onto stripped cable.
3. Solder the pin to the center-conductor.
4. Insert the pin, center-conductor and insulator into the body until the top of the pin is flush with the opening of the body.
5. Wrap the braid around the tail of the body and crimp the ring with a 0.128" hex crimp tool, (or one labeled for use with RG-174 cable).
6. Use heat shrink to cover crimp.



RECOMMENDED CABLE STRIPPING DIMENSIONS
CAN ALSO BE USED WITH:
RG-188A & RG-316

| SIZE | DWG. NO. | REV |
|------------|----------------------|--------------|
| A | CONSMA007-* | A |
| SCALE: 1:1 | DO NOT SCALE DRAWING | SHEET 2 OF 2 |