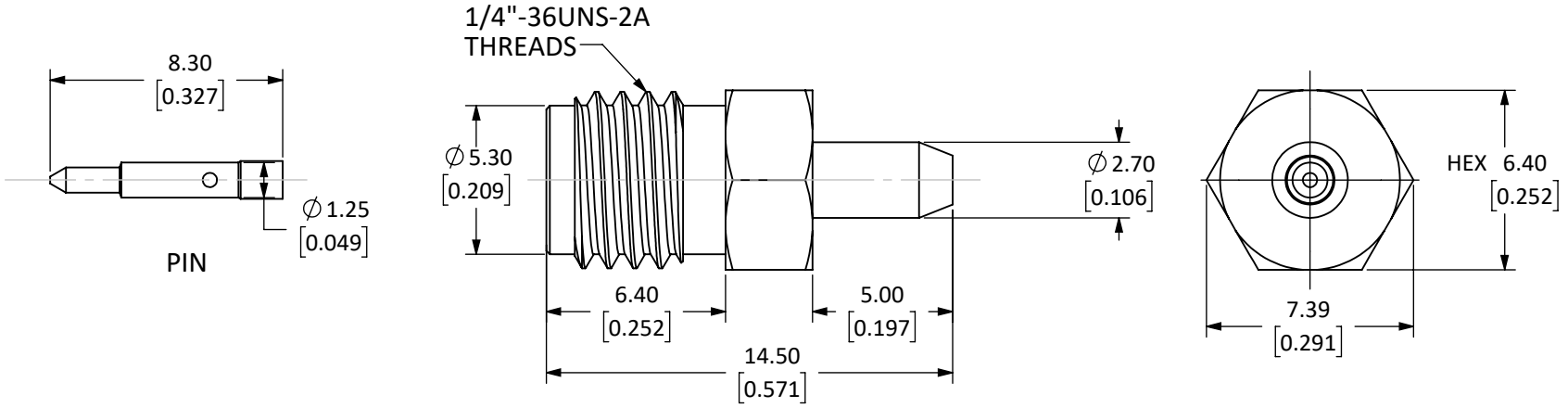
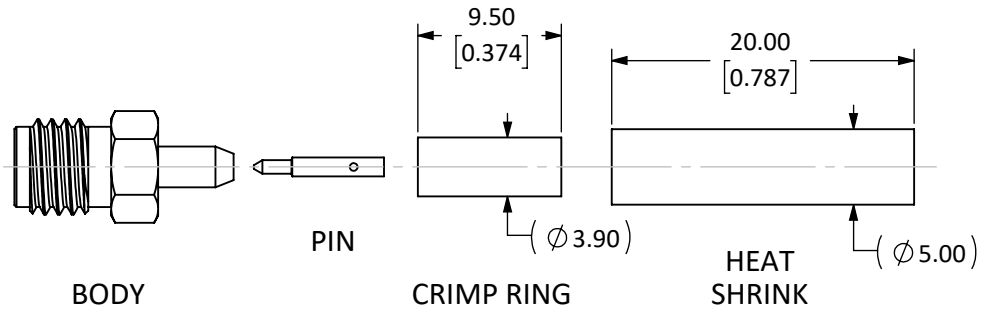
Connector: RP-SMA Jack (Male Pin)		
Termination: Cable End Crimp		
Connector Part	Material	Finish
Body	Brass	Nickel
Pin	Brass	Gold
Insulator	PTFE	–
Gasket	Silicone Rubber	–
Crimp Ring	Brass	Nickel
Heat Shrink	Polyolefin	Black

REVISIONS			
REV	DESCRIPTION	DATE	APPV
A	NEW FRAME; ADD HEAT SHRINK	4/26/10	CJ
B	UPDATED FOOTPRINT AND DIMENSIONS. ADDED NEW TITLE BLOCK.	2-JUL-12	SAH
C	ADDED ELECTRICAL, MECHANICAL AND ENVIRONMENTAL SPECIFICATIONS.		





NOTES: (UNLESS OTHERWISE SPECIFIED)

1. ALL DIMENSIONS ARE IN MILLIMETERS [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)



SCALE 1 : 1

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MATERIAL:

INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5.
.X ±.1
.XX ±.01
.XXX ±.005
ANGLES: ±1°
SURFACE: 32

PROJECTION:

FINISH:

DRAWN: DT: 09/JUL/19

ENGR: DT:

159 ORT LANE
MERLIN, OR 97532

TITLE:
RP-SMA FEMALE CABLE END CRIMP FOR RG-174 CABLE

SIZE	DWG. NO.	REV
A	C-CONREVSMA011	A

SCALE: 4:1 DO NOT SCALE DRAWING SHEET 1 OF 2

5 TABLE I

Electrical Data	Detail
Impedance	50 Ω
Frequency Range	0 to 18 GHz
Insulation Resistance	5000 MΩ min.
Voltage Rating	1000 V RMS
Contact Resistance	Center: ≤ 3.0 mΩ Outer: ≤ 2.5 mΩ
Working Voltage	RG-174, or equivalent → 335 V rms max.
Dielectric Withstanding Voltage	RG-174, or equivalent → 750 V rms max.
VSWR: f (GHz)	RG-174, or equivalent 1.15+0.02f

6 TABLE II

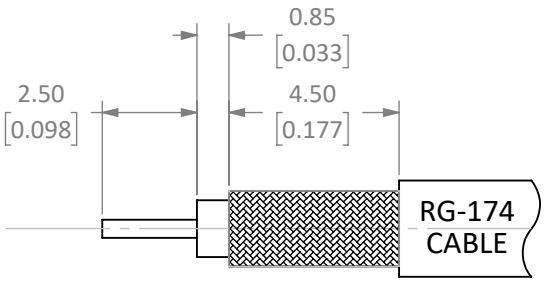
Environmental Data	Detail
Corrosion (Salt spray)	ASTM B-117
Thermal Shock	MIL-STD-202 Method 107 test condition B
Vibration	MIL-STD-202 Method 204 test condition D
Mechanical Shock	MIL-STD-202 Method 213 test condition I
Temperature Range	-55 °C to +155 °C
Environmental Compliance	RoHS

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	1.9 g (0.07 oz)

ASSEMBLY INSTRUCTIONS

1. Strip cable to recommended dimensions.
2. Slip heat shrink onto stripped cable.
3. Solder the pin to the center conductor.
4. Insert the pin, center-conductor, and insulator into the body.
5. Wrap the braid aroound 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 and RG-316

SIZE	DWG. NO.	REV
A	CONREVSMA011	C
SCALE: 5:1	DO NOT SCALE DRAWING	SHEET 2 OF 2