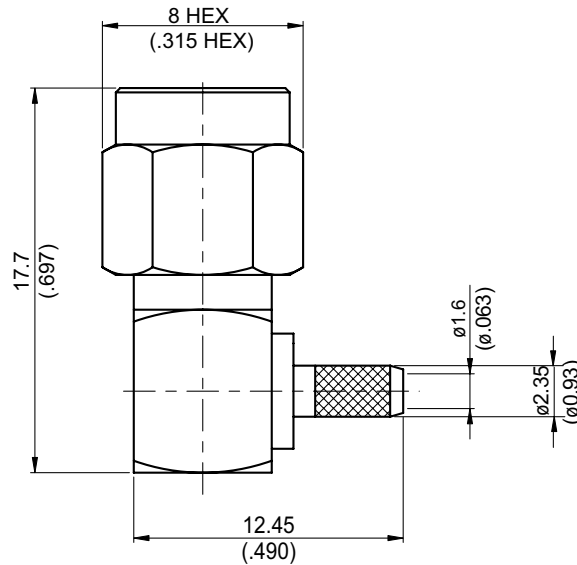


SMA31NP-9316

**SMA Plug Crimp Right Angle**  
**For RG174, RG188, RG316; 11GHz VSWR 1.2 50Ω**



Parts	Material	Plating (Micro-inch)
Ferrule	Copper	Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20
Cover	Brass	Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20
Renbrock Ring	Beryllium Copper	Tin-Zinc-Copper-Alloy 100 Over Copper 50
Gasket	Silicon	
Contact Pin	Brass	Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20
Insulator	Teflon	
Barrel	Brass	Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20
Body	Brass	Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20
Coupling Nut	Stainless	Passivated

Weight: 4.58 g

Suitable Cables: RG174, RG188, RG316, RG316-FEP

## SMA

## SMA31NP-9316

## Interface

MIL-STD-348B

Mechanically compatible with

2.92 &amp; 3.5

## Electrical Data

Impedance

50 $\Omega$ 

Frequency range

DC to 11GHz

VSWR

 $\leq 1.2$  (DC to 11GHz)

Insertion loss

 $\leq 0.04 \times \sqrt{f(\text{GHz})}$  dB

Insulation resistance

 $\geq 5000\text{M}\Omega$ 

Contact resistance inner conductor

 $\leq 3\text{m}\Omega$ 

Contact resistance outer conductor

 $\leq 2\text{m}\Omega$ 

Dielectric withstanding voltage (at sea level)

750 V rms

Working voltage (at sea level)

250 V rms

## Mechanical Data

Recommended coupling nut torque

7 to 9.5 inch lbs

Coupling proof torque

15 inch lbs

Coupling nut retention force

 $\geq 60.7$  lbs

Contact Captivation-axial

 $\geq 6.1$  lbs

Durability (mating)

 $\geq 500$ 

## Environmental Data

Temperature range

-65°C to +165°C

Thermal shock

MIL-STD-202, Method 107, Condition B

Moisture resistance

MIL-STD-202, Method 106

Corrosion

MIL-STD-202, Method 101, Condition B

RoHS

Compliant

## Tooling

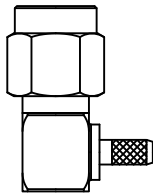
Crimping tool

CRT-1 or CRT-2

Crimp insert

INSERT-A

A



BODY

B



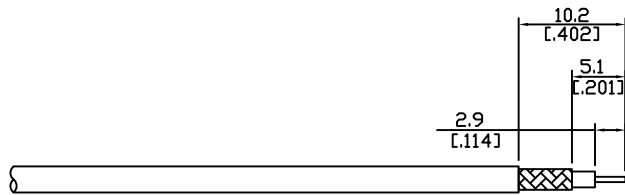
COVER

C



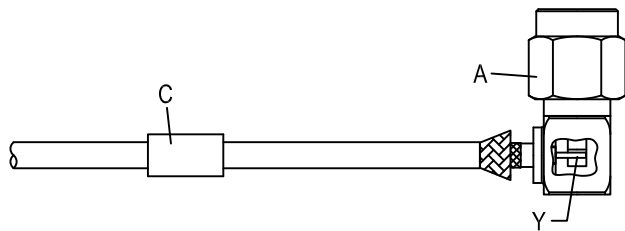
FERRULE

## DIAGRAM



## ASSEMBLY INSTRUCTION

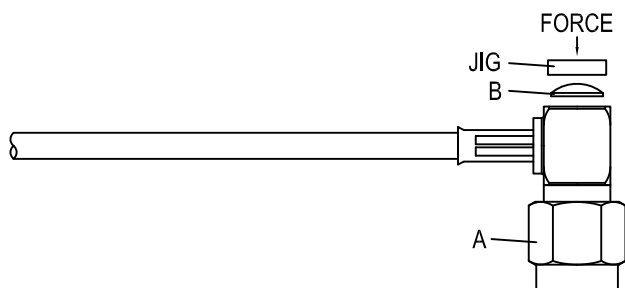
Step 1: STRIP AS SHOWN.



Step 2: SLIDE FERRULE " C " OVER CABLE.  
 Step 3: WRAP THE BRAIDING UPWARDS.  
 Step 4: SLIDE CENTER CONDUCTOR ON THE CONTACT PIN OF CONNECTOR " A " AND SOLDER IN " Y ".

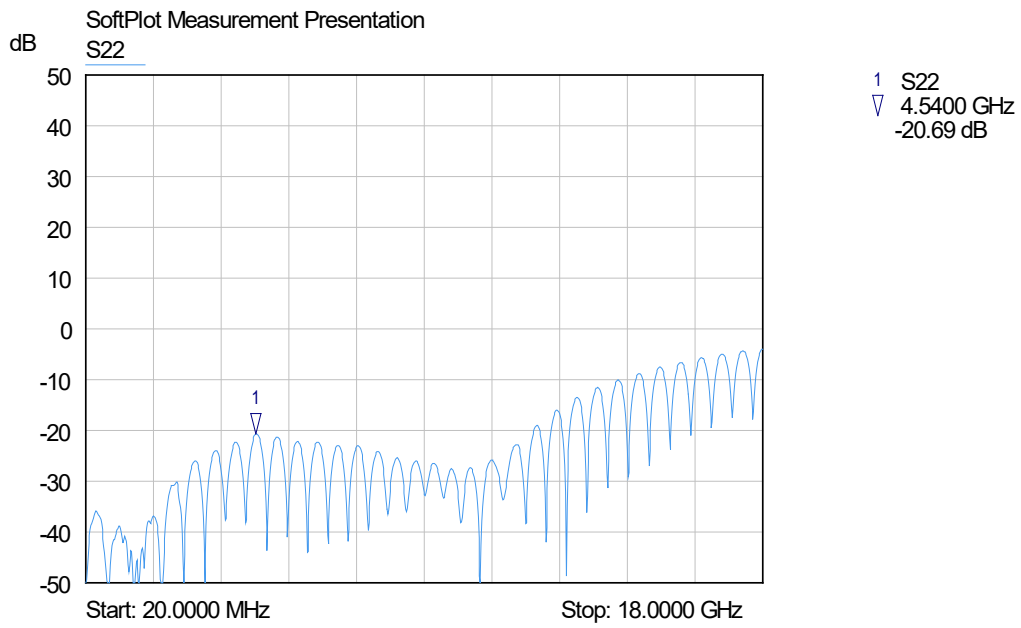


Step 5: SLIDE FERRULE " C " TOWARDS THE CONNECTOR " A " AND CRIMP.  
 (USE 3.3mm/0.130inch HEX SECTION OF INSERT-A)



Step 6: PRESS ON THE TOP OF " B " WITH JIGS.

# SMA31NP-9316



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