

SMB Plug Right Angle to BNC Male Cable Using ET-RG316 Coax In 48 Inch Length



# RF Cable Assemblies Technical Data Sheet

ET30938

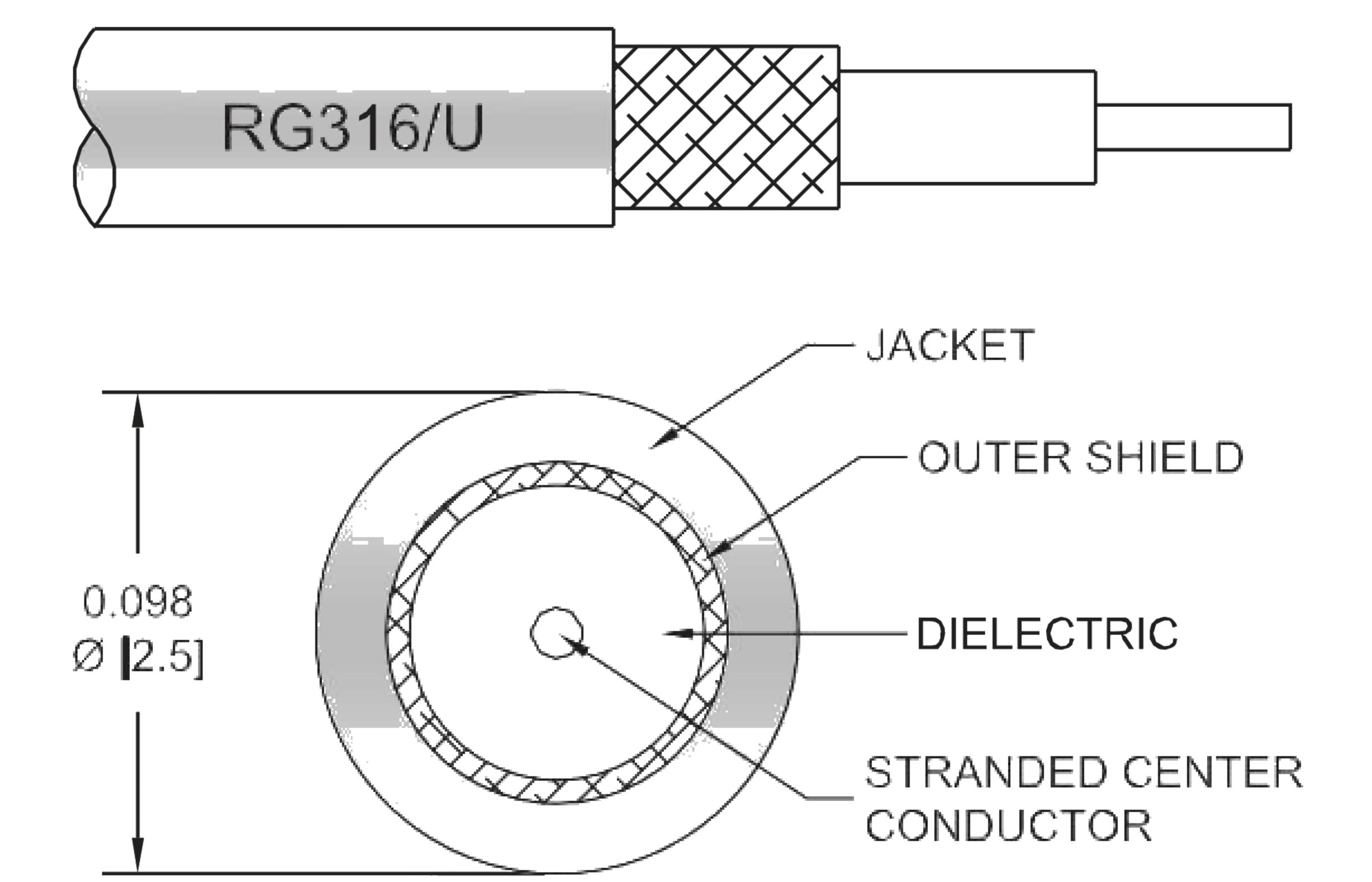
# Configuration

• Connector 1: SMB Plug Right Angle

Connector 2: BNC Male
Cable Type: ET-RG316

# Features

- Max Frequency 3 GHz
- 69% Phase Velocity
- FEP Jacket



# Applications

General Purpose

Laboratory Use

### Description

Ebeestock's ET30938 SMB plug right angle to BNC male 48 inch cable using ET-RG316 coax is part of our full line of RF components available for same-day shipping. Ebeestock's flexible RF cable assemblies are ideal for applications where tight bends and flexure are required. This Ebeestock SMB to BNC cable assembly has a plug to male gender configuration with 50 ohm flexible ET-RG316 coax. The ET30938 SMB plug to BNC male cable assembly operates to 3 GHz. The right angle SMB interface on the ET-RG316 cable allows for easier connections in tight spaces.

Custom versions of most RF cable assemblies can be built and shipped same day. Custom cable assembly lengths can be obtained by specifying the desired length on the web site at time of order or by contacting a sales representative. Other available RF cable assembly value added services include connector orientation or clocking, heat shrink booting and custom labeling. RF testing can also be performed to document the electrical performance of your cable assembly.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SMB Plug Right Angle to BNC Male Cable Using ET-RG316 Coax In 48 Inch Length ET30938



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# Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
VSWR			1.4:1	
Velocity of Propagation		69		%
Capacitance		29.4 [96.46]		pF/ft [pF/m]
DC Resistance Inner Conductor		8.41 [27.59]		Ω/1000ft [Ω/Km]
Operating Voltage (AC)			250	Vrms
Jacket Spark			2,000	Vrms

# Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	3	GHz
Insertion Loss (Typ.)	0.51	0.74	1.1	1.72	2.67	dB

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1\*SQRT(FGHz) dB per connector.

## Mechanical Specifications

### Cable Assembly

Length\* 48 in [121.92 cm]
Weight 0.053 lbs [24.04 g]

# Cable

Cable Type
Impedance
Inner Conductor Type

ET-RG316
50 Ohms
Stranded

Inner Conductor Material and Plating Copper Clad Steel, Silver

Shield Layer 1
Silver Plated Copper Braid

Jacket Material FEP, Tan

Jacket Diameter 0.102 in [2.59 mm]

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#### Connectors

Description	Connector 1	Connector 2  BNC Male	
Type	SMB Plug Right Angle		
Specification	MIL-STD-348A	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms	
Contact Material and Plating	Beryllium Copper, Gold	Brass, Gold	
Contact Plating Specification	30 µin minimum	50μ in. minimum	
Dielectric Type	PTFE	Teflon	
Outer Conductor Material and Plating	Brass, Nickel		
Outer Conductor Plating Specification	100 μin minimum		
Body Material and Plating	Brass, Nickel	Brass, Nickel	
Body Plating Specification	100 μin minimum	100μ in. minimum	
Coupling Nut Material and Plating		Brass, Nickel	
Coupling Nut Plating Specification		100μ in. minimum	

# **Environmental Specifications**

Temperature

Operating Range

-55 to +165 deg C

Compliance Certifications (see product page for current document)

### Plotted and Other Data

Notes:

Values at 25°C, sea level.

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www.ebeestock.com



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#### How to Order

Part Number Configuration:

ET3C1917 - xx uu

Unit of Measure:

cm = Centimeters

<br/>
<br/>
<br/>
<br/>
chlank> = Inches

Base Number

Example: ET3C1917-12 = 12 inches long cable

ET3C1917-100cm = 100 cm long cable

SMB Plug Right Angle to BNC Male Cable Using ET-RG316 Coax In 48 Inch Length from Ebeestock Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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**URL:** https://www.ebeestock.com/smb-plug-right-angle-to-bnc-male-cable-using-rg316-coax-in-12-in ch-length-0030935

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