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RF Cable Assemblies Technical Data Sheet

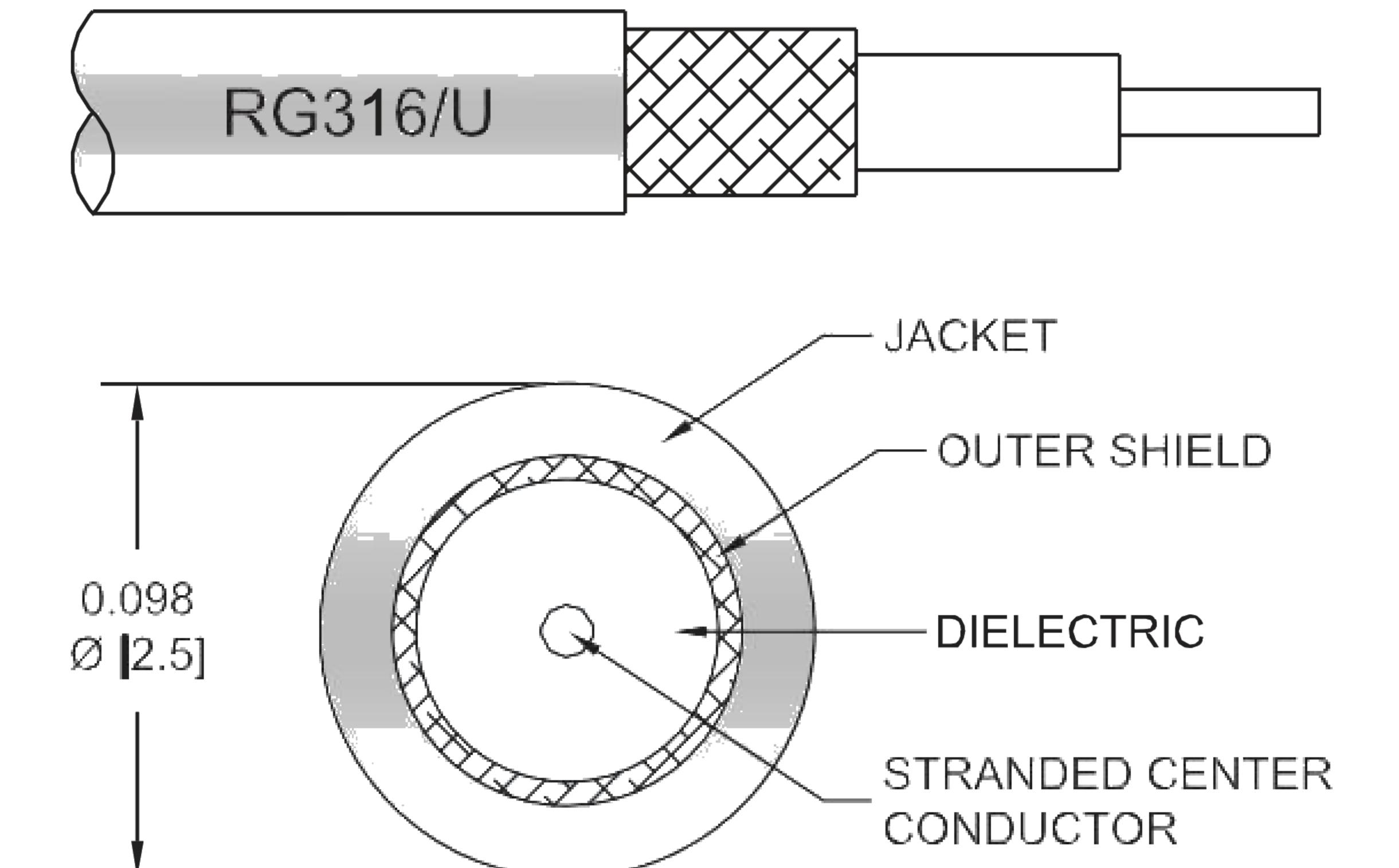
ET31201

Configuration

Connector 1: SMA Male
Connector 2: SMB Jack
Cable Type: ET-RG316

Features

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



Applications

General Purpose

Laboratory Use

Description

Ebeestock's ET31201 SMA male to SMB jack 60 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 SMA to SMB cable assembly has a male to jack gender configuration with 50 ohm flexible ET-RG316 coax. The ET31201 SMA male to SMB jack cable assembly operates to 3 GHz.

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: SMA Male to SMB Jack Cable 60 Inch Length Using ET-RG316 Coax ET31201



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
VSWR			1.5:1	
Velocity of Propagation		69		%
Jacket Spark			2,000	Vrms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	3	GHz
Insertion Loss (Max.)	1	1.39	2.1	2.85	3.1	dB

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax in this assembly. The Insertion Loss includes an estimated insertion loss of 0.2dB of connector loss.

Mechanical Specifications

Cable Assembly

Length* 60 in [152.4 cm]
Weight 0.07 lbs [31.75 g]

Cable

Cable Type
Impedance
Inner Conductor Type

ET-RG316
50 Ohms
Stranded

Inner Conductor Material and Plating Copper Clad Steel, Silver

Dielectric Type

Number of Shields

1

Shield Layer 1 Silver Plated Copper Braid

Jacket Material FEP, T

Jacket Diameter 0.098 in [2.49 mm]

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Connectors

Description	Connector 1	Connector 2	
Туре	SMA Male	SMB Jack	
Impedance	50 Ohms	50 Ohms	
Contact Material and Plating	Brass, Gold	Brass, Gold	
Contact Plating Specification		30 µin minimum	
Dielectric Type	PTFE	PTFE	
Body Material and Plating	Brass, Gold	Brass, Nickel	
Body Plating Specification		100 μin minimum	
Coupling Nut Material and Plating	Brass, Gold		
Hex Size	5/16 in		
Torque	5 in-lbs [0.57 Nm]		

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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How to Order

Example: ET3W03014-12 = 12 inches long cable

ET3W03014-100cm = 100 cm long cable

SMA Male to SMB Jack Cable 60 Inch Length Using ET-RG316 Coax 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SMA Male to SMB Jack Cable 60 Inch Length Using ET-RG316 Coax ET31201

URL: https://www.ebeestock.com/sma-male-to-smb-jack-cable-12-inch-length-using-rg316-coax-00311

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Ebeestock reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Ebeestock does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Ebeestock does not assume any liability arising out of the use of any part or documentation.

8th Floor, Building 1, Yongfu Science and Technology Center Industrial Park, Nanzha District 5, Humen,523900, Dongguan, Guangdong, China.

