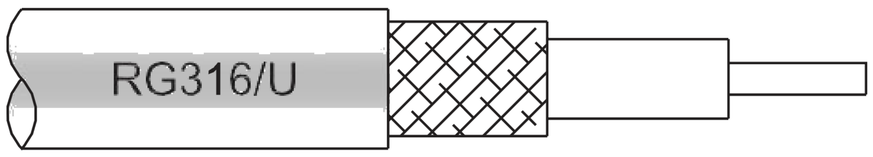
SMA Male to SMB Jack Cable 24 Inch Length Using ET-RG316 Coa

x

# RF Cable Assemblies Technical Data Sheet ET31198

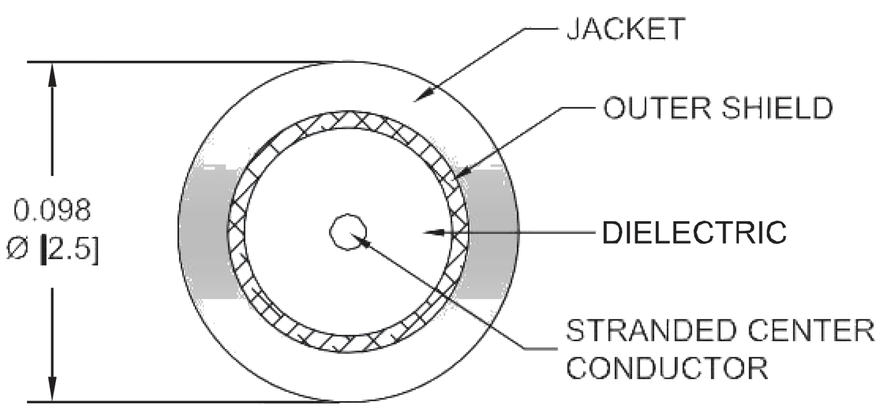
## Configuration

- 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 ET31198 SMA male to SMB jack 24 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 ET31198 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 24 Inch Length Using ET-RG316 Coax ET31198

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

Webstie:www.ebeestock.com Email:sales@ebeestock.com

© 2022 Ebeestock Enterprises All Rights Reserved

SMA Male to SMB Jack Cable 24 Inch Length Using ET-RG316 Coa

x

# RF Cable Assemblies Technical Data Sheet ET31198

## 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.) | 0.52 | 0.68 | 0.96 | 1.26 | 1.36 | 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* | 24 in [609.6 mm] |
| Weight | 0.04 lbs [18.14 g] |

### Cable

| | |
|---|---|
| Cable Type | ET-RG316 |
| Impedance | 50 Ohms |
| Inner Conductor Type | Stranded |
| Inner Conductor Material and Plating | Copper Clad Steel, Silver |
| Dielectric Type | PTFE |
| Number of Shields | 1 |
| Shield Layer 1 | Silver Plated Copper Braid |
| Jacket Material | FEP, Tan |
| Jacket Diameter | 0.098 in [2.49 mm] |

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 24 Inch Length Using ET-RG316 Coax ET31198

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

Webstie:www.ebeestock.com Email:sales@ebeestock.com

© 2022 Ebeestock Enterprises All Rights Reserved

SMA Male to SMB Jack Cable 24 Inch Length Using ET-RG316 Coa

x

# RF Cable Assemblies Technical Data Sheet ET31198

## Connectors

| Description | Connector 1 | Connector 2 |
|---|---|---|
| Type | 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:

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 24 Inch Length Using ET-RG316 Coax ET31198

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

Webstie:www.ebeestock.com Email:sales@ebeestock.com

© 2022 Ebeestock Enterprises All Rights Reserved

SMA Male to SMB Jack Cable 24 Inch Length Using ET-RG316 Coa

x

# RF Cable Assemblies Technical Data Sheet ET31198

## How to Order

Part Number Configuration: **ET3W03014 - xx uu**

- ET3W03014 — Length Base Number
- xx — Length
- uu — Unit of Measure:
  - cm = Centimeters
  - <blank> = Inches

Example: ET3W03014-12 = 12 inches long cable
ET3W03014-100cm = 100 cm long cable

SMA Male to SMB Jack Cable 24 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 24 Inch Length Using ET-RG316 Coax ET31198

**URL:** https://www.ebeestock.com/sma-male-to-smb-jack-cable-12-inch-length-using-rg316-coax-0031197

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.

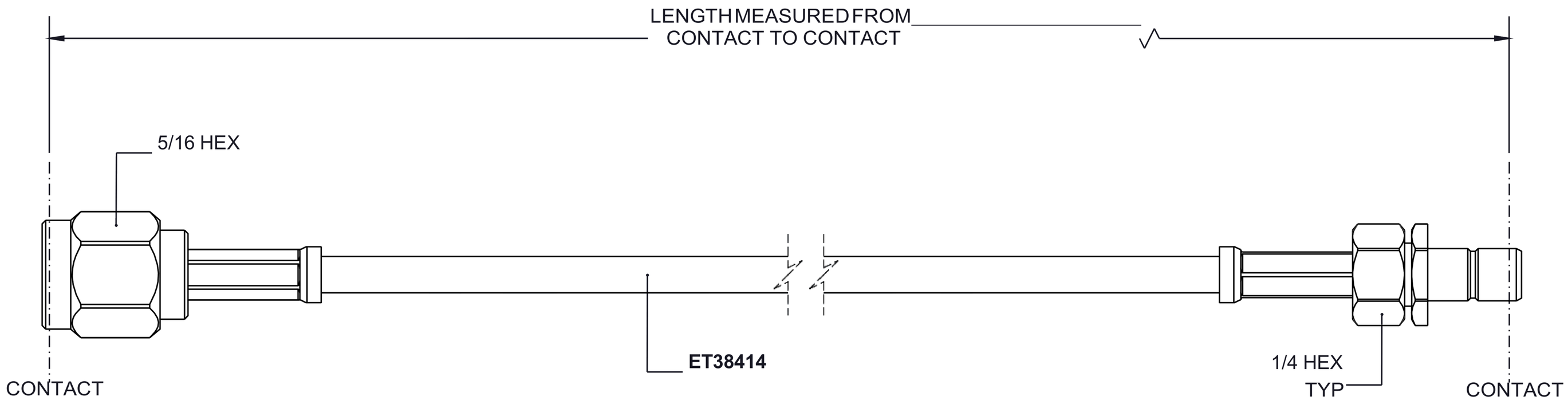
Webstie:www.ebeestock.com Email:sales@ebeestock.com

© 2022 Ebeestock Enterprises All Rights Reserved

© 2022 Ebeestock Enterprises All Rights Reserved

www.ebeestock.com

| REVISIONS | | | |
|---|---|---|---|
| REV. | DESCRIPTION | DATE | APPROVED |
| A | INITIAL RELEASE | 04/23/19 | S.ELLIS |




**SMA MALE**

**SMB JACK**

THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.

UNLESS OTHERWISE SPECIFIED
LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:

| | | |
|---|---|---|
| .X=± .2 | [5.08] | FRACTIONS |
| .XX=± .01 | [ .25 ] | ± 1/32 |
| .XXX=± .005 | [ .13 ] | ANGLES ± 1° |

ALL DIMENSIONS SHOWN
ARE FOR REFERENCE ONLY.

THIRD-ANGLE PROJECTION

PASTERNACK
an INFINITE brand
8th Floor, Building 1, Yongfu Science and Technology
Center Industrial Park
P.O.Box 16759, Irvine, CA 92623.
Phone: 1.949.261.1920 | 1.866.727.8376
Fax: 1.949.261.7451
e-mail: sales@Ebeestock.com

THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF Ebeestock CORPORATION. ALL RIGHTS RESERVED.

SHEET 1 OF 1

SCALE N/A

| SIZE | CAGE | DRAWN BY | PART NUMBER | REV |
|---|---|---|---|---|
| A | 53919 | K.DANG | ET3W03014 | A |



T-Rev.B