SMB Plug to N Female Cable 150 cm Length Using ET-ET-RG141 C oax

# RF Cable Assemblies Technical Data Sheet ET30963

## Configuration

- Connector 1: SMB Plug
- Connector 2: N Female
- Cable Type: ET-RG141

## Features

- Max Frequency 4 GHz
- 70% Phase Velocity
- PTFE (FG) Jacket

## Applications

- General Purpose
- Laboratory Use

### Description

Ebeestock's ET30963 SMB plug to type N female 150 cm cable using ET-RG141 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 type N cable assembly has a plug to female gender configuration with 50 ohm flexible ET-RG141 coax. The ET30963 SMB plug to type N female cable assembly operates to 4 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.

### Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|---|---|---|---|---|
| Frequency Range | DC | | 4 | GHz |
| VSWR | | | 1.6:1 | |
| Velocity of Propagation | | 70 | | % |
| Capacitance | | 29.4 [96.46] | | pF/ft [pF/m] |
| Jacket Spark | | | 2,000 | Vrms |

### Specifications by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|---|---|---|---|---|---|---|
| Frequency | 0.25 | 0.5 | 1 | 2.5 | 4 | GHz |
| Insertion Loss (Max.) | 0.5 | 0.6 | 0.8 | 1.3 | 1.7 | dB |

Electrical Specification Notes:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SMB Plug to N Female Cable 150 cm Length Using ET-RG141 Coax ET30963

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

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

## Mechanical Specifications

### Cable Assembly

| | |
|---|---|
| Length* | 59.05 in [149.99 cm] |

### Cable

| | |
|---|---|
| Cable Type | ET-RG141 |
| Impedance | 50 Ohms |
| Inner Conductor Type | Solid |
| Inner Conductor Material and Plating | Copper Clad Steel, Silver |
| Dielectric Type | PTFE |
| Number of Shields | 1 |
| Shield Layer 1 | Silver Plated Copper |
| Jacket Material | PTFE (FG), Beige |
| Jacket Diameter | 0.19 in [4.83 mm] |

### Connectors

| Description | Connector 1 | Connector 2 |
|---|---|---|
| Type | SMB Plug | N Female |
| Specification | MIL-STD-348A | |
| Impedance | 50 Ohms | 50 Ohms |
| Contact Material and Plating | Beryllium Copper, Gold | |
| Contact Plating Specification | 30 µin minimum | |
| Dielectric Type | PTFE | |
| Body Material and Plating | Brass, Nickel | Brass, Nickel |
| Body Plating Specification | 100 µin minimum | |

**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: SMB Plug to N Female Cable 150 cm Length Using ET-RG141 Coax ET30963

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oax

# RF Cable Assemblies Technical Data Sheet ET30963

## How to Order

Part Number Configuration: **ET3W04161 - xx uu**

- uu — Unit of Measure:
  - cm = Centimeters
  - <blank> = Inches
- xx — Length
- ET3W04161 — Base Number

Example: ET3W04161-12 = 12 inches long cable
ET3W04161-100cm = 100 cm long cable

SMB Plug to N Female Cable 150 cm Length Using ET-RG141 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: SMB Plug to N Female Cable 150 cm Length Using ET-RG141 Coax ET30963

**URL:** https://www.ebeestock.com/smb-plug-to-n-female-cable-12-inch-length-using-rg141-coax-0030956

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.

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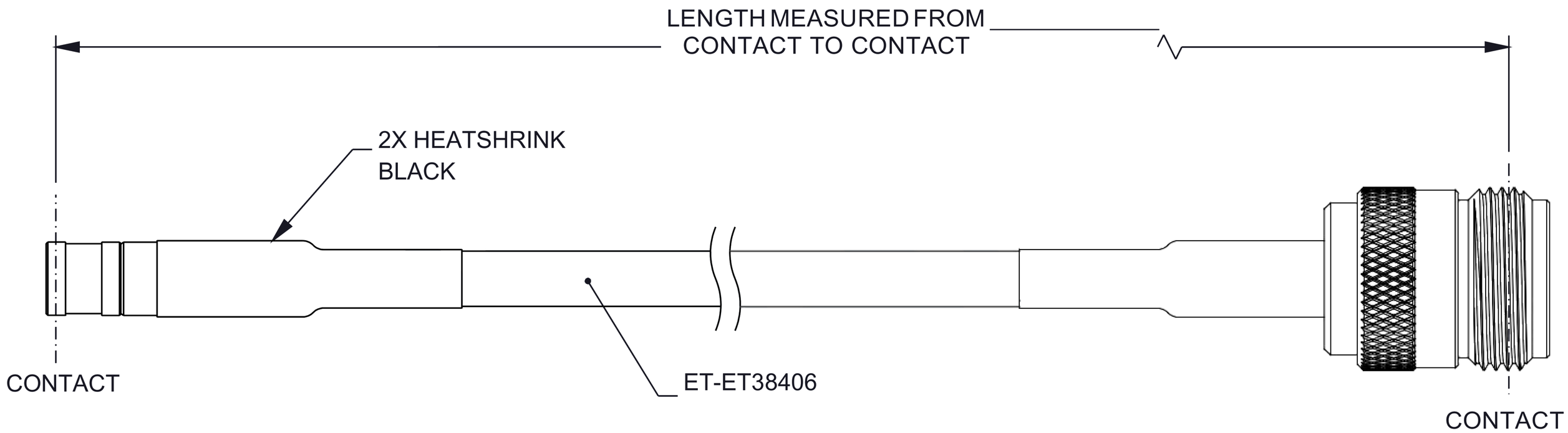
| REVISIONS | | | |
|---|---|---|---|
| REV. | DESCRIPTION | DATE | APPROVED |
| B | ADDED HEATSHRINK | 2/23/2022 | SRAUTUS |




SMB PLUG

N FEMALE

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

TOLERANCES:

.X = ±.2 [5.08] FRACTIONS
.XX = ± .02 [.51] ± 1/32
.XXX = ±.005 [ .13 ] ANGLES ± 1°

CABLE LENGTH (L) TOLERANCES:

L ≤ 12 [305] = +1 [25] / -0
12 [305] < L ≤ 60 [1524] = +2 [51] / -0
60 [1524] < L ≤ 120 [3048] = +4 [102] / -0
120 [3048] < L ≤ 300 [7620] = +6 [152] / -0
300 [7620] < L = +5%L / -0

ALL DIMENSIONS SHOWN
ARE FOR REFERENCE ONLY.

PASTERNACK
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SHEET 1 OF 1

SCALE N/A

| SIZE | CAGE CODE | DRAWN BY | ITEM NO. | REV |
|---|---|---|---|---|
| A | 53919 | KDANG | ET3W04161 | B |



T-Rev.D