



SSMC Plug to SMA Male Cable Using RG316 Coax

RF Cable Assemblies Technical Data Sheet

PE3C6306

Configuration

- Connector 1: SSMC Plug
- Connector 2: SMA Male
- Cable Type: RG316

Features

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

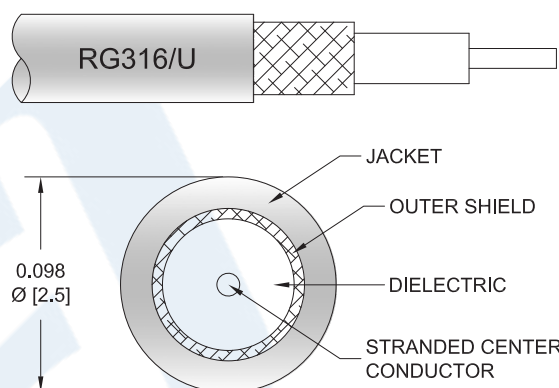
Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C6306 SSMC plug to SMA male cable using RG316 coax is part of our full line of RF components available for same-day shipping. Pasternack's flexible RF cable assemblies are ideal for applications where tight bends and flexure are required. This Pasternack SSMC to SMA cable assembly has a plug to male gender configuration with 50 ohm flexible RG316 coax. The PE3C6306 SSMC plug to SMA male 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: [SSMC Plug to SMA Male Cable Using RG316 Coax PE3C6306](#)



SSMC Plug to SMA Male Cable Using RG316 Coax

RF Cable Assemblies Technical Data Sheet

PE3C6306

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-------------------------|---------|---------|---------|-------|
| Frequency Range | DC | | 3 | GHz |
| VSWR | | | 1.4:1 | |
| Velocity of Propagation | | 69 | | % |
| 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.) | 0.11 | 0.16 | 0.23 | 0.38 | 0.58 | dB/ft |
| | 0.36 | 0.52 | 0.75 | 1.25 | 1.9 | dB/m |

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB for the straight connector.

Mechanical Specifications

Cable Assembly

Weight 0.025 lbs [11.34 g]

Cable

Cable Type 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 0.102 in [2.59 mm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SSMC Plug to SMA Male Cable Using RG316 Coax PE3C6306](#)



SSMC Plug to SMA Male Cable Using RG316 Coax

RF Cable Assemblies Technical Data Sheet

PE3C6306

Connectors

| Description | Connector 1 | Connector 2 |
|-----------------------------------|------------------------|--------------------|
| Type | SSMC Plug | SMA Male |
| Impedance | 50 Ohms | 50 Ohms |
| Mating Cycles | 500 | |
| Contact Material and Plating | Beryllium Copper, Gold | Brass, Gold |
| Dielectric Type | PTFE | PTFE |
| Body Material and Plating | Beryllium Copper, Gold | Brass, Gold |
| Coupling Nut Material and Plating | Beryllium Copper, Gold | Brass, Gold |
| Hex Size | 5/32 inch | 5/16 in |
| Torque | 1 in-lbs [0.11 Nm] | 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: [SSMC Plug to SMA Male Cable Using RG316 Coax PE3C6306](#)



SSMC Plug to SMA Male Cable Using RG316 Coax

RF Cable Assemblies Technical Data Sheet

PE3C6306

How to Order

Part Number Configuration:

PE3C6306

- **xx**

uu

Unit of Measure:
cm = Centimeters
<blank> = Inches
Length
Base Number

Example: PE3C6306-12 = 12 inches long cable
PE3C6306-100cm = 100 cm long cable

SSMC Plug to SMA Male Cable Using RG316 Coax from Pasternack 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: [SSMC Plug to SMA Male Cable Using RG316 Coax PE3C6306](https://www.pasternack.com/ssmc-plug-to-sma-male-cable-using-rg316-pe3c6306-p.aspx)

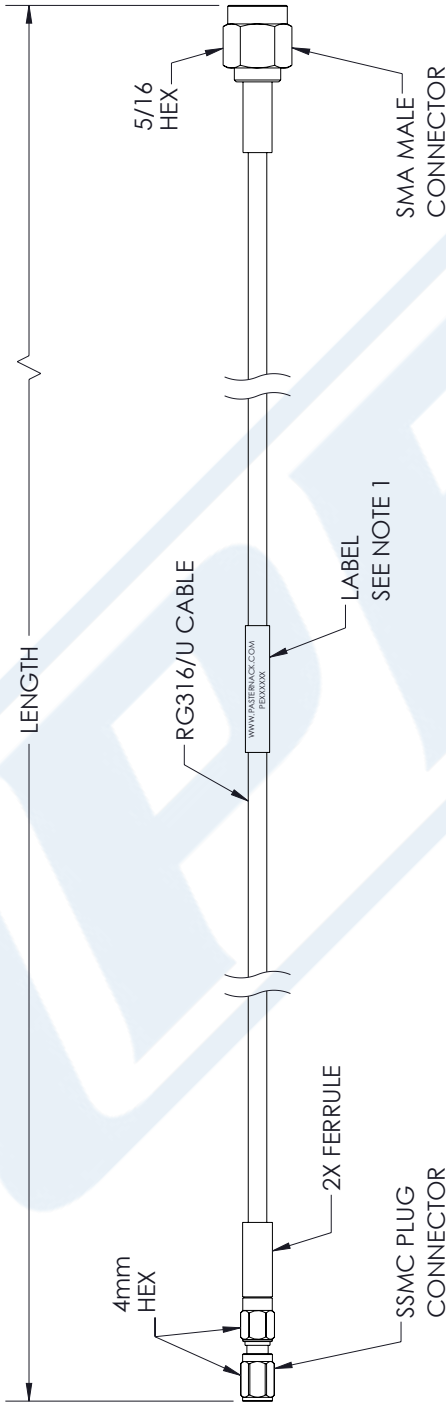
URL: <https://www.pasternack.com/ssmc-plug-to-sma-male-cable-using-rg316-pe3c6306-p.aspx>

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. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

PE3C6306 CAD Drawing

SSMC Plug to SMA Male Cable Using RG316 Coax


| REVISION | | | |
|----------|------|-----------------|-------------|
| ZONE | REV. | DESCRIPTION | DATE |
| | A | INITIAL RELEASE | 01/25/2023 |
| | | | CHANGED BY |
| | | | BPUCHASKI |
| | | | APPROVED BY |
| | | | AGANWANI |



NOTES:


- CABLE ASSEMBLY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS , ONE LABEL APPROXIMATELY CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6 INCHES FROM EACH CONNECTOR.
- CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF INFINITE ELECTRONICS, INC. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF INFINITE ELECTRONICS, INC. IS PROHIBITED. 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.



PASTERNAK
an INFINITI® brand

Website: www.Pasternack.com
Phone: 1.866.727.8376 | 1.949.261.1920



INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE

SHEET: 1 OF 1

DESCRIPTION: SSMC Plug to SMA Male Cable Using RG316 Coax

| | | | | |
|------|-----------|-----------|----------|-----|
| SIZE | CAGE CODE | DRAWN BY | ITEM NO. | REV |
| A | 53919 | BPUCHASKI | PE3C6306 | A |