



## **RF Cable Assemblies Technical Data Sheet**

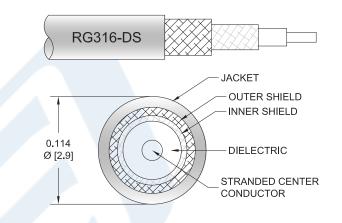
## PE3C6914-12

## **Configuration**

Connector 1: BNC FemaleConnector 2: SMA MaleCable Type: RG316-DS

#### **Features**

- Max Frequency 3 GHz
- 70% Phase Velocity
- · Double Shielded
- FEP Jacket



## **Applications**

General Purpose

· Laboratory Use

#### Description

Pasternack's PE3C6914-12 BNC female to SMA male 12 inch cable using RG316-DS 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 BNC to SMA cable assembly has a female to male gender configuration with 50 ohm flexible RG316-DS coax. The PE3C6914-12 BNC female to SMA male cable assembly operates to 3 GHz. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness.

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: BNC Female to SMA Male Cable 12 Inch Length Using RG316-DS Coax PE3C6914-12

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 Phone: (868) 727-8376 or (949) 261-1920 • Fax: (949) 261-7451

Sales@Pastemack.com • Techsupport@Pastemack.com





## **RF Cable Assemblies Technical Data Sheet**

## PE3C6914-12

#### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
VSWR		/ J.	1.4:1	
Velocity of Propagation		70		%
Capacitance		29.4 [96.46]		pF/ft [pF/m]
Operating Voltage (AC)			335	Vrms

## Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	3	GHz
Insertion Loss (Typ.)	0.31	0.34	0.38	0.5	0.74	dB

**Electrical Specification Notes:** 

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

## **Mechanical Specifications**

## **Cable Assembly**

Length\* 12 in [304.8 mm]
Diameter 0.453 in [11.51 mm]

#### Cable

Cable Type RG316-DS Impedance 50 Ohms Inner Conductor Type Stranded

Inner Conductor Material and Plating Copper Clad Steel, Silver

Dielectric Type PTFE
Number of Shields 2

Shield Layer 1 Silver Plated Copper Braid Silver Plated Copper Braid Silver Plated Copper Braid

Jacket Material FEP, Tan

Jacket Diameter 0.114 in [2.9 mm]

Repeated Minimum Bend Radius 0.591 in [15.01 mm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: BNC Female to SMA Male Cable 12 Inch Length Using RG316-DS Coax PE3C6914-12

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 Phone: (868) 727-8376 or (949) 261-1920 • Fax: (949) 261-7451

Sales@Pasternack.com . Techsupport@Pasternack.com





## **RF Cable Assemblies Technical Data Sheet**

## PE3C6914-12

#### **Connectors**

Description	Connector 1	Connector 2	
Туре	BNC Female	SMA Male	
Specification	MIL-STD-348A	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms	
Contact Material and Plating	Brass, Gold	Brass, Gold	
Contact Plating Specification	30 μin minimum	30 μin minimum	
Dielectric Type	PTFE	PTFE	
Body Material and Plating	Brass, Nickel	Brass, Nickel	
Body Plating Specification	100 μin minimum	100 μin minimum	
Coupling Nut Material and Plating		Brass, Nickel	
Coupling Nut Plating Specification		100 μin minimum	
Hex Size		5/16 inch	
Torque		3 in-lbs [0.34 Nm]	

## **Environmental Specifications**

Temperature

Operating Range -55 to +165 deg C

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: BNC Female to SMA Male Cable 12 Inch Length Using RG316-DS Coax PE3C6914-12

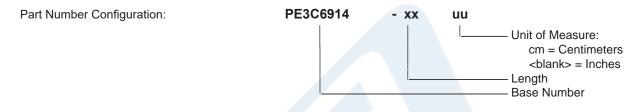




## **RF Cable Assemblies Technical Data Sheet**

## PE3C6914-12

#### **How to Order**



Example: PE3C6914-12 = 12 inches long cable PE3C6914-100cm = 100 cm long cable

BNC Female to SMA Male Cable 12 Inch Length Using RG316-DS 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: BNC Female to SMA Male Cable 12 Inch Length Using RG316-DS Coax PE3C6914-12

URL: https://www.pasternack.com/bnc-female-sma-male-rg316-ds-cable-assembly-pe3c6914-12-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.

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 Phone: (868) 727-8376 or (949) 261-1920 • Fax: (949) 261-7451

PE3C6914-12 CAD Drawing
BNC Female to SMA Male Cable 12 Inch Length Using RG316-DS Coax

