

SMC Plug Right Angle to BNC Male Cable Using RG316 Coax



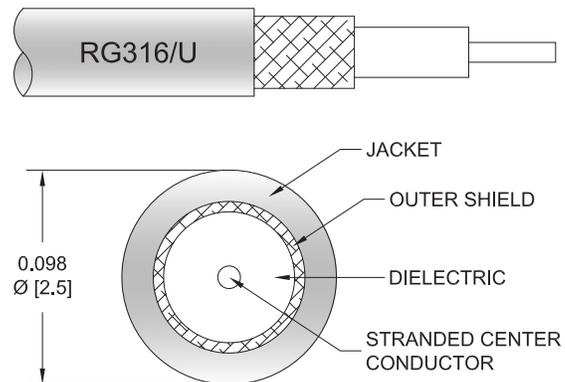
PE3C3410

Configuration

- Connector 1: SMC Plug Right Angle
- Connector 2: BNC Male
- Cable Type: RG316
- Coax Flex Type: Flexible

Features

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



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C3410 SMC plug right angle to BNC 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 SMC to BNC cable assembly has a plug to male gender configuration with 50 ohm flexible RG316 coax. The PE3C3410 SMC plug to BNC male cable assembly operates to 3 GHz. The right angle SMC interface on the RG316 cable allows for easier connections in tight spaces.

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		3	GHz
VSWR		1.4:1		
Velocity of Propagation		69		%
Capacitance		32 [104.99]		pF/ft [pF/m]
Operating Voltage (AC)			900	Vrms
Jacket Spark			2,000	Vrms

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency		100	250	500	1000	
PE3C3410	Custom Lengths Available	Insertion Loss (Typ.)	0.08	0.13	0.194	0.29	0.535	dB/ft	
			0.27	0.42	0.64	0.96	1.76	dB/m	
PE3C3410-12	12 inch	Insertion Loss (Typ.)	0.39	0.43	0.5	0.59	0.84	dB	0.05
PE3C3410-24	24 inch	Insertion Loss (Typ.)	0.47	0.56	0.69	0.88	1.37	dB	0.061
PE3C3410-36	36 inch	Insertion Loss (Typ.)	0.55	0.69	0.89	1.17	1.91	dB	0.071
PE3C3410-48	48 inch	Insertion Loss (Typ.)	0.63	0.82	1.08	1.46	2.44	dB	0.081
PE3C3410-72	72 inch	Insertion Loss (Typ.)	0.8	1.07	1.47	2.04	3.51	dB	0.101

The insertion loss data for the base model does not include loss due to the connectors. Each length includes insertion loss due to the connectors.

Loss due to Connector 1:	0.2 dB
Loss due to Connector 2:	0.1 dB
Base Weight:	0.05 pounds
Additional Weight per Inch:	0.00084 pounds

Mechanical Specifications

Cable Assembly

Weight 0.05 lbs [22.68 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]

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Connectors

Description	Connector 1	Connector 2
Type	SMC Plug Right Angle	BNC Male
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Straight
Contact Material and Plating	Beryllium Copper, Gold	Brass, Gold
Contact Plating Specification	30 µin minimum	50 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	Brass, Nickel
Coupling Nut Plating Specification	100 µin minimum	100 µin minimum
Hex Size	1/4 inch	
Torque	3 in-lbs 0.34 Nm	
Seal Gasket Material		Silicone Rubber

Environmental Specifications

Operating Range Temperature -55 to +165 deg C

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

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PE3C3410

Typical Performance Data

How to Order

Part Number Configuration:

PE3C3410

- **xx**

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Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE3C3410-12 = 12 inches long cable
PE3C3410-100cm = 100 cm long cable

SMC Plug Right Angle to BNC 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.

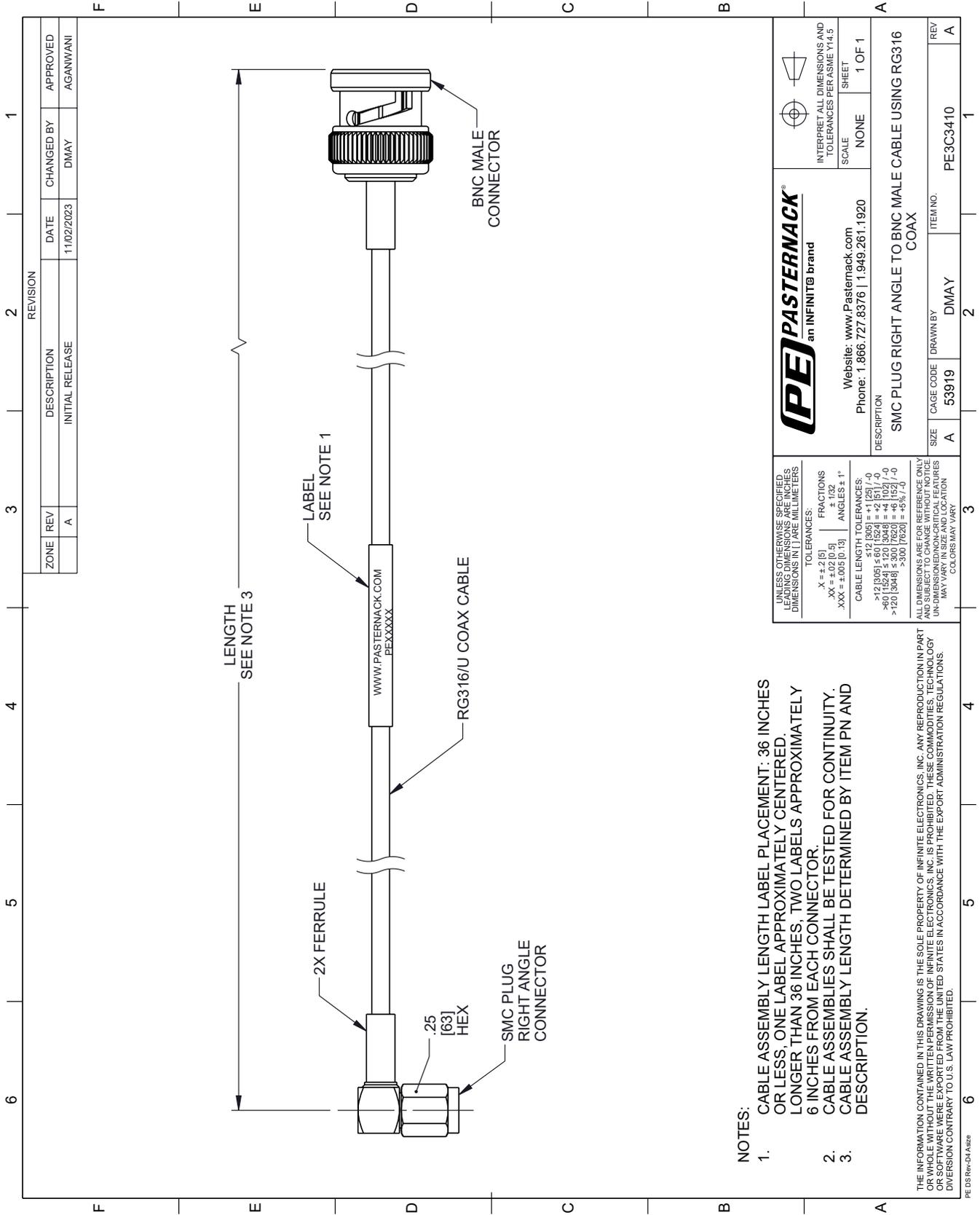
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMC Plug Right Angle to BNC Male Cable Using RG316 Coax PE3C3410](#)

URL: <https://www.pasternack.com/smc-plug-right-angle-to-bnc-male-cable-using-rg316-pe3c3410-p.aspx>

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

PE3C3410 CAD Drawing

SMC Plug Right Angle to BNC Male Cable Using RG316 Coax



ZONE		REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
A		A	INITIAL RELEASE	11/02/2023	DMAY	AGANWANI

 PASTERNAK an INFINIT® brand		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE NONE SHEET 1 OF 1
Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920		
DESCRIPTION SMC PLUG RIGHT ANGLE TO BNC MALE CABLE USING RG316 COAX		
SIZE	CAGE CODE	ITEM NO.
A	53919	PE3C3410

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

TOLERANCES:
 .X = ±.2 [5] | FRACTIONS ±.132
 .XX = ±.02 [0.5] | ANGLES ± 1°
 .XXX = ±.005 [0.13]

CABLE LENGTH TOLERANCES:
 ≤12 [305] = +.1 [25] / -0
 >.12 [305] ≤.60 [1524] = +.2 [51] / -0
 >.60 [1524] ≤.300 [7620] = +.4 [102] / -0
 >.300 [7620] = +.5% / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE. UN-DIMENSIONED NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. CALCULATIONS MAY VARY.

- 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.
 - CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.

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