

## BNC Male to SMB Plug Cable Using RG316-DS Coax with HeatShrink



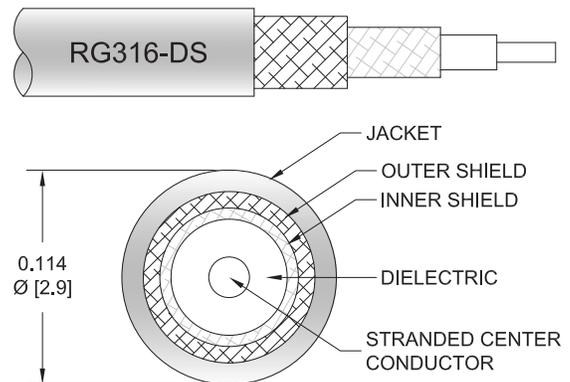
### PE3C3351/HS

#### Configuration

- Connector 1: BNC Male
- Connector 2: SMB Plug
- Cable Type: RG316-DS
- Coax Flex Type: Flexible

#### Features

- Max Frequency 3 GHz
- Shielding Effectivity > 85 dB
- 69.5% Phase Velocity
- Double Shielded
- FEP Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3C3351/HS BNC male to SMB plug 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 SMB cable assembly has a male to plug gender configuration with 50 ohm flexible RG316-DS coax. The PE3C3351/HS BNC male to SMB plug cable assembly operates to 3 GHz. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness of better than 85 dB.

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		69.5		%
RF Shielding	85			dB
Capacitance		28.96 [95.01]		pF/ft [pF/m]
DC Resistance Inner Conductor		83.82 [275]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		5.33 [17.49]		Ohms/1000ft [Ohms/Km]
Operating Voltage (AC)			335	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	
PE3C3351/HS	Custom Lengths Available	Insertion Loss (Typ.)	0.08	0.13	0.19	0.29	0.536	dB/ft	
			0.28	0.43	0.64	0.96	1.76	dB/m	
PE3C3351/HS-6	6 inch	Insertion Loss (Typ.)	0.25	0.27	0.3	0.35	0.47	dB	0.109
PE3C3351/HS-12	12 inch	Insertion Loss (Typ.)	0.29	0.33	0.4	0.49	0.74	dB	0.116
PE3C3351/HS-24	24 inch	Insertion Loss (Typ.)	0.37	0.46	0.59	0.78	1.28	dB	0.131
PE3C3351/HS-36	36 inch	Insertion Loss (Typ.)	0.45	0.59	0.79	1.07	1.81	dB	0.145
PE3C3351/HS-48	48 inch	Insertion Loss (Typ.)	0.54	0.72	0.98	1.36	2.35	dB	0.159

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:	0.1 dB
Loss due to Connector 2:	0.1 dB
Base Weight:	0.116 pounds
Additional Weight per Inch:	0.00117 pounds

### Mechanical Specifications

#### Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.102 lbs [46.27 g]

#### 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
Shield Layer 2	Silver Plated Copper Braid
Jacket Material	FEP, Tan
Jacket Diameter	0.114 in [2.9 mm]
One Time Minimum Bend Radius	0.59 in [14.99 mm]
Repeated Minimum Bend Radius	1.57 in [39.88 mm]

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#### Connectors

Description	Connector 1	Connector 2
Type	BNC Male	SMB Plug
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold
Contact Plating Specification	50µ in. minimum	30µ in. minimum
Dielectric Type	Teflon	Teflon
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100µ in. minimum	100µ in. minimum
Coupling Nut Material and Plating	Brass, Nickel	
Coupling Nut Plating Specification	100µ in. minimum	

#### 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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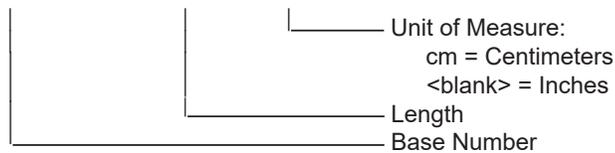
### PE3C3351/HS

#### Typical Performance Data

#### How to Order

Part Number Configuration:

**PE3C3351/HS - xx uu**



Example: PE3C3351/HS-12 = 12 inches long cable  
PE3C3351/HS-100cm = 100 cm long cable

BNC Male to SMB Plug Cable Using RG316-DS Coax with HeatShrink 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.

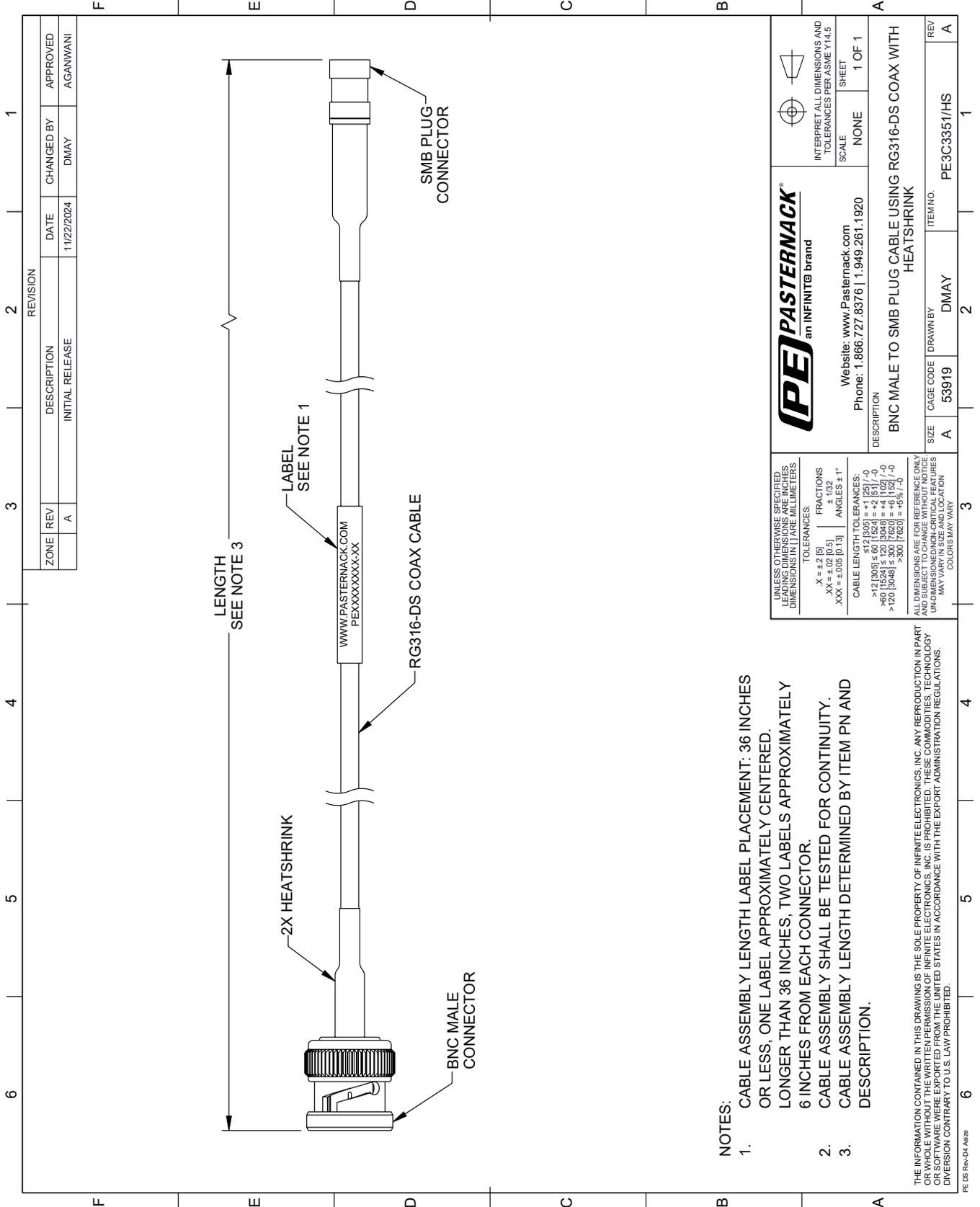
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [BNC Male to SMB Plug Cable Using RG316-DS Coax with HeatShrink PE3C3351/HS](#)

URL: <https://www.pasternack.com/bnc-male-to-smb-plug-cable-using-rg316-ds-with-heatshrink-pe3c3351-hs-p.aspx>

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# PE3C3351/HS CAD Drawing

BNC Male to SMB Plug Cable Using RG316-DS Coax with HeatShrink



REVISION		DATE	CHANGED BY	APPROVED
ZONE	REV	11/22/2024	DMAY	AGANWANI
	A			
DESCRIPTION				
INITIAL RELEASE				

**PE PASTERNAK**  
an INFINITE brand

Website: [www.Pasternack.com](http://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: BNC MALE TO SMB PLUG CABLE USING RG316-DS COAX WITH HEATSHRINK

SIZE: A  
CAGE CODE: 53919  
DRAWN BY: DMAY  
ITEM NO.: PE3C3351/HS

REV: A

UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES AND TRAILING DIMENSIONS ARE IN MILLIMETERS

TOLERANCES:  
 .X = ±.2 (5)  
 .XX = ±.02 (0.5)  
 .XXX = ±.005 (0.13)  
 FRACTIONS ± 1/32  
 ANGLES ± 1°

CABLE LENGTH TOLERANCES:  
 >12 (305) ≤ 60 (1524) = ±.1 (25) / -0  
 >60 (1524) ≤ 120 (3048) = ±.4 (102) / -0  
 >120 (3048) ≤ 300 (7620) = ±.6 (152) / -0  
 >300 (7620) = ±.6 (152) / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES AND TRAILING DIMENSIONS ARE IN MILLIMETERS. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES AND TRAILING DIMENSIONS ARE IN MILLIMETERS. COLORS 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 ASSEMBLY SHALL BE TESTED FOR CONTINUITY.
  - CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.

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