

1.0/2.3 Plug to BNC Male Cable Using RG316-DS Coax with HeatShrink



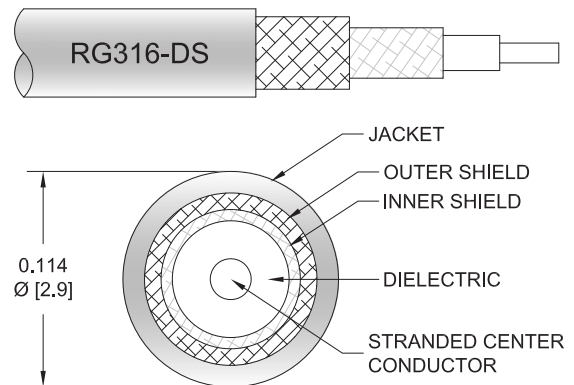
PE3C3537/HS

Configuration

- Connector 1: 1.0/2.3 Plug
- Connector 2: BNC Male
- Cable Type: RG316-DS
- Coax Flex Type: Flexible

Features

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



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C3537/HS 1.0/2.3 plug to BNC male 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 1.0/2.3 to BNC cable assembly has a plug to male gender configuration with 50 ohm flexible RG316-DS coax. The PE3C3537/HS 1.0/2.3 plug to BNC 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.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
VSWR		1.4:1		
Velocity of Propagation		70		%
Capacitance		29.4 [96.46]		pF/ft [pF/m]

Specifications by Frequency

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PE3C3537/HS

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency		100	250	500	1000	
PE3C3537/HS	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	
PE3C3537/HS-6	6 inch	Insertion Loss (Typ.)	0.25	0.27	0.3	0.35	0.47	dB	0.047
PE3C3537/HS-12	12 inch	Insertion Loss (Typ.)	0.29	0.33	0.4	0.49	0.74	dB	0.054
PE3C3537/HS-24	24 inch	Insertion Loss (Typ.)	0.37	0.46	0.59	0.78	1.27	dB	0.069
PE3C3537/HS-36	36 inch	Insertion Loss (Typ.)	0.45	0.59	0.79	1.07	1.81	dB	0.083
PE3C3537/HS-48	48 inch	Insertion Loss (Typ.)	0.53	0.72	0.98	1.36	2.34	dB	0.097

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:	0.054 pounds
Additional Weight per Inch:	0.00117 pounds

Mechanical Specifications

Cable Assembly

Weight 0.054 lbs [24.49 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]

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Connectors

Description	Connector 1	Connector 2
Type	1.0/2.3 Plug	BNC Male
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	30 µin minimum	50 µin minimum
Dielectric Type	Teflon	Teflon
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

Environmental Specifications

Operating Range Temperature -40 to +155 deg C

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

Plotted and Other Data

Notes:

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PE3C3537/HS

Typical Performance Data

How to Order

Part Number Configuration:

PE3C3537/HS - xx uu



Example: PE3C3537/HS-12 = 12 inches long cable
PE3C3537/HS-100cm = 100 cm long cable

1.0/2.3 Plug to BNC Male 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.

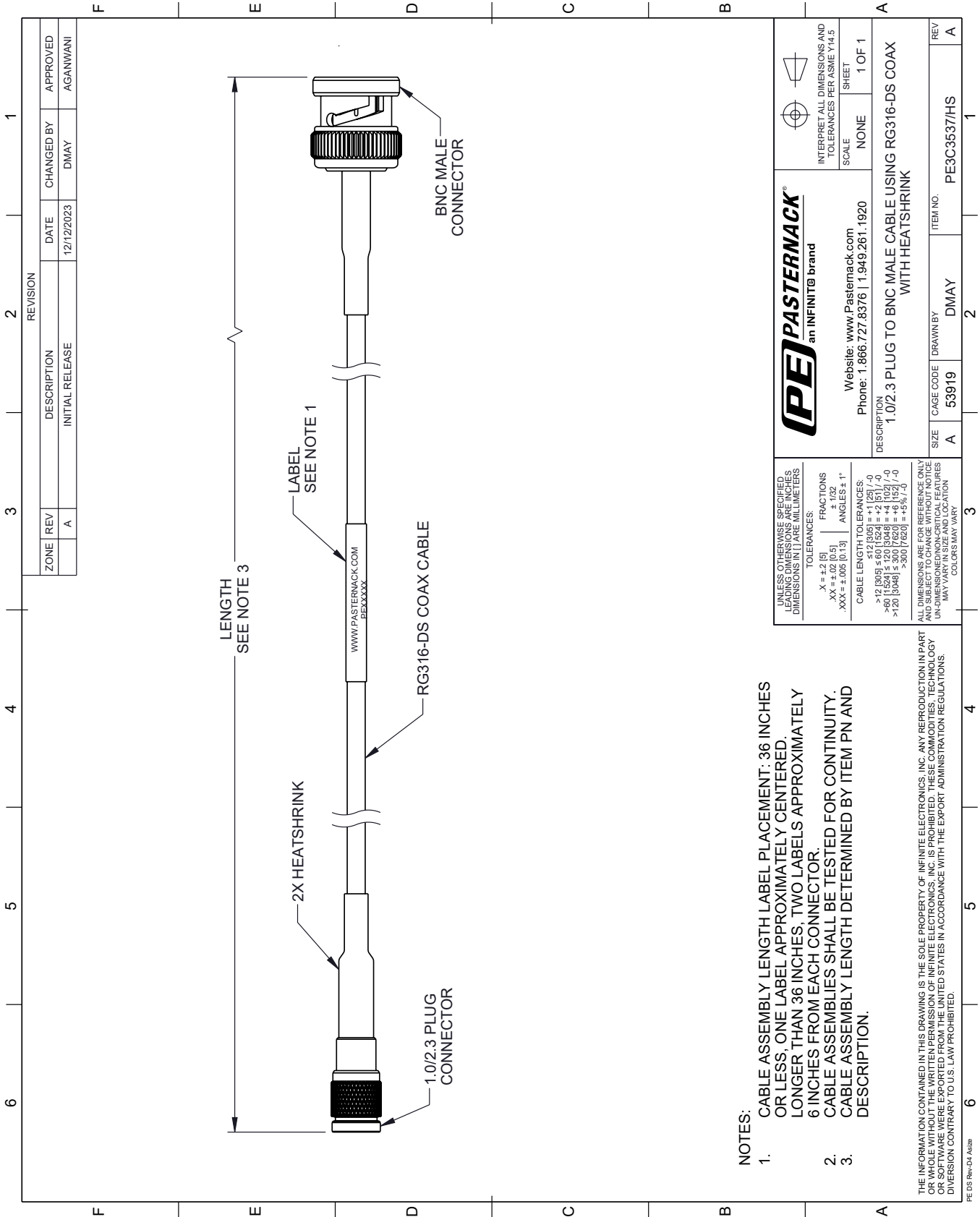
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [1.0/2.3 Plug to BNC Male Cable Using RG316-DS Coax with HeatShrink PE3C3537/HS](https://www.pasternack.com/1.0-2.3-plug-to-bnc-male-cable-using-rg316-ds-with-heatshrink-pe3c3537-hs)

URL: <https://www.pasternack.com/1.0-2.3-plug-to-bnc-male-cable-using-rg316-ds-with-heatshrink-pe3c3537-hs-p.aspx>

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PE3C3537/HS CAD Drawing

1.0/2.3 Plug to BNC Male Cable Using RG316-DS Coax with HeatShrink



REVISION		DATE	CHANGED BY	APPROVED
ZONE	REV			
	A	12/12/2023	DMAY	AGANWANI
DESCRIPTION				
INITIAL RELEASE				

 PASTERNAK an INFINITE 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 1.0/2.3 PLUG TO BNC MALE CABLE USING RG316-DS COAX WITH HEATSHRINK			
SIZE	A	CAGE CODE	DMAY
ITEM NO.	53919		PE3C3537/HS
REV	A		A

UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES, DIMENSIONS IN [] 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 [15.24] = ±.2 [5.1] / -0
 >.60 [1524] ≤ 120 [3048] = ±.4 [10.2] / -0
 >120 [3048] ≤ 300 [7620] = ±.5% / -0
 >300 [7620] = ±.5% / -0

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- NOTES:
- CABLE ASSEMBLY LABEL LENGTH: .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.