



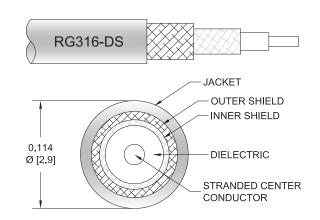
#### PE3C10313/HS

#### Configuration

Connector 1: 10-32 Male
Connector 2: SMA Female
Cable Type: RG316-DS
Coax Flex Type: Flexible

#### **Features**

- · Max Frequency 2 GHz
- Shielding Effectivity > 85 dB
- · 69.5% Phase Velocity
- · Double Shielded
- FEP Jacket



#### **Applications**

· General Purpose

· Laboratory Use

#### **Description**

Pasternack's PE3C10313/HS 10-32 male to SMA female 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 10-32 to SMA cable assembly has a male to female gender configuration with 50 ohm flexible RG316-DS coax. The PE3C10313/HS 10-32 male to SMA female cable assembly operates to 2 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		2	GHz
VSWR			1.5:1	
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]

#### Specifications by Frequency



# 1

#### PE3C10313/HS

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)	
		Frequency	50	100	250	500	2000	MHz		
PE3C10313/HS	Custom Lengths	Insertion Loss (Typ.)	0.04	0.08	0.13	0.19	0.394	dB/ft		
FE3C10313/H3	Available		0.14	0.28	0.43	0.64	1.3	dB/m		
PE3C10313/HS-6	6 inch	Insertion Loss (Typ.)	0.23	0.25	0.27	0.3	0.4	dB	0.026	
PE3C10313/HS-12	12 inch	Insertion Loss (Typ.)	0.25	0.29	0.33	0.4	0.6	dB	0.033	
PE3C10313/HS-24	24 inch	Insertion Loss (Typ.)	0.29	0.37	0.46	0.59	0.99	dB	0.048	
PE3C10313/HS-36	36 inch	Insertion Loss (Typ.)	0.33	0.45	0.59	0.79	1.39	dB	0.062	
PE3C10313/HS-48	48 inch	Insertion Loss (Typ.)	0.37	0.54	0.72	0.98	1.78	dB	0.076	

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:

O.1 dB

Loss due to Connector 2:

Base Weight:

O.033 pounds

Additional Weight per Inch:

0.00117 pounds

#### **Mechanical Specifications**

#### Cable Assembly

 Width/Diameter
 0.5 in [12.7 mm]

 Weight
 0.019 lbs [8.62 g]

#### Cable

Cable TypeRG316-DSImpedance50 OhmsInner Conductor TypeStranded

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 Diameter0.114 in [2.9 mm]One Time Minimum Bend Radius0.59 in [14.99 mm]Repeated Minimum Bend Radius1.57 in [39.88 mm]





### PE3C10313/HS

#### **Connectors**

Description	Connector 1	Connector 2
Туре	10-32 Male	SMA Female
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Brass, Gold	
Contact Plating Specification	30μ in. minimum	
Dielectric Type	Teflon	
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100μ in. minimum	
Coupling Nut Material and Plating	Brass, Nickel	
Coupling Nut Plating Specification	100μ in. minimum	
Hex Size	1/4 in.	
Torque	3 in-lbs 0.34 Nm	

#### **Environmental Specifications**

Operating Range Temperature

-55 to +125 deg C

Compliance Certifications (see product page for current document)

#### **Plotted and Other Data**

Notes:





#### PE3C10313/HS

#### **Typical Performance Data**

#### **How to Order**

Part Number Configuration:

PE3C10313/HS - xx uu

Unit of Measure:
cm = Centimeters
<br/>
<br/>
<br/>
<br/>
Length
Base Number

Example: PE3C10313/HS-12 = 12 inches long cable

PE3C10313/HS-100cm = 100 cm long cable

10-32 Male to SMA Female 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: 10-32 Male to SMA Female Cable Using RG316-DS Coax with HeatShrink PE3C10313/HS

URL: https://www.pasternack.com/10-32-male-to-sma-female-cable-using-rg316-ds-with-heatshrink-pe3c10313-hs-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 impliment 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.

