



SMB Plug to SMB Plug Cable Using RG316-DS Coax

## RF Cable Assemblies - PE33704

### Configuration

- Connector 1: SMB Plug
- Connector 2: SMB Plug
- Cable Type: RG316-DS

### 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]
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
VSWR (Max.)	1.4:1	1.4:1	1.4:1	1.4:1	1.4:1	
Return Loss (Max.)	15.56	15.563	15.563	15.563	15.563	dB

### Mechanical Specifications

#### Cable Assembly

Diameter	0.256 in [6.5 mm]
Weight	0.028 lbs [12.7 g]
One Time Minimum Bend Radius	0.59 in [14.99 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
Shield Layer 2	Silver Plated Copper Braid

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMB Plug to SMB Plug Cable Using RG316-DS Coax PE33704](#)



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Jacket Material FEP, Tan  
Jacket Diameter 0.114 in [2.9 mm]

**Connectors**

Description	Connector 1	Connector 2
Type	SMB Plug	SMB Plug
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Connection Method	Standard	Standard
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Specification	30µ 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

**Environmental Specifications**

**Compliance Certifications** (visit [www.Pasternack.com](http://www.Pasternack.com) for current document)

For RoHS Compliant version, use PE33704LF. Contact Pasternack if product cannot be found.  
REACH Compliant 06/18/2012

**Plotted and Other Data**

Notes:

- Values at 25°C, sea level.

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# RF Cable Assemblies - PE33704

### How to Order

Part Number Configuration:

**PE33704**

- **xx**

**uu**

Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE33704-12 = 12 inches long cable  
PE33704-100cm = 100 cm long cable

SMB Plug to SMB Plug Cable 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% availability and are part of the broadest selection in the industry.

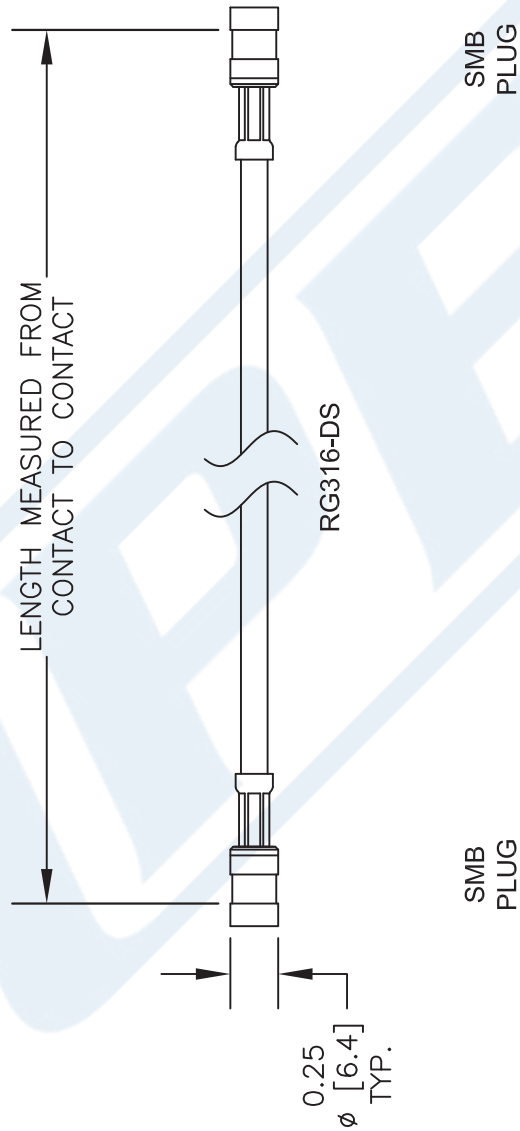
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMB Plug to SMB Plug Cable Using RG316-DS Coax PE33704](#)

URL: <http://www.pasternack.com/smb-plug-smb-plug-rg316-ds-cable-assembly-pe33704-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.

# PE33704 CAD Drawing

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- NOTES:
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
  2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
  3. DIMENSIONS ARE IN INCHES [mm].
  4. LENGTH TOLERANCE IS  $\pm 1.5\%$  OR  $3/8"$ , WHICHEVER IS GREATER.

DWG TITLE  
**PE33704**

FSCM NO. 53919

CAD FILE 082515

SCALE N/A

SIZE A

2233

**(PE) PASTERNAK®**  
 THE ENGINEER'S RF SOURCE  
 Pasternack Enterprises, Inc.  
 P.O. Box 16759 | Irvine | CA | 92623

Phone: (949) 261-1920 | Fax: (949) 261-7451

Website: www.pasternack.com | E-Mail: sales@pasternack.com