



## **RF Cable Assemblies Technical Data Sheet**

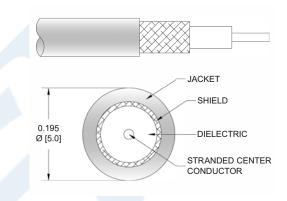
PE3172-36

# Configuration

Connector 1: SMA MaleConnector 2: SMB PlugCable Type: RG58

#### **Features**

- Max Frequency 4 GHz
- 65.9% Phase Velocity
- PVC (NC) Jacket



## **Applications**

· General Purpose

· Laboratory Use

### Description

Pasternack's PE3172-36 SMA male to SMB plug 36 inch cable using RG58 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 SMA to SMB cable assembly has a male to plug gender configuration with 50 ohm flexible RG58 coax. The PE3172-36 SMA male to SMB plug cable assembly operates to 4 GHz.

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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SMA Male to SMB Plug Cable 36 Inch Length Using RG58 Coax PE3172-36

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451





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## **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		4	GHz
VSWR		/ J. S.	1.4:1	
Velocity of Propagation		65.9		%
Capacitance		30.8 [101.05]		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	4	GHz	
Insertion Loss (Typ.)	0.347	0.422	0.548	0.8	1.7	dB	
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

 Length\*
 36 in [914.4 mm]

 Diameter
 0.315 in [8 mm]

 Weight
 0.11 lbs [49.9 g]

Cable

Cable Type RG58 Impedance 50 Ohms Inner Conductor Type Stranded Inner Conductor Material and Plating Copper, Tin PΕ Dielectric Type Number of Shields **Tinned Copper Braid** Shield Layer 1 **Jacket Material** PVC (NC), Black Jacket Diameter 0.195 in [4.95 mm]

One Time Minimum Bend Radius 0.98 in [24.89 mm]
Repeated Minimum Bend Radius 1.96 in [49.78 mm]

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#### **Connectors**

Description	Connector 1	Connector 2 SMB Plug	
Туре	SMA Male		
Specification	MIL-STD-348A	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms	
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold	
Contact Plating Specification	50 μin minimum	30 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		
Coupling Nut Plating Specification	100 μin minimum		
Hex Size	5/16 inch		
Torque	3 in-lbs [0.34 Nm]		

## **Environmental Specifications**

**Temperature**Operating Range

-40 to +80 deg C

Compliance Certifications (see product page for current document)

## **Plotted and Other Data**

Notes:

• Values at 25°C, sea level.

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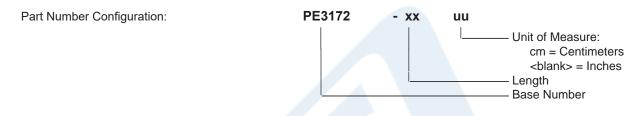




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#### **How to Order**



Example: PE3172-12 = 12 inches long cable PE3172-100cm = 100 cm long cable

SMA Male to SMB Plug Cable 36 Inch Length Using RG58 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.

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URL: https://www.pasternack.com/sma-male-smb-plug-rg58cu-cable-assembly-pe3172-36-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.

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**PE3172-36 CAD Drawing**SMA Male to SMB Plug Cable 36 Inch Length Using RG58 Coax

