



RF Cable Assemblies Technical Data Sheet

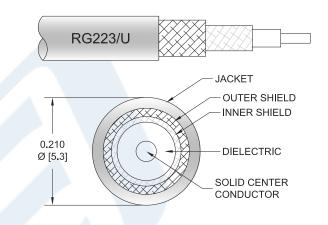
PE33254/HS-100CM

Configuration

Connector 1: SMA FemaleConnector 2: SMA FemaleCable Type: RG223

Features

- Max Frequency 12.4 GHz
- 66% Phase Velocity
- · Double Shielded
- PVC Jacket



Applications

· General Purpose

· Laboratory Use

Description

Pasternack's PE33254/HS-100CM SMA female to SMA female 100 cm cable using RG223 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 SMA cable assembly has a female to female gender configuration with 50 ohm flexible RG223 coax. The PE33254/HS-100CM SMA female to SMA female cable assembly operates to 12.4 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SMA Female to SMA Female Cable Using RG223 Coax with HeatShrink in 100CM PE33254/HS-100CM

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		12.4	GHz
VSWR		pills.	1.5:1	
Velocity of Propagation		66		%
Capacitance		30.8 [101.05]		pF/ft [pF/m]
Operating Voltage (AC)			500	Vrms

Specifications by Fre	pecifications by Frequency						
Description	F1	F2	F3	F4	F5	Units	
Frequency	0.5	1	2.5	5	12.4	GHz	
Insertion Loss (Typ.)	0.5	0.64	0.92	1.3	22	dB	

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1 dB per connector.

Mechanical Specifications

Cable Assembly

Length* 39.37 in [100 cm]
Weight 0.095 lbs [43.09 g]

Cable

Cable Type RG223
Impedance 50 Ohms
Inner Conductor Type Solid
Inner Conductor Material and Plating Copper, S

nner Conductor Material and Plating Copper, Silver ielectric Type PE

Dielectric Type

Number of Shields

2

Shield Layer 4

Shield Layer 1 Silver Plated Copper Braid
Shield Layer 2 Silver Plated Copper Braid
Jacket Material PVC, Black

Jacket MaterialPVC, BlackJacket Diameter0.209 in [5.31 mm]

One Time Minimum Bend Radius 0.21 in [5.33 mm]
Repeated Minimum Bend Radius 1 in [25.4 mm]

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Connectors

Connector 1	Connector 2	
SMA Female	SMA Female	
MIL-STD-348A	MIL-STD-348A	
50 Ohms	50 Ohms	
Beryllium Copper, Gold	Beryllium Copper, Gold	
50μ in. minimum.	50μ in. minimum.	
PTFE	PTFE	
Brass, Nickel	Brass, Nickel	
100μ in. minimum.	100μ in. minimum.	
	SMA Female MIL-STD-348A 50 Ohms Beryllium Copper, Gold 50µ in. minimum. PTFE Brass, Nickel	

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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How to Order

Part Number Configuration:

PE33254/HS - xx uu

Unit of Measure:
cm = Centimeters

Length
Base Number

Example: PE33254/HS-12 = 12 inches long cable PE33254/HS-100cm = 100 cm long cable

SMA Female to SMA Female Cable Using RG223 Coax with HeatShrink in 100CM 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-female-sma-female-rg223u-cable-assembly-pe33254-hs-100cm-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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PE33254/HS-100CM CAD Drawing
SMA Female to SMA Female Cable Using RG223 Coax with HeatShrink in 100CM

