

SMA Male Right Angle to SMA Female Cable Using RG316-DS Coax with HeatShrink



RF Cable Assemblies Technical Data Sheet

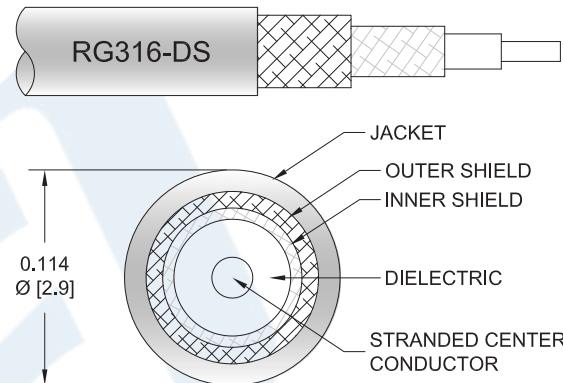
PE33603/HS

Configuration

- Connector 1: SMA Male Right Angle
- Connector 2: SMA Female
- 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 PE33603/HS SMA male right angle 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 SMA to SMA cable assembly has a male to female gender configuration with 50 ohm flexible RG316-DS coax. The PE33603/HS SMA male to SMA female cable assembly operates to 3 GHz. The right angle SMA interface on the RG316-DS cable allows for easier connections in tight spaces. 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 Male Right Angle to SMA Female Cable Using RG316-DS Coax with HeatShrink PE33603/HS](#)

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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

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	3	GHz
Insertion Loss (Typ.)	0.082	0.128	0.194	0.29	0.535	dB/ft
	0.27	0.42	0.64	0.95	1.76	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB for the female connector and 0.2 dB for the male connector.

Mechanical Specifications

Cable Assembly

Weight 0.039 lbs [17.69 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]

Repeated Minimum Bend Radius 0.591 in [15.01 mm]

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Connectors

Description	Connector 1	Connector 2
Type	SMA Male Right Angle	SMA Female
Specification	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	
Contact Plating Specification	50 μ in minimum	
Dielectric Type	PTFE	
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100 μ in minimum	
Coupling Nut Material and Plating	Brass, Nickel	
Coupling Nut Plating Specification	100 μ in minimum	
Hex Size	5/16 inch	
Torque	3 in-lbs [0.34 Nm]	

Environmental Specifications

Temperature

Operating Range

-55 to +165 deg C

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

Plotted and Other Data

Notes:

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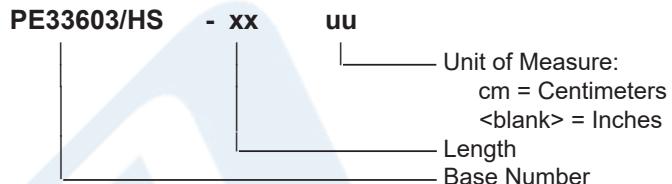


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PE33603/HS

How to Order

Part Number Configuration:



Example: PE33603/HS-12 = 12 inches long cable
PE33603/HS-100cm = 100 cm long cable

SMA Male Right Angle 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.

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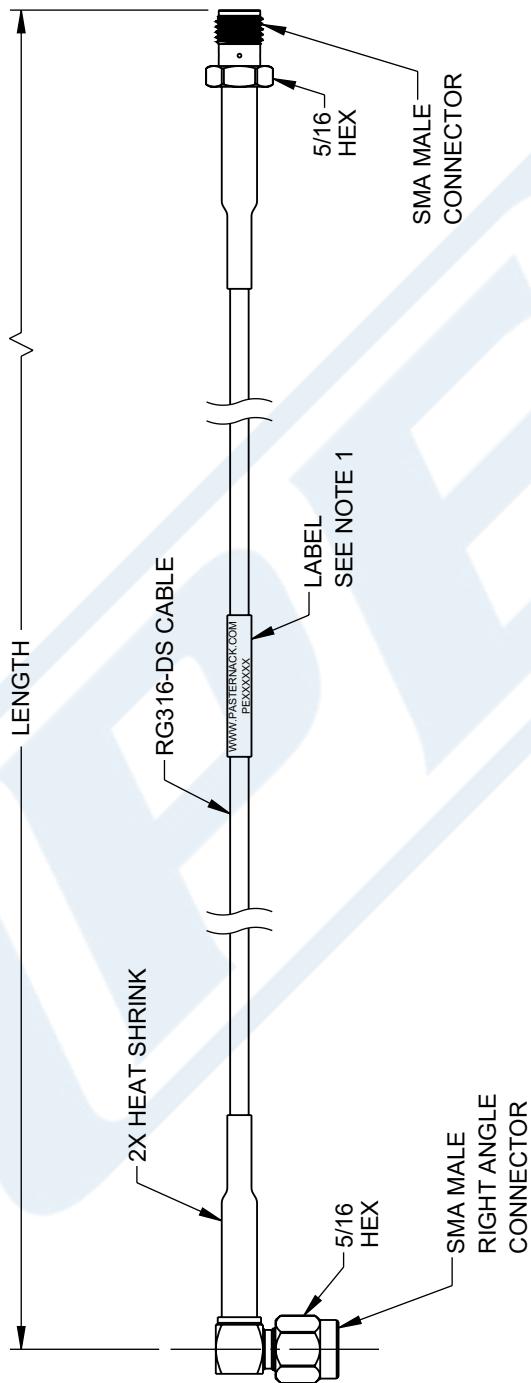
URL: <https://www.pasternack.com/sma-male-right-angle-to-sma-female-cable-using-rg316-ds-with-heatshrink-pe33603-hs-p.aspx>

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.

PE33603/HS CAD Drawing

SMA Male Right Angle to SMA Female Cable Using RG316-DS Coax with HeatShrink

ZONE	REV.	DESCRIPTION	DATE	CHANGED BY	APPROVED BY
A		INITIAL RELEASE	05/22/2023	BPUCHASKI	AGANWANI



NOTES:

CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
CABLE ASSEMBLIES SHALL BE TESTED FOR LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6 INCHES FROM EACH CONNECTOR.

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OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES: [5] FRACTIONS [5] ANGLES $\pm 1^\circ$ [5] LENGTH TOLERANCES		Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.920		DESCRIPTION SMA Male Right Angle to SMA Female Cable Using RG316-DS Coax with HeatShrink	
5 12 305	1/32 60 304.8	120 304.8	1.949 50	261.920 120 304.8	-0 -0 -0
\$12.305 = +1 [25] -0 5 = 60 [152] -0 120 [304.8] = +4 [102] -0 304.8 = +6 [152] -0 >300 [762] = +5% -0					
SIZE	CAGE CODE	DRAWN BY	ITEM NO.	PE33603/HS	REV
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