

N Male to SMA Male Cable Using 53 Ohm
RG55 Coax with HeatShrink



RF Cable Assemblies Technical Data Sheet

PE3W12956/HS

Configuration

- Connector 1: N Male
- Connector 2: SMA Male
- Cable Type: RG55

Features

- Max Frequency 3 GHz
- 66% Phase Velocity
- Double Shielded
- PE Jacket

Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W12956/HS type N male to SMA male cable using 53 ohm RG55 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 type N to SMA cable assembly has a male to male gender configuration with 53 ohm flexible RG55 coax. The PE3W12956/HS type N male to SMA male cable assembly operates to 3 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: [N Male to SMA Male Cable Using 53 Ohm RG55 Coax with HeatShrink PE3W12956/HS](#)

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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
VSWR			1.4:1	
Velocity of Propagation		66		%
Capacitance		28.8 [94.49]		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.)	0.043	0.063	0.097	0.16	0.32	dB/ft
	0.14	0.21	0.32	0.52	1.05	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

Mechanical Specifications

Cable Assembly

Weight 0.116 lbs [52.62 g]

Cable

Cable Type	RG55
Impedance	53 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper, Silver
Dielectric Type	PE
Number of Shields	2
Shield Layer 1	Tinned Copper Braid
Shield Layer 2	Tinned Copper Braid
Jacket Material	PE, Black
Jacket Diameter	0.202 in [5.13 mm]

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Connectors

Description	Connector 1	Connector 2
Type	N Male	SMA Male
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	30 μ in	50 μ in minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Nickel
Body Plating Specification		100 μ in minimum
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Nickel
Coupling Nut Plating Specification		100 μ in minimum
Hex Size	18 mm	5/16 inch
Torque	9 in-lbs [1.02 Nm]	3 in-lbs [0.34 Nm]

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

Plotted and Other Data

Notes:

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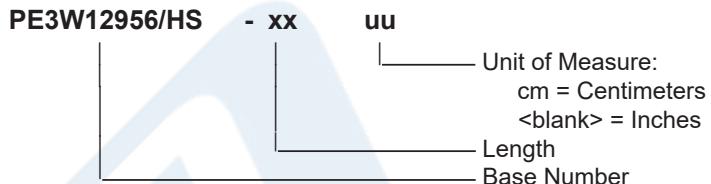


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How to Order

Part Number Configuration:



Example: PE3W12956/HS-12 = 12 inches long cable
PE3W12956/HS-100cm = 100 cm long cable

N Male to SMA Male Cable Using 53 Ohm RG55 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/n-male-to-sma-male-cable-using-rg55-with-heatshrink-pe3w12956-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.

PE3W12956/HS CAD Drawing

N Male to SMA Male Cable Using 53 Ohm RG55 Coax with HeatShrink

