

N Male to SMA Male Cable Using RG142 Coax

PE3W03293

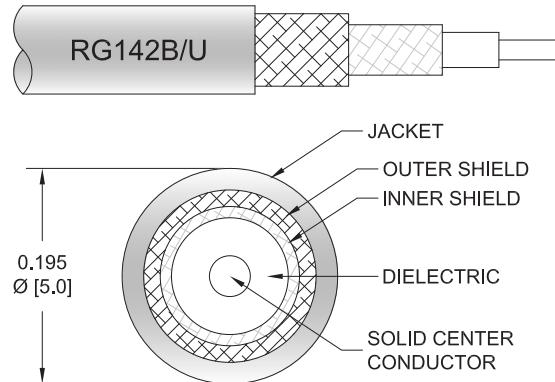


Configuration

- Connector 1: N Male
- Connector 2: SMA Male
- Cable Type: RG142
- Coax Flex Type: Flexible

Features

- Max Frequency 8 GHz
- 70% Phase Velocity
- Double Shielded
- FEP Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W03293 type N male to SMA male cable 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 50 ohm flexible RG142 coax. The PE3W03293 type N male to SMA male cable assembly operates to 8 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.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		8	GHz
VSWR			1.4:1	
Velocity of Propagation		70		%
Capacitance		29.4 [96.46]		pF/ft [pF/m]
Operating Voltage (AC)			500	Vrms

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	500	1000	2000	4000	8000	MHz	
PE3W03293	Custom Lengths Available	Insertion Loss (Typ.)	0.087	0.129	0.184	0.28	0.514	dB/ft	
			0.29	0.43	0.61	0.92	1.69	dB/m	
PE3W03293-12	12 inch	Insertion Loss (Typ.)	0.29	0.33	0.39	0.48	0.72	dB	0.125
PE3W03293-24	24 inch	Insertion Loss (Typ.)	0.38	0.46	0.57	0.76	1.23	dB	0.167
PE3W03293-36	36 inch	Insertion Loss (Typ.)	0.47	0.59	0.76	1.04	1.75	dB	0.209
PE3W03293-48	48 inch	Insertion Loss (Typ.)	0.55	0.72	0.94	1.32	2.26	dB	0.251
PE3W03293-60	60 inch	Insertion Loss (Typ.)	0.64	0.85	1.12	1.6	2.77	dB	0.293

The insertion loss data for the base model does not include loss due to the connectors. Each length includes insertion loss due to the connectors.

Loss due to Connector 1:	0.1 dB
Loss due to Connector 2:	0.1 dB
Base Weight:	0.125 pounds
Additional Weight per Inch:	0.0035 pounds

Mechanical Specifications

Cable Assembly

Weight	0.125 lbs [56.7 g]
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Cable

Cable Type	RG142
Impedance	50 Ohms
Inner Conductor Type	Solid
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	0.195 in [4.95 mm]
Repeated Minimum Bend Radius	1 in [25.4 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
Configuration	Straight	Straight
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

Environmental Specifications

Operating Range Temperature -55 to +165 deg C

Compliance Certifications

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

Plotted and Other Data

Notes:

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**PE3W03293****Typical Performance Data****How to Order**

Part Number Configuration:

PE3W03293 - xx uu

Unit of Measure:
cm = Centimeters
<blank> = Inches

Length

Base Number

Example: PE3W03293-12 = 12 inches long cable
PE3W03293-100cm = 100 cm long cable

N Male to SMA Male Cable Using RG142 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.

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 RG142 Coax PE3W03293](#)

URL: <https://www.pasternack.com/n-male-to-sma-male-cable-using-rg142-pe3w03293-p.aspx>

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PE3W03293 CAD Drawing

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