

N Female to N Female Cable Using RG214 Coax

PE3523

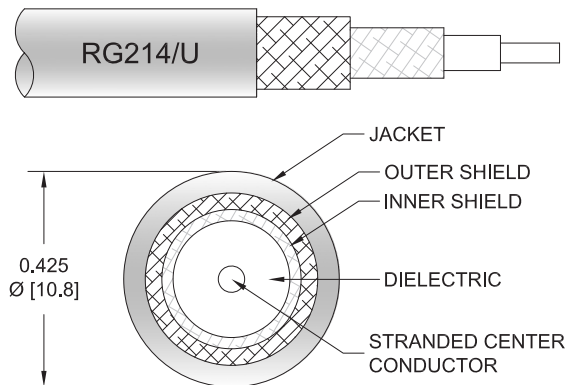


Configuration

- Connector 1: N Female
- Connector 2: N Female
- Cable Type: RG214
- Coax Flex Type: Flexible

Features

- Max Frequency 11 GHz
- 65.9% Phase Velocity
- Double Shielded
- PVC Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3523 type N female to type N female cable using RG214 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 type N cable assembly has a female to female gender configuration with 50 ohm flexible RG214 coax. The PE3523 type N female to type N female cable assembly operates to 11 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		11	GHz
VSWR			1.4:1	
Velocity of Propagation		65.9		%
Capacitance		30.8 [101.05]		pF/ft [pF/m]
Operating Voltage (AC)			1,000	Vrms

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	500	1000	2500	5000	11000	MHz	
PE3523	Custom Lengths Available	Insertion Loss (Typ.)	0.045	0.077	0.126	0.207	0.402	dB/ft	
			0.15	0.26	0.42	0.68	1.32	dB/m	
PE3523-12	12 inch	Insertion Loss (Typ.)	0.25	0.28	0.33	0.41	0.61	dB	0.296
PE3523-36	36 inch	Insertion Loss (Typ.)	0.34	0.44	0.58	0.83	1.41	dB	0.553
PE3523-48	48 inch	Insertion Loss (Typ.)	0.38	0.51	0.71	1.03	1.81	dB	0.681
PE3523-72	72 inch	Insertion Loss (Typ.)	0.47	0.67	0.96	1.45	2.62	dB	0.937
PE3523-108	108 inch	Insertion Loss (Typ.)	0.61	0.9	1.34	2.07	3.82	dB	1.321

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: 0.296 pounds
 Additional Weight per Inch: 0.01067 pounds

Mechanical Specifications

Cable Assembly

Weight 0.296 lbs [134.26 g]

Cable

Cable Type RG214
 Impedance 50 Ohms
 Inner Conductor Type Stranded
 Inner Conductor Material and Plating Copper, Silver
 Dielectric Type PE (LD)
 Number of Shields 2
 Shield Layer 1 Silver Plated Copper Braid
 Shield Layer 2 Silver Plated Copper Braid
 Jacket Material PVC, Black
 Jacket Diameter 0.425 in [10.8 mm]
 One Time Minimum Bend Radius 1.57 in [39.88 mm]

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Connectors

Description	Connector 1	Connector 2
Type	N Female	N Female
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Phosphor Bronze, Gold	Phosphor Bronze, Gold
Contact Plating Specification	30 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

Environmental Specifications

Operating Range Temperature -20 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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Typical Performance Data

How to Order

Part Number Configuration:

PE3523

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

Length

Base Number

Example: PE3523-12 = 12 inches long cable
PE3523-100cm = 100 cm long cable

N Female to N Female Cable Using RG214 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 Female to N Female Cable Using RG214 Coax PE3523](#)

URL: <https://www.pasternack.com/n-female-to-n-female-cable-using-rg214-pe3523-p.aspx>

The information contained within 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 Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

PE3523 CAD Drawing
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