

## N Female to N Male Cable Using RG214 Coax with HeatShrink



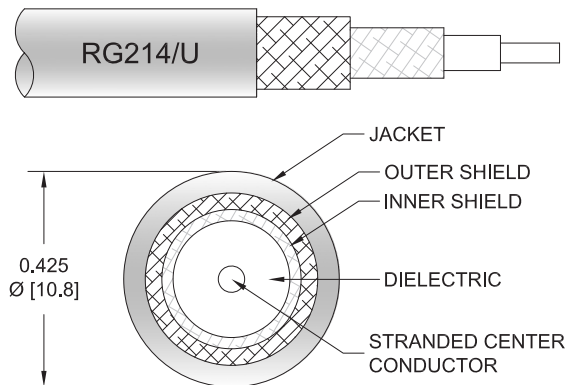
### PE3650/HS

#### Configuration

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

#### Features

- Max Frequency 11 GHz
- 66% Phase Velocity
- Double Shielded
- PVC Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3650/HS type N female to type N male 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 male gender configuration with 50 ohm flexible RG214 coax. The PE3650/HS type N female to type N male 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		66		%
Capacitance		30.8 [101.05]		pF/ft [pF/m]
Operating Voltage (AC)			1,000	Vrms

#### Specifications by Frequency

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### PE3650/HS

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	500	1000	2500	5000	11000	MHz	
PE3650/HS	Custom Lengths Available	Insertion Loss (Typ.)	0.046	0.077	0.126	0.207	0.402	dB/ft	
			0.16	0.26	0.42	0.68	1.32	dB/m	
PE3650/HS-12	12 inch	Insertion Loss (Typ.)	0.25	0.28	0.33	0.41	0.61	dB	0.284
PE3650/HS-36	36 inch	Insertion Loss (Typ.)	0.34	0.44	0.58	0.83	1.41	dB	0.541
PE3650/HS-48	48 inch	Insertion Loss (Typ.)	0.39	0.51	0.71	1.03	1.81	dB	0.669
PE3650/HS-72	72 inch	Insertion Loss (Typ.)	0.48	0.67	0.96	1.45	2.62	dB	0.925
PE3650/HS-108	108 inch	Insertion Loss (Typ.)	0.62	0.9	1.34	2.07	3.82	dB	1.309

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:	0.284 pounds
Additional Weight per Inch:	0.01067 pounds

## Mechanical Specifications

### Cable Assembly

Weight	0.284 lbs [128.82 g]
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### Cable

Cable Type	RG214
Impedance	50 Ohms
Inner Conductor Type	Stranded
Inner Conductor Material and Plating	Copper, Silver
Dielectric Type	PE
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]
Repeated Minimum Bend Radius	1.6 in [40.64 mm]

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#### Connectors

Description	Connector 1	Connector 2
Type	N Female	N Male
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Phosphor Bronze, Gold	Brass, 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
Coupling Nut Material and Plating		Brass, Nickel
Coupling Nut Plating Specification		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:

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### PE3650/HS

#### Typical Performance Data

#### How to Order

Part Number Configuration:

**PE3650/HS**    **- xx**    **uu**

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

Length

Base Number

Example:    PE3650/HS-12 = 12 inches long cable  
              PE3650/HS-100cm = 100 cm long cable

N Female to N Male Cable Using RG214 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.

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 Male Cable Using RG214 Coax with HeatShrink PE3650/HS](#)

URL: <https://www.pasternack.com/n-female-to-n-male-cable-using-rg214-with-heatshrink-pe3650-hs-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.

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