

## N Female to Straight Cut Lead Low PIM Cable Using 1/2 inch Flexible Coax



### RF Cable Assemblies Technical Data Sheet

**PE3C6999**

#### Configuration

- Connector 1: N Female
- Connector 2: Straight Cut Lead
- Cable Type: 1/2" Flexible

#### Features

- Shielding Effectivity > 120 dB
- 88% Phase Velocity
- PE Jacket

#### Applications

- General Purpose
- Laboratory Use
- Low PIM Applications

#### Description

Pasternack's PE3C6999 50 ohm type N female to straight cut lead cable using 1/2 inch flexible coax is part of our full line of RF components available for same-day shipping. Pasternack's corrugated RF cable assemblies are ideal for applications where durability and high power are needed. Our low PIM design also offers excellent passive intermodulation performance.

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
Velocity of Propagation		88		%
RF Shielding	120			dB
Capacitance		23.2 [76.12]		pF/ft [pF/m]
DC Resistance Inner Conductor		0.49 [1.61]		Ω/1000ft [Ω/Km]
DC Resistance Outer Conductor		0.73 [2.4]		Ω/1000ft [Ω/Km]
Jacket Spark			2,000	Vrms

#### Mechanical Specifications

##### Cable Assembly

Weight 0.353 lbs [160.12 g]

##### Cable

Cable Type 1/2" Flexible  
Impedance 50 Ohms

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 Straight Cut Lead Low PIM Cable Using 1/2 inch Flexible Coax PE3C6999](#)



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Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper Clad Aluminum
Dielectric Type	PE (F)
Number of Shields	1
Shield Layer 1	Annular Corrugated Copper Tube
Jacket Material	PE, Black
Jacket Diameter	0.629 in [15.98 mm]
One Time Minimum Bend Radius	2.75 in [69.85 mm]
Repeated Minimum Bend Radius	4.72 in [119.89 mm]
Typical Flex Cycles	15
Tensile Strength	270 lbs [122.47 Kg]

#### Connectors

Description	Connector 1	Connector 2
Type	N Female	Straight Cut Lead
Specification	IEC 60169-16	
Impedance	50 Ohms	0 Ohms
Mating Cycles	500	
Contact Material and Plating	Spring Copper, Silver	
Contact Plating Specification	5 $\mu$ m minimum	
Dielectric Type	PTFE	
Outer Conductor Material and Plating	Brass, Nickel	
Outer Conductor Plating Specification	5 $\mu$ m minimum	
Body Material and Plating	Brass, Tri-Metal	
Body Plating Specification	2 $\mu$ m minimum	

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

#### Plotted and Other Data

Notes:

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Cable Using 1/2 inch Flexible Coax



**RF Cable Assemblies Technical Data Sheet**

**PE3C6999**

**How to Order**

Part Number Configuration:

**PE3C6999**

- **xx**

**uu**

Unit of Measure:  
cm = Centimeters  
<blank> = Inches  
Length  
Base Number

Example: PE3C6999-12 = 12 inches long cable  
PE3C6999-100cm = 100 cm long cable

N Female to Straight Cut Lead Low PIM Cable Using 1/2 inch Flexible 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 Straight Cut Lead Low PIM Cable Using 1/2 inch Flexible Coax PE3C6999](#)

URL: <https://www.pasternack.com/n-female-to-straight-cut-lead-low-pim-cable-using-1-2-inch-flexible-pe3c6999-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.

# PE3C6999 CAD Drawing

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