



## RG174 Non-Magnetic Flexible Coaxial Cable, Single Shielded with Black PVC Jacket

### RF Cables Technical Data Sheet

**RG174NM**

#### Configuration

- Non-Magnetic Flexible Cable
- 1 Shield(s)

#### Features

- Max Frequency 100 MHz
- Magnetic Susceptibility  $10^{-5}$

#### Applications

- General Purpose Test
- Medical
- Quantum Computing
- Custom Cable Assemblies
- Military and Aerospace

#### Description

RG174NM part number from Pasternack is a RG174 non-magnetic coax cable that is flexible. Pasternack flexible coax RF cable has an impedance of 50 Ohm and a PE dielectric. Our RG174 coax cable is constructed with a jacket made of PVC. This black-colored non-magnetic coax cable has a nominal capacitance of 31.7 pF/Ft.

The RG174 coax RF cable has a shield count of 1. Our coax cable from Pasternack has a maximum frequency of 0.1 GHz. Additional specifications for this RG174NM single-shielded RF coaxial cable are on our downloadable PDF datasheet above. This flexible coax RF cable has a minimum bend radius of 15 in along with 0.021 in of center conductor diameter.

Our RG174 coax cable can operate at temperatures ranging from -40 to +105 degrees C. The RG174NM flexible RF cable has a solid copper center conductor. This black-colored flexible RF cable with a 50 Ohm impedance has a typical insertion loss/ maximum attenuation of 12.5 dB/100ft at a frequency of 0.1 GHz.

Pasternack RG174 non-magnetic coax cables are part of over 40,000 RF, microwave, and millimeter wave components. These flexible cables and our other RF parts are available for same-day shipping worldwide. Custom RF cable assemblies using RG174, or other coax can be built and shipped the same business day as well.

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		100	MHz
Impedance		50		Ohms
Nominal Capacitance		31.7 [104]		pF/ft [pF/m]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [RG174 Non-Magnetic Flexible Coaxial Cable, Single Shielded with Black PVC Jacket RG174NM](#)



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**Performance by Frequency Band**

Description	F1	F2	F3	F4	F5	Units
Frequency	100					MHz
Attenuation, Typ	12.5					dB/100ft
	41.01					dB/100m

**Mechanical Specifications**

Min. Bend Radius (Repeated) 1.5 in [38.1 mm]

**Construction Specifications**

Description	Material and Plating	Diameter
Inner Conductor	Copper, 1 Strand	0.021 in [0.53 mm]
Conductor Type	Solid	
Dielectric	PE PE	0.063 in [1.6 mm]
Outer Conductor	Copper 100% coverage	0 in [0 mm]
Jacket	PVC, Black	[ ]

**Environmental Specifications**

**Temperature**

Operating Range -40 to 105 deg C  
Storage Range -40 to 105 deg C

**Environmental Specification Notes:**

All tests performed in accordance with MIL-DTL-17 (current issue)

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

#### Plotted and Other Data

Notes:

RG174 Non-Magnetic Flexible Coaxial Cable, Single Shielded with Black PVC Jacket 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: [RG174 Non-Magnetic Flexible Coaxial Cable, Single Shielded with Black PVC Jacket RG174NM](#)

URL: <https://www.pasternack.com/non-magnetic-flexible-pvc-jacket-single-shielded-rg174nm-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.

