

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

RG174 non-magnetic coax cable from Fairview Microwave is only one of many radio frequency coaxial cable types specifically stocked to be ready for same business day shipment. Fairview Microwave's RG174NM coax cable is manufactured in a flexible design and has a 50 Ohm impedance. This flexible 50 Ohm coax cable is constructed with a PVC jacket.

Fairview Microwave's RG174NM flexible coax cable with a PVC jacket is rated for a 0.1 GHz maximum operating frequency. This 50 Ohm flexible coax cable is built with a shield count of 1. Our non-magnetic RF coaxial cable has a solid conductor of copper. This black-colored coax RF cable has a typical insertion loss/attenuation of 12.5 dB/100ft at a frequency of 100 MHz.

The RG174 coax cable with PE dielectric can operate at temperatures ranging from -40 to +105 degrees C. Additional specifications for this RG174NM single-shielded RF coaxial cable are on our downloadable PDF datasheet above. This flexible 50 Ohm coax cable has 1.5 inches of minimum bend radius along with a nominal capacitance of 31.7 pF/ft.

RG174 non-magnetic RF cable is part of more than one million RF, microwave, and millimeter wave parts in stock at Fairview Microwave. This RG174 coax cable is ready to buy and can be shipped worldwide. Fairview Microwave also maintains a wide selection of other radio frequency and coaxial cable types that ship the same business day from our warehouse in the United States, as with the rest of our other RF/microwave and millimeter wave components.

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	DC		100	MHz
Impedance		50		Ohms
Nominal Capacitance		31.7 [104]		pF/ft [pF/m]

Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	100					MHz
Attenuation, Typ	12.5 41.01					dB/100ft 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 Strands	0.021 in [0.53 mm]
Conductor Type	Solid	
Dielectric	PE	0.063 in [1.6 mm]



Configuration:

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

Features:

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

Applications:

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

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	PE	
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)

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

Plotted and Other Data

Notes:

RG174 Non-Magnetic Flexible Coaxial Bulk Cable, Single Shielded with Black PVC Jacket from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [RG174 Non-Magnetic Flexible Coaxial Bulk Cable, Single Shielded with Black PVC Jacket RG174NM-BULK-FM](#)

URL: <https://www.fairviewmicrowave.com/non-magnetic-flexible-coax-cable-pvc-jacket-rg174nm-bulk-fm-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. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.

