

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



RG174NM-LC

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

L-com's RG174NM is a non-magnetic coaxial cable, with an impedance of 50 Ohms. This RF coax cable has an outer diameter of 0.114 inches, along with a center conductor diameter of 0.021 inches. Our non-magnetic coax cable is manufactured in a flexible design with a PVC jacket. This 50 Ohm flexible coax cable is built with a shield count of 1 and is rated for a 0.1 GHz maximum operating frequency.

The flexible 50 Ohm coax cable from L-com has 1.5 inches of minimum bend radius along with nominal capacitance of 31.7 pF/ft. This RG174 coax cable with PE dielectric can operate at temperatures ranging from -40 to +105 degrees C. Our RG174NM 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.

L-com has the largest in-stock selection of non-magnetic coaxial cable with same business day shipment for local, domestic and international orders. Make your online purchase right now to take advantage of our same business day shipping. For further information on similar products, our expert technical support and knowledgeable sales team can help you get the RF coaxial cable with PVC jacket for your requirements.

Electrical Specifications

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

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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 Strands Strand(s)	0.021in 0.53mm
Conductor Type	Solid	
Dielectric	PE	0.063in [1.6mm]
	PE	
Outer Conductor	Copper	0 in 0 mm
	100% coverage	
Jacket	PVC, Black	□

Environmental Specifications

Temperature

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

RG174 Non-Magnetic Flexible Coaxial Cable, Single Shielded with Black PVC Jacket from L-com has same day shipment for domestic and International orders. Our portfolio includes coaxial cable assemblies, connectors, adapters and custom products as well as lightning and surge protectors, NEMA rated enclosures, and an RF product line which includes antennas, amplifiers, passive, and active

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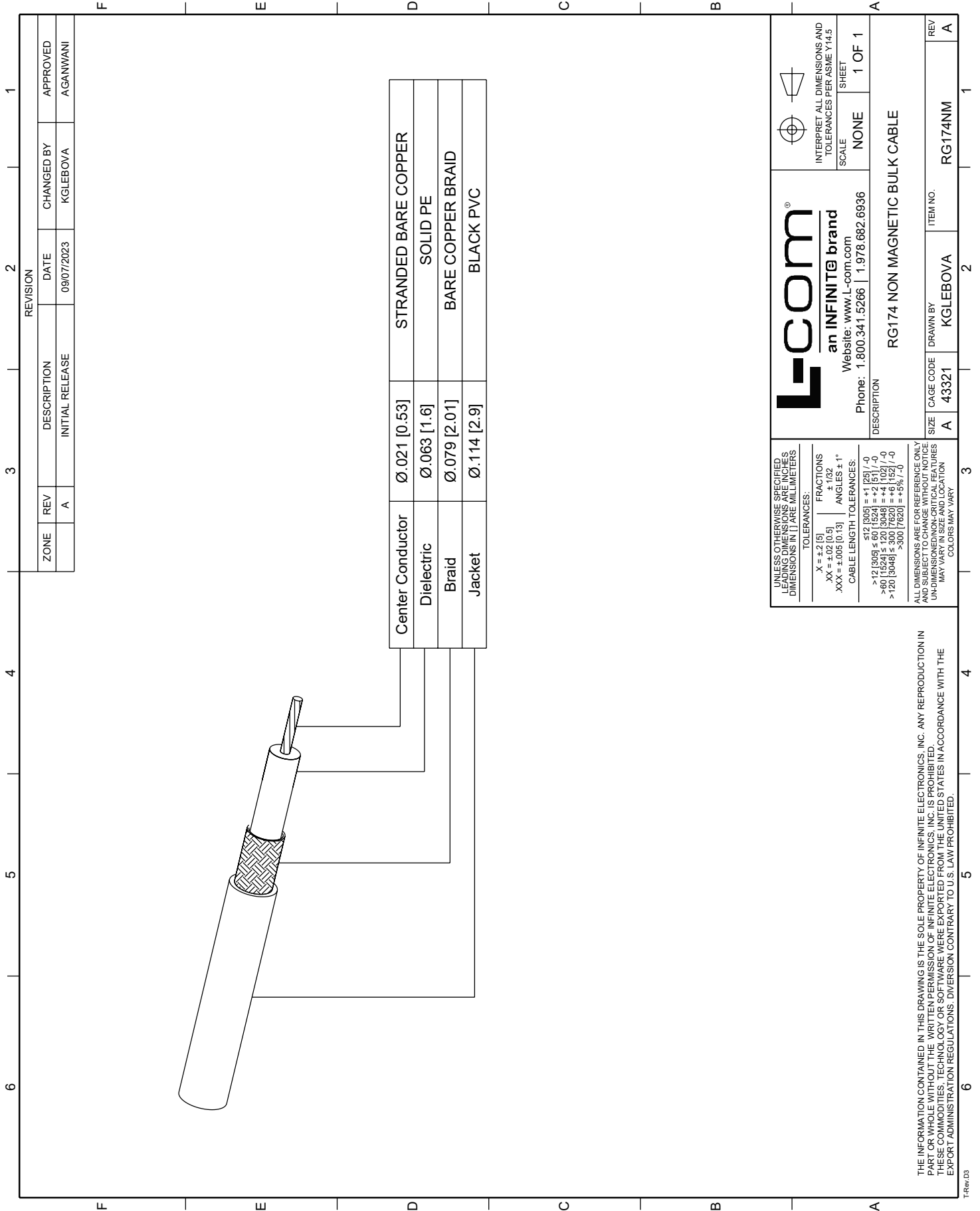


RG174NM-LC

components.

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 impliment improvements. L-com reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. L-com does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and L-com does not assume liability arising out of the use of any part or document.

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L-com an INFINITE brand Website: www.L-com.com Phone: 1.800.341.5266 1.978.682.6936		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE NONE SHEET 1 OF 1
DESCRIPTION RG174 NON MAGNETIC BULK CABLE		
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS TOLERANCES: X = ±.2 [5] .XX = ±.02 [0.5] .XXX = ±.005 [0.13] ANGLES ± 1° CABLE LENGTH TOLERANCES: ≤ 12 [305] = ± 1 [25] / -0 > 12 [305] ≤ 60 [1524] = ± 2 [51] / -0 > 60 [1524] ≤ 120 [3048] = ± 4 [102] / -0 > 120 [3048] ≤ 300 [7620] = ± 6 [152] / -0 > 300 [7620] = ± 9 [229] / -0 ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE UNLESS OTHERWISE SPECIFIED. UNITS MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.	REV A APPROVED A GANWANI CHANGED BY KGLEBOVA DATE 09/07/2023 INITIAL RELEASE	
SIZE A CAGE CODE 43321 DRAWN BY KGLEBOVA ITEM NO. RG174NM	REV A APPROVED A GANWANI CHANGED BY KGLEBOVA DATE 09/07/2023 INITIAL RELEASE	SHEET 1 OF 1