

0.141 Formable Non-Magnetic Cable with Silver Plated Copper Conductor



LC141FMNM

Configuration

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

Features

- Max Frequency 34 GHz
- Magnetic Susceptibility 10⁻⁵

Applications

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

Description

L-com's 0.141 semi-rigid non-magnetic cable uses series coaxial is available for same-day shipping from our facility. LC141FMNM cables from L-com are great choices for solutions requiring high quality and rapid shipping. Our non-magnetic RF cable has a 50 Ohm impedance and is rated for a 34 GHz maximum operating frequency. This high-quality cable is part of a large selection of in-stock, commercial-off-the-shelf, and custom-built coaxial cable assemblies for RF and microwave that all ship the same business day as they are ordered.

These formable RF cable assemblies are built with RF shielding of 90 dB and have a cable weight of 1.32 lbs/ft. Our RF coaxial cable has a 0.036-inch SPC (silver-plated copper) conductor and a bending moment of 0.375 lbs-ft. The coaxial RF cable has a maximum attenuation of 109.02 dB/100ft at a frequency of 26.5 GHz.

The technical performance specifications of this 34 GHz cable are located on the LC141FMNM datasheet PDF, along with a CAD drawing and dimensions. Our non-magnetic RF cable has a PTFE dielectric type. This RF non-magnetic cable has a copper-tin composite outer conductor and a maximum operating temperature of 125 deg C. The L-com 0.141 semi-rigid RF cable assembly data sheet with specs and drawing dimensions can be found on this product page just above.

0.141 semi-rigid non-magnetic cable is one of a large selection of in-stock RF products available. L-com not only has this off-the-shelf but also custom versions of our cable assemblies are available for same-day shipping, we have thousands of other products that have same day shipping. Our expert technical support and knowledgeable sales teams are ready to help and answer your RF coaxial cable assembly questions.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		34	GHz
Impedance		50		Ohms
Velocity of Propagation		70		%
Shielding Effectiveness	90			dB
Operating Voltage (AC)			5,000	Vrms

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Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	5	10	18	GHz
Attenuation, Typ	11.2	16.2	39.2	59.4	85.2	dB/100ft
	36.75	53.15	128.61	194.88	279.53	dB/100m

Description	F6	F7	F8	F9	F10	Units
Frequency	26.5	40				GHz
Attenuation, Typ	109.2	142.9				dB/100ft
	358.27	468.83				dB/100m

Mechanical Specifications

Min. Bend Radius (Repeated) 0.375 in [9.53 mm]

Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Silver Plated Copper , 1 Strands Strand(s)	0.036in 0.91mm
Conductor Type	Solid	
Dielectric	PTFE	0.117in [2.97mm]
	PTFE	
Outer Conductor	Copper-Tin Composite	0.141 in 3.58 mm
	100% coverage	
Jacket	Copper	∅

Environmental Specifications

Temperature
 Operating Range -55deg C to +200deg C
 Storage Range -55deg C to +200deg C

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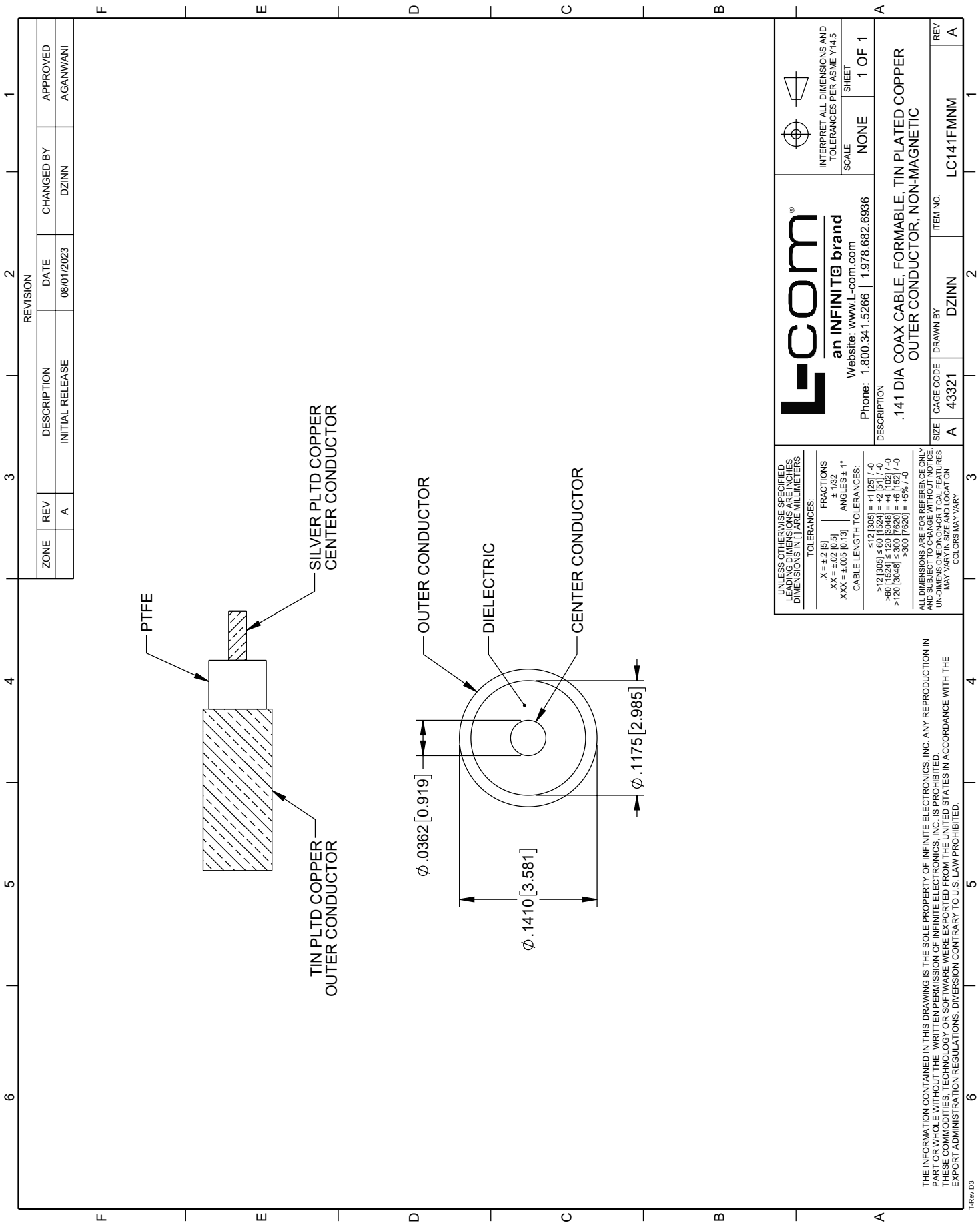
Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

0.141 Formable Non-Magnetic Cable with Silver Plated Copper Conductor 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 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 implement 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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REVISION			
ZONE	REV	DESCRIPTION	DATE
	A	INITIAL RELEASE	08/01/2023
		CHANGED BY	DZINN
		APPROVED	AGANWANI

 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: .141 DIA COAX CABLE; FORMABLE; TIN PLATED COPPER OUTER CONDUCTOR, NON-MAGNETIC
SIZE: A CAGE CODE: 43321 DRAWN BY: DZINN	ITEM NO.: LC141FMNM REV: A

UNLESS OTHERWISE SPECIFIED, DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:

.X = ±.2 (5)	FRACTIONS
.XX = ±.02 (0.5)	± 1/32
.XXX = ±.005 (0.13)	ANGLES ± 1°

CABLE LENGTH TOLERANCES:

≤ 12 [305]	± .1 [25]
> 12 [305] ≤ 60 [1524]	± .2 [51]
> 60 [1524] ≤ 120 [3048]	± .4 [102]
> 120 [3048] ≤ 300 [7620]	± .8 [20]
> 300 [7620]	± 1.6 [41]

ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE. UNITS MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.

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