

100 ohm Twinaxial Cable, 0.149 inches Outside Diameter with Modified FEP Jacket



0024A0024-9X-LC

Configuration

- Flexible Cable

Features

- MIL-STD-1553
- -65°C to +200°C
- 100 ohms

Applications

- MIL-STD-1553
- Data

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		400	MHz
Impedance		100		Ohms
Operating Voltage (AC)			1,000	Vrms
Nominal Capacitance		13.5 [44.29]		pF/ft [pF/m]

Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	1	10	50	100	200	MHz
Attenuation, Typ	0.3	1.2	2.8	4.1	6.4	dB/100ft
	0.98	3.94	9.19	13.45	21	dB/100m

Description	F6	F7	F8	F9	F10	Units
Frequency	400					MHz
Attenuation, Typ	10.2					dB/100ft
	33.46					dB/100m

Mechanical Specifications

Min. Bend Radius (Installation) 1.788 in [45.42 mm]

Construction Specifications

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Description	Material and Plating	Diameter
Inner Conductor	Copper, Silver , 1 Strands Strand(s)	0.025in 0.64mm
Conductor Type	Stranded	
Dielectric	Rayfoam H	
First Shield	Silver Plated Copper Alloy Braid	
Jacket	Modified FEP, White	∅

Environmental Specifications

Temperature

Operating Range

-65deg C to +200deg C

Storage Range

-65deg C to +200deg C

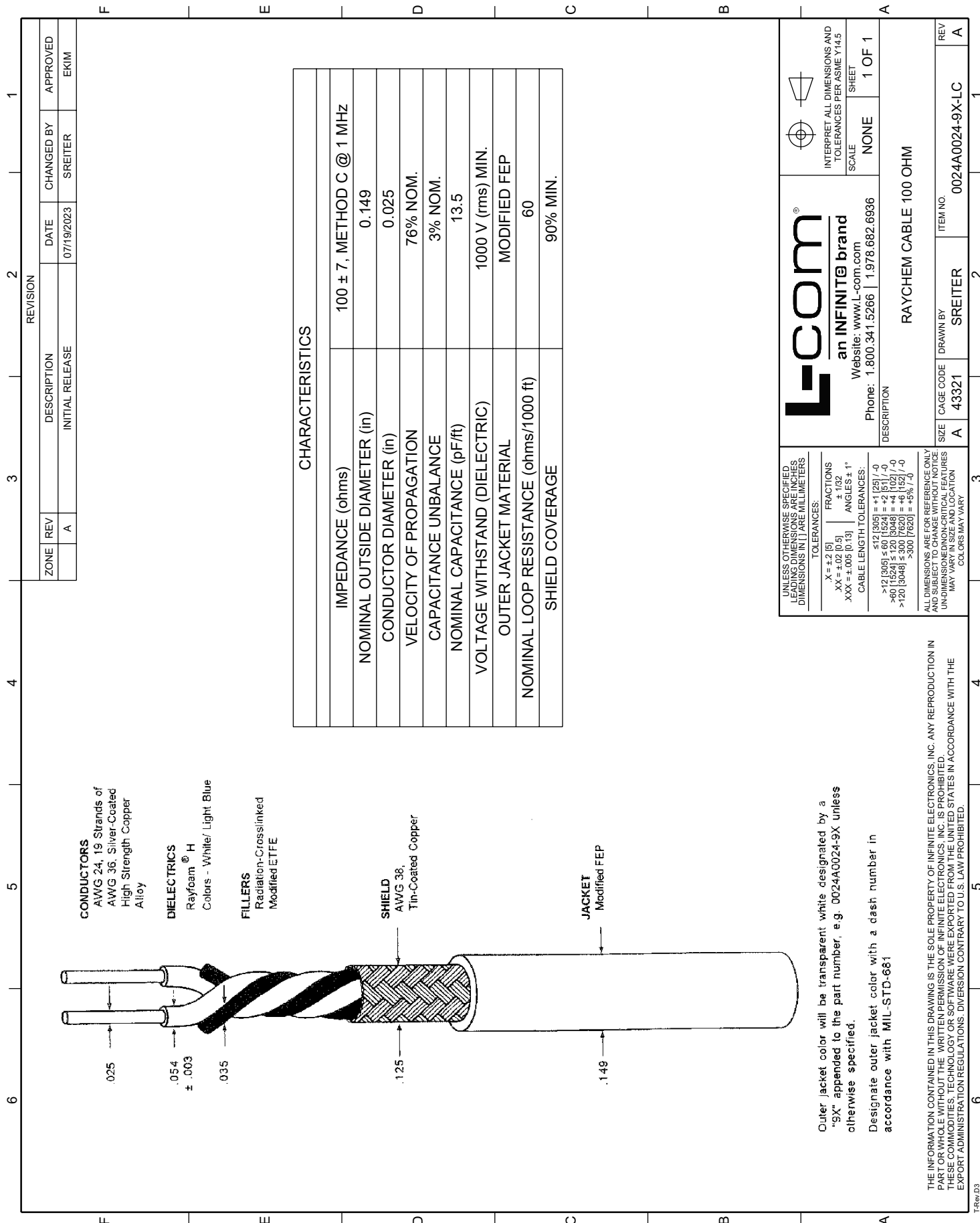
Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

100 ohm Twinaxial Cable, 0.149 inches Outside Diameter with Modified FEP 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 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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CHARACTERISTICS

IMPEDANCE (ohms)	100 ± 7, METHOD C @ 1 MHz
NOMINAL OUTSIDE DIAMETER (in)	0.149
CONDUCTOR DIAMETER (in)	0.025
VELOCITY OF PROPAGATION	76% NOM.
CAPACITANCE UNBALANCE	3% NOM.
NOMINAL CAPACITANCE (pF/ft)	13.5
VOLTAGE WITHSTAND (DIELECTRIC)	1000 V (rms) MIN.
OUTER JACKET MATERIAL	MODIFIED FEP
NOMINAL LOOP RESISTANCE (ohms/1000 ft)	60
SHIELD COVERAGE	90% MIN.

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
UNLESS OTHERWISE SPECIFIED, DIMENSIONS IN [] ARE 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) = ±8 (20) / -0 >300 (7620) = ±5% (1.3)		
ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE. DIMENSIONS MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.		
DESCRIPTION RAYCHEM CABLE 100 OHM	DRAWN BY SREITER	ITEM NO. 0024A0024-9X-LC
SIZE A	CAGE CODE 43321	REV A

Outer jacket color will be transparent white designated by a "9X" appended to the part number, e.g. 0024A0024-9X unless otherwise specified.

Designate outer jacket color with a dash number in accordance with MIL-STD-681

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