

78 ohm High Temperature Twinaxial Cable, 0.129 inches
Outside Diameter with PFA Jacket



M17/176-00002-LC

Configuration

- Flexible Cable

Features

- MIL-STD-1553
- 55°C to +200°C
- 78 ohms

Applications

- Vehicle High Temperature
- Data
- MIL-STD-1553

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Impedance		77		Ohms
Operating Voltage (AC)			750,000	Vrms
Nominal Capacitance		24 [78.74]		pF/ft [pF/m]

Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	1	3	10			MHz
Attenuation, Typ	1.4	2.1	4.5			dB/100ft
	4.59	6.89	14.76			dB/100m

Mechanical Specifications

Diameter	0.129 in [3.28 mm]
Weight	0.018 lbs/ft [0.03 kg/m]
Min. Bend Radius (Installation)	1.5 in [38.1 mm]

Construction Specifications

Description	Material and Plating	Diameter
Dielectric	PTFE	0.042in 1.07mm
Jacket	PFA, Blue	0.129in [3.28mm]

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Environmental Specifications

Temperature

Operating Range

-55deg C to +200deg C

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

Plotted and Other Data

78 ohm High Temperature Twinaxial Cable, 0.129 inches Outside Diameter with PFA 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 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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F		E		D		C		B		A																					
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		A		INITIAL RELEASE		07/18/2023		SREITER		EKIM																					
REVISION																															
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TWINAXIAL CABLE CHARACTERISTICS <table><tr><td>NOMINAL IMPEDANCE (ohms)</td><td>77 ± 7</td></tr><tr><td>NOMINAL OUTSIDE DIAMETER (in)</td><td>0.129</td></tr><tr><td>CONDUCTOR DIAMETER (in)</td><td>0.024</td></tr><tr><td>OPERATING TEMPERATURE RANGE</td><td>-55 °C TO +200 °C</td></tr><tr><td>MINIMUM BEND RADIUS (in)</td><td>1.50</td></tr><tr><td>NOMINAL CAPACITANCE (pF/ft)</td><td>24</td></tr><tr><td>OUTER JACKET MATERIAL</td><td>PFA</td></tr><tr><td>INSULATION MATERIAL</td><td>PTFE</td></tr><tr><td>SHIELD COVERAGE</td><td>93%</td></tr><tr><td>ATTENUATION (dB/100 ft)</td><td>1.40 @ 1 MHz 4.50 MAX @ 10 MHz</td></tr></table>												NOMINAL IMPEDANCE (ohms)	77 ± 7	NOMINAL OUTSIDE DIAMETER (in)	0.129	CONDUCTOR DIAMETER (in)	0.024	OPERATING TEMPERATURE RANGE	-55 °C TO +200 °C	MINIMUM BEND RADIUS (in)	1.50	NOMINAL CAPACITANCE (pF/ft)	24	OUTER JACKET MATERIAL	PFA	INSULATION MATERIAL	PTFE	SHIELD COVERAGE	93%	ATTENUATION (dB/100 ft)	1.40 @ 1 MHz 4.50 MAX @ 10 MHz
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UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES. DIMENSIONS IN [] ARE MILLIMETERS.																															
TOLERANCES:																															
X = ± 0.015																															
XX = ± 0.010																															
XXX = ± 0.005																															
FRACTIONS: ± 1/32																															
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 [254] / - 0																															
> 300 [7620] = ± 16 [508] / - 0																															
ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNLESS OTHERWISE SPECIFIED, DIMENSIONS MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.																															
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INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE

SHEET: 1 OF 1

DESCRIPTION

TWINAX CABLE 78 OHM HIGH TEMP

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	43321	SREITER	M17/176-00002-LC	A