

78 ohm Twinaxial Cable, 0.242 inches Outside Diameter with HF POF Jacket



TWCH-78-2-LC

Configuration

- Flexible Cable

Features

- MIL-STD-1553
- -30°C to +80°C
- 78 ohms
- Halogen Free
- Non-Toxic

Applications

- Military Contractors
- MIL-STD-1553
- Data
- Safer Enviroments
- Ventilation critical areas

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Impedance		78		Ohms
Operating Voltage (AC)			1,000	Vrms
Operating Voltage (DC)			2,000	Vdc
Nominal Capacitance		21.2 [69.55]		pF/ft [pF/m]

Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	1	10	50	100	200	MHz
Attenuation, Typ	0.7	2.2	5.1	7.5	10.5	dB/100ft dB/100m
	2.3	7.22	16.73	24.61	34.45	

Description	F6	F7	F8	F9	F10	Units
Frequency	500	1,000				MHz
Attenuation, Typ	16	22.5				dB/100ft dB/100m
	52.49	73.82				

Mechanical Specifications

- Diameter 0.242 in [6.15 mm]
- Min. Bend Radius (Installation) 1.25 in [31.75 mm]

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Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Tinned Copper , 2 Strands Strand(s)	
Dielectric	PE	0.072in 1.83mm
First Shield	Tinned Copper Braid, 36 AWG	
Jacket	HF POF, Blue	0.242in [6.15mm]

Environmental Specifications

Temperature

Operating Range

-30deg C to +80deg C

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

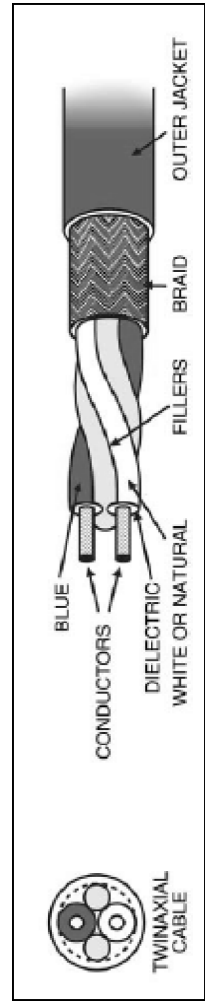
Plotted and Other Data

78 ohm Twinaxial Cable, 0.242 inches Outside Diameter with HF POF 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.

ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	A	INITIAL RELEASE	07/19/2023	SREITER	EKIM

1 2 3 4 5 6



CHARACTERISTICS	
NOMINAL IMPEDANCE (ohms)	78 ± 3
NOMINAL OUTSIDE DIAMETER (in)	0.242
CONDUCTOR DIAMETER (in)	0.037
OPERATING TEMPERATURE RANGE	-30°C TO +80°C
MINIMUM BEND RADIUS (in)	1.25
MAX. CAPACITANCE (pF/ft)	21.2
OUTER JACKET MATERIAL	HF POF
INSULATION MATERIAL	PE
SHIELD COVERAGE	93%
ATTENUATION (dB/100 ft)	0.70 @ 1 MHz
	2.20 @ 10 MHz

L-com
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INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5
SCALE NONE SHEET 1 OF 1

UNLESS OTHERWISE SPECIFIED, DIMENSIONS IN [] ARE MILLIMETERS

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

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 (203) / -0
> 300 (7620)	± 16 (406) / -0

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

DESCRIPTION
TWINAX CABLE 78 OHM .242" O.D. HALOGEN FREE

ITEM NO. TWCH-78-2-LC
DRAWN BY SREITER
CAGE CODE A 43321
REV A

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