

LCCA9878/WP

Configuration

Connector 1: 7/16 DIN Male
Connector 2: N Male
Cable Type: SPO-250
Coax Flex Type: Flexible

Features

- Max Frequency 6 GHz
- Low PIM: -160 dBc Max
- · 83% Phase Velocity
- · PE Jacket
- · Silicone Connector Boot
- IP68 Rated

Description

The L-com LCCA9878/WP is a weatherproof low loss cable assembly that comes with 7/16 DIN male connection with weatherproof boot on one end and type N male with weatherproof boot on the other. L-com's RF coaxial cable assembly products are designed for typical use, production, laboratory test and measurement, defense/military, aerial antenna towers, etc. The low loss cable has a 50 Ohm impedance and is specifically ready for quicker shipment than most in the industry can provide.

This weatherproof low loss RF cable assembly operates at a maximum frequency of 6 GHz. Our RF cable assembly has a PE jacket with 0.303 inches diameter. The 7/16 DIN male to type N male cable assembly LCCA9878/WP is built with SPO-250 coax, which has a flexible design. This RF cable assembly with 0.5 inches diameter has copper clad aluminum as cable's inner conducting material and foam PE dielectric type. The weatherproof boot low loss cable can operate at a temperature range of -40 to 85 degrees C. Additional dimensions, specifications, and CAD drawings for this LCCA9878/WP low loss RF cable are available on our downloadable PDF datasheet.

L-com stocks a wide selection of weatherproof low loss cable assemblies that ship the same business day as ordered from our warehouse. Make your online purchase right now to take advantage of our same-day shipping. For further information on similar products, our expert technical support and knowledgeable sales team can help you get the ideal 7/16 DIN male to type N male cable assembly as per your requirements.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units			
Frequency Range	DC		6	GHz			
VSWR			1.4:1				
Velocity of Propagation		83		%			
Passive Intermodulation			-160	dBc			
IM3 (2x43dBm Tones) at 850 MHz or 1900 MHz							
Capacitance		24 [78.74]		pF/ft [pF/m]			
Inductance		0.054 [0.18]		uH/ft [uH/m]			

Specifications by Frequency





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Part Number	Length	Description	F1	F2	F3	F4	Units	Weight (lbs)
		Frequency	500	1000	2500	6000	MHz	
LCCA9878/WP	Custom Lengths	Insertion Loss (Typ.)	0.028	0.041	0.068	0.108	dB/ft	
LCCA36787WF	Available		0.1	0.14	0.23	0.36	dB/m	
LCCA9878/WP-FT1	12 ln	Insertion Loss (Typ.)	0.17	0.25	0.39	0.6	dB	0.798
LCCA9878/WP-FT2	24 In	Insertion Loss (Typ.)	0.2	0.29	0.46	0.71	dB	0.845
LCCA9878/WP-FT3	36 In	Insertion Loss (Typ.)	0.23	0.33	0.53	0.82	dB	0.892
LCCA9878/WP-FT5	60 In	Insertion Loss (Typ.)	0.29	0.41	0.66	1.03	dB	0.986
LCCA9878/WP-M0.5	50 CM	Insertion Loss (Typ.)	0.19	0.27	0.43	0.67	dB	0.829

The insertion loss data for the base model does not include loss due to the connectors. Each length includes insertion loss due to the connectors.

Loss due to Connector 1: 0.1*SQRT(FGHz) dB
Loss due to Connector 2: 0.1*SQRT(FGHz) dB
Base Weight: 0.798 pounds
Additional Weight per Inch: 0.00391 pounds

Mechanical Specifications

Cable Assembly

 Width/Diameter
 0.5 in [12.7 mm]

 Weight
 0.798 lbs [361.97 g]

Cable

Cable TypeSPO-250Impedance50 OhmsInner Conductor TypeStranded

Inner Conductor Material and Plating Copper Clad Aluminum

Dielectric Type Foam PE

Outer Conductor 1 Material and Plating Copper, Corrugated

PΕ

Jacket Material

Jacket Diameter0.303 in [7.7 mm]One Time Minimum Bend Radius1 in [25.4 mm]

One Time Minimum Bend Radius 1 in [25.4 mm]
Bending Moment 0.5 lbs-ft [0.68 N-m]





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Connectors

Description	Connector 1	Connector 2		
Туре	7/16 DIN Male	N Male		
Option	Weatherproof Boot	Weatherproof Boot		
Impedance	50 Ohms	50 Ohms		
Configuration	Straight	Straight		
Contact Material and Plating	Brass, Silver	Phosphor Bronze, Silver		
Contact Plating Specification	196 µin minimum	196 µin minimum		
Dielectric Type	PTFE	PTFE		
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal		
Body Plating Specification	118 µin minimum	118 µin minimum		
Coupling Nut Material and Plating	Brass, Nickel	Brass, Tri-Metal		
Coupling Nut Plating Specification	118 µin minimum	118 µin minimum		
Boot Material	Silicone	Silicone		

-40 to +85 deg C

Environmental Specifications

Operating Range Temperature Ingress Protection (IP) Rating

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Values at 25°C, sea level.





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Typical Performance Data

How to Order

Part Number Configuration:

LCCA9878/WP - xx uu

Unit of Measure:
cm = Centimeters

Length
Base Number

Example: LCCA9878/WP-12 = 12 inches long cable LCCA9878/WP-100cm = 100 cm long cable

Low Loss 7/16 DIN Male to N Male Weatherproof Cable Assembly with Silicone using SPO-250 Coax with Times Microwave Components 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.

URL: https://www.l-com.com/7-16-din-male-n-male-cable-lcca9878-wp-p.aspx

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.

LCCA9878/WP CAD Drawing

Low Loss 7/16 DIN Male to N Male Weatherproof Cable Assembly with Silicone using SPO-250 Coax with Times Microwave Components

