

LCCA31017/WP-FT2

Configuration

· Connector 1: N Male Right Angle

Connector 2: N MaleCable Type: SPO-250Coax Flex Type: Flexible

Features

· Silicone Connector Boot

· IP68 Rated

Description

L-com's LCCA31017/WP-FT2 is a low loss N male right angle to N male weatherproof cable assembly with silicone using SPO-250 coax, 2 FT with Times Microwave components and ships same-day. The SPO-250 coax of this N cable uses the foam PE dielectric with a VoP of 83%, resulting in very low insertion loss compared to solid dielectrics. These flexible RF cable assemblies are ideal for applications where flexure is required. Our L-com N to N cable assembly has a male to male gender configuration with flexible SPO-250 series coax and operates to 6 GHz. This right angle N cable interface on the SPO-250 coax allows for easier connections in tight spaces.

Custom versions of this N male to N male cable, along with the rest of L-com's other RF assemblies, can also be built and shipped same day. Other available RF cable assembly value added services from L-com include connector orientation or clocking, heat shrink booting and custom labeling. RF testing can also be performed to document the electrical performance of your cable assembly. Contact a sales representative for testing or custom RF cable quotes. Part number LCCA31017/WP-FT2 L-com Low Loss N Male Right Angle to N Male Weatherproof Cable Assembly with Silicone using SPO-250 Coax, 2 FT with Times Microwave Components data sheet PDF includes details of the RF product specifications, CAD drawing(s) and dimensions below.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units		
Frequency Range	DC		6	GHz		
VSWR			1.4:1			
Velocity of Propagation		83	33 %			
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	weight (ins)	
LCCA31017/WP	Custom Lengths	Insertion Loss (Typ.)	0.057	0.041	0.068	0.108	dB/ft		
ECCASIO1//WF	Available	ilisertion Loss (Typ.)	0.19	0.14	0.23	0.36	dB/m		
LCCA31017/WP-FT2	24 In	Insertion Loss (Typ.)	0.2	0.29	0.46	0.71	dB	0.82	
LCCA31017/WP-FT3	36 In	Insertion Loss (Typ.)	0.23	0.33	0.53	0.82	dB	0.867	
LCCA31017/WP-FT5	60 In	Insertion Loss (Typ.)	0.29	0.41	0.66	1.03	dB	0.961	
LCCA31017/WP-M0.5	50 CM	Insertion Loss (Typ.)	0.19	0.27	0.43	0.67	dB	0.804	

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: 0.773 pounds
Additional Weight per Inch: 0.00391 pounds

Mechanical Specifications

Cable Assembly

 Length
 24 in [609.6 mm]

 Width/Diameter
 0.5 in [12.7 mm]

 Weight
 0.82 lbs [371.95 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

Jacket Material PE

Jacket Diameter0.303 in [7.7 mm]One Time Minimum Bend Radius1 in [25.4 mm]Bending Moment0.5 lbs-ft [0.68 N-m]





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Connectors

Description	Connector 1	Connector 2		
Туре	N Male Right Angle	N Male		
Option		Weatherproof Boot		
Impedance	50 Ohms	50 Ohms		
Configuration	Right Angle	Straight		
Contact Material and Plating	Brass, Silver	Phosphor Bronze, Silver		
Contact Plating Specification	200 μin minimum	196 µin minimum		
Dielectric Type	PTFE	PTFE		
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal		
Body Plating Specification	80 μin minimum	118 µin minimum		
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal		
Coupling Nut Plating Specification	80 μin minimum 118 μin minimum			
Boot Material	Silicone	Silicone		

Environmental Specifications

Operating Range Temperature -40 to +85 deg C Ingress Protection (IP) Rating IP68

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Values at 25°C, sea level.





LCCA31017/WP-FT2

Typical Performance Data

How to Order

Part Number Configuration:

LCCA31017/WP - xx uu

Unit of Measure:
cm = Centimeters

Length
Base Number

Example: LCCA31017/WP-12 = 12 inches long cable LCCA31017/WP-100cm = 100 cm long cable

Low Loss N Male Right Angle to N Male Weatherproof Cable Assembly with Silicone using SPO-250 Coax, 2 FT 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/n-male-n-male-cable-assembly-lcca31017-wp-ft2-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.

LCCA31017/WP-FT2 CAD Drawing

Low Loss N Male Right Angle to N Male Weatherproof Cable Assembly with Silicone using SPO-250 Coax, 2 FT with Times Microwave Components

