

## Low Loss 7/16 DIN Male to N Male Weatherproof Cable Assembly with Silicone using SPO-250 Coax, 5 FT with Times Microwave Components



### LCCA9878/WP-FT5

#### Configuration

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

#### Features

- Silicone Connector Boot
- IP68 Rated

#### Description

L-com's LCCA9878/WP-FT5 is a low loss 7/16 DIN male to N male weatherproof cable assembly with silicone using SPO-250 coax, 5 FT with Times Microwave components and ships same-day. The SPO-250 coax of this 7/16 DIN 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 7/16 DIN to N cable assembly has a male to male gender configuration with flexible SPO-250 series coax and operates to 6 GHz.

Custom versions of this 7/16 DIN male to 7/16 DIN 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 LCCA9878/WP-FT5 L-com Low Loss 7/16 DIN Male to N Male Weatherproof Cable Assembly with Silicone using SPO-250 Coax, 5 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		%
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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**LCCA9878/WP-FT5**

Part Number	Length	Description	F1	F2	F3	F4	Units	Weight (lbs)
		Frequency	250	500	1000	2500	MHz	
LCCA9878/WP	Custom Lengths Available	Insertion Loss (Typ.)	0.028	0.041	0.068	0.108	dB/ft	
			0.1	0.14	0.23	0.36	dB/m	
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-FT4	48 In	Insertion Loss (Typ.)	0.29	0.2	0.66	1.03	dB	0.986
LCCA9878/WP-FT5	60 In	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**

Length 60 in [152.4 cm]  
 Width/Diameter .5 in [12.7 mm]  
 Weight 0.986 lbs [447.24 g]

**Cable**

Cable Type SPO-250  
 Impedance 50 Ohms  
 Inner Conductor Type Stranded  
 Inner Conductor Material and Plating Copper Clad Aluminum  
 Dielectric Type Foam PE  
 Outer Conductor 1 Material and Plating Copper, Corrugated  
 Jacket Material PE  
 Jacket Diameter 0.303 in [7.7 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
Type	7/16 DIN Male	N Male
Option		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

### 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.

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## LCCA9878/WP-FT5

### Typical Performance Data

### How to Order

Part Number Configuration:

**LCCA9878/WP**

**- xx**

**uu**

Unit of Measure:

cm = Centimeters

<blank> = Inches

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, 5 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/7-16-din-male-n-male-cable-lcca9878-wp-ft5-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 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.

LCCA9878/WP-FT5 CAD Drawing

Low Loss 7/16 DIN Male to N Male Weatherproof Cable Assembly with Silicone using SPO-250 Coax, 5 FT with Times Microwave Components

