Low Loss 7/16 DIN Female to N Male Weatherproof Cable Assembly with Silicone using SPO-250 Coax, 3 FT with Times Microwave Components

LCCA9880/WP-FT3

Configuration

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

Features

- Silicone Connector Boot
- IP68 Rated

Description

L-com's LCCA9880/WP-FT3 is a low loss 7/16 DIN female to N male weatherproof cable assembly with silicone using SPO-250 coax, 3 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 female to male gender configuration with flexible SPO-250 series coax and operates to 6 GHz.

Custom versions of this 7/16 DIN female 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 LCCA9880/WP-FT3 L-com Low Loss 7/16 DIN Female to N Male Weatherproof Cable Assembly with Silicone using SPO-250 Coax, 3 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 IM3 (2x43dBm Tones) at 850 MHz or 1900 MHz			-160	dBc
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	
LCCA9880/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	
LCCA9880/WP-FT2	24 In	Insertion Loss (Typ.)	0.23	0.29	0.4	0.57	dB	0.826
LCCA9880/WP-FT3	36 In	Insertion Loss (Typ.)	0.26	0.33	0.47	0.67	dB	0.873
LCCA9880/WP-FT5	60 In	Insertion Loss (Typ.)	0.32	0.2	0.6	0.89	dB	0.967
LCCA9880/WP-M0.5	50 CM	Insertion Loss (Typ.)	0.22	0.27	0.37	0.53	dB	0.81

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	dB
Loss due to Connector 2:	0.1*SQRT(FGHz)	dB
Base Weight:	0.779	pounds
Additional Weight per Inch:	0.00391	pounds

Mechanical Specifications

Cable Assembly

Length	36 in [914.4 mm]
Width/Diameter	0.5 in [12.7 mm]
Weight	0.873 lbs [395.99 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 Female	N Male
Option		Weatherproof Boot
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Phosphor Bronze, Silver	Phosphor Bronze, Silver
Contact Plating Specification	200 µin minimum	196 µin minimum
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating	Brass, Tri-Metal	
Outer Conductor Plating Specification	100 µin minimum	
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Specification	100 µin minimum	118 µin minimum
Coupling Nut Material and Plating		Brass, Tri-Metal
Coupling Nut Plating Specification		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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Typical Performance Data

How to Order

Part Number Configuration: **LCCA9880/WP - xx uu**

- uu — Unit of Measure:
  - cm = Centimeters
  - <blank> = Inches
- xx — Length
- LCCA9880/WP — Base Number

Example: LCCA9880/WP-12 = 12 inches long cable
LCCA9880/WP-100cm = 100 cm long cable

Low Loss 7/16 DIN Female to N Male Weatherproof Cable Assembly with Silicone using SPO-250 Coax, 3 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-female-n-male-cable-lcca9880-wp-ft3-p.aspx

LCCA9880/WP-FT3 CAD Drawing

Low Loss 7/16 DIN Female to N Male Weatherproof Cable Assembly with Silicone using SPO-250 Coax, 3 FT with Times Microwave Components